

PRICE CHANGE

Effective 1st August 2021, pricing for selected product groups have been revised. Please refer to the Index pages 1 - 23 of this price book for the updated pricing.



INNOVATION

Malaysia Price List

August 2021

For electrical distribution, industrial automation and control

www.se.com/my




Life Is On

Schneider
Electric

Standard Lead Time

The delivery lead time starts from the order entry in our system to delivery at customer's door

STOCK ITEMS in Malaysia

Delivery to	Lead time*	
West Malaysia		
Within Klang Valley	D + 2	
Outside Klang Valley	D + 3	
East Malaysia		
Kuching	D + 14	D + 5
Kota Kinabalu	D + 16	D + 5
Sibu	D + 15	D + 7
Miri	D + 20	D + 7
Tawau	D + 22	D + 7

* Lead times are in **working days**

* D refers to the order booking day

* Lead time for Large Order Quantity (LOQ) may be extended (refer to mySE)



** Default shipment by Sea freight

*** Air shipment (upon request) is subject to surcharge

NON-STOCK ITEMS (INDENT) in Malaysia

Refer to mySE, logistic catalogue file or contact CCC for lead time information

Express Delivery

	STOCK ITEM	NON-STOCK ITEMS (INDENT)
Mode		
Lead time	West Malaysia: D+1 for order before 12PM	Based on the supplier location and stock availability
Order via	Email PO to CCC and indicate "Express delivery"	
Fee	RM 100 per PO	Air freight cost (advised by CCC)

Sales Tax Exemption

If you are **registered manufacturer**, we can offer sales tax exemption services under **Item 3 Schedule C**. Contact our sales representative or CCC for more information

If you are **trading company selling to registered manufacturer**, you can purchase from Schneider Electric Overseas Asia Pte Ltd under FCA Singapore Incoterm (delivery in Singapore). Contact our sales representative or CCC for more information

Short Forms:

PO = Customer Purchase Order document

CRD = Customer Request Date

DO = Schneider Electric Delivery Order document

CCC = Schneider Electric Customer Care Center

mySE = Schneider Electric online ordering portal

Order Placement

Order via mySE is easy and recommended

Mandatory information for order booking:

- Product reference, quantity and price
- The minimum amount per purchase order (MOV) is **RM 500**. Any lower PO value will be automatically invoiced RM 500
- Customer **requested delivery date** (CRD) which must be within 6 months
- Follow **Minimum Order Quantity (MOQ) and Indivisible Quantity (Lot Size)**
- Delivery address and point of contact (with phone number)
- Others if applicable (Project name, SPA no., request for product certificate)

Beside mySE, you can also send your PO to CCC by email

Email orders received after 5.00pm will be processed the next working day



mySE - Making Self-Service Simple!

Access mySE via mobile app and web

- Check price, stock availability and product lead time
- Log in online 24/7, **anytime, anywhere**
- **Chat online** with our CCC agent **NEW**
- Keep yourself updated on **order status**
- Subscribe to **delivery date change** notification email **NEW**
- **Modify your order** for stock items
- Receive **immediate order confirmation**
- **Track & Trace** your shipment
- Access your **proof of delivery** (POD) **NEW**



Product Selector

Easily choose and configure the products you need in a few clicks se.com/my/en/work/support/product-selector/

Fast: Easy to use interface with guided selection. Available 24/7

Secure: Mistake-proof with warning message on compatibility

Smart: Guided selection automatically filters compatible equipment and accessories

Delivery Services

We delivery **FREE** to direct customer's address only




Default delivery: Each order line is delivered when the total line quantity is available

Complete delivery: All order lines can be delivered in a same shipment when all items are available in full quantity. Complete delivery must be indicated in your PO

On-site delivery:

We can deliver to your customer place with a transport fee:

1. Indicate your customer name, address and contact number in your PO
2. We deliver as one shipment when all items are available (complete delivery)
3. Your company stamp is still needed on the DO as proof of receiving

Buyer Location	 Delivery to Klang Valley*	 Delivery to Outstation*	 Delivery to East Malaysia
Klang Valley	RM 350	RM 1,000	RM 1,500
Outstation	RM 100	RM 350 (same region only)	RM 1,500
East Malaysia	RM 100	RM 350	RM 350 (same city only)

*Per truck charges. Rate may change for exceptionally large shipment

For last minute request to activate on-site delivery (after order acknowledgment) additional surcharge RM 100 will be imposed

Re-delivery charges:

Shall we fail to unload the shipment due to customer reason (non communicated closure), re-delivery charges of RM 100 will apply. Inform CCC at least **5 working days** in advance when you have planned closure



Receiving

What to do when receiving the delivery:

1. Verify the total number of cartons received against the total number of cartons stated in the Delivery Order (DO)
2. Write your name, the date, add your company stamp and sign the DO
3. Return the DO to the driver and keep one copy
4. If you notice any shortage or any damage, write it down on the DO, take relevant photos as proof (especially of carton labels) and email your findings to CCC together with the photos and DO number (Doc. No.)
5. Should you notice issues within the cartons, you can still email us within 5 working days from the receiving date

Logistic Return

If you notice:

- Discrepancy in quantities
- Wrong product delivered
- Incorrect documentation
- Damage or packaging dented

1. Take relevant photos as proof (especially of the carton labels), email your findings to CCC together with the photos and DO number (Doc. No.)
2. Contact or email CCC to log the case, your claim must be registered within 5 working days from the receiving date
3. Keep the original carton to hasten investigation process
4. Issues notice upon shipment receiving must be indicated in to DO



Self-Collection

You have the option to pick up the goods from our warehouse:

1. Write self-collection in your PO
2. Once the goods are ready, CCC will inform you by email or call
3. Collect the goods at our warehouse within 5 working days. After 5 working days goods will be delivered automatically to your address
4. Collect all items within the DO. No partial collection allowed
5. For urgent case, notify CCC before 12pm and wait for confirmation from CCC before heading to the warehouse. (Give **at least 4 working hours** prior to your trip to pick up the goods at our distribution centre)

Collection Hours	2.00 pm to 4.00 pm Monday to Friday, excluding public holidays
Address	SEIM Warehouse No.47, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor Tel: +603-5513 3822

Short Forms:

PO = Customer Purchase Order document
 CRD = Customer Request Date
 DO = Schneider Electric Delivery Order document
 CCC = Schneider Electric Customer Care Center
 mySE = Schneider Electric online ordering portal



Order Modification & Cancellation

	STOCK ITEMS* (Exclude SIRIM)	NON-STOCK ITEMS
Reduce order line quantity	mySE	Not allowed
Cancel order line	mySE	Not allowed
Add order line	mySE	Email to CCC
Delivery date change (CRD) within 6 months from order creation date	mySE	Email to CCC
Modify PO number	mySE	Email to CCC

For promotion order, project order, order modification & cancellation is not applicable
 *Applicable before the DO is generated



Commercial Return

For unused items, still in original conditions and original packaging

STOCK ITEM	NON-STOCK ITEMS (INDENT)
Within 1 month from the invoice date	Not allowed

A processing and transport fee of 5% of the invoice value applies to all commercial returns, deducted in the credit note

To process the return, email your request to CCC with a **photo of the product in its original packaging condition** and indicate **Schneider DO number**. Once approved, please arrange the return and we will issue the credit note



Technical Return and Warranty

Our products are guaranteed for a period of 12 months from the receiving date, against any defect in construction or operation arising from faulty design, materials or workmanship

Should you face any product defect, fill-up and email the claim form to customercare.my@se.com. We will advise the next step

After return and investigation, if there is no defect found or if the defect is due to customer misuse or negligence, the replacement, labor and logistics costs will be charged back to customer



Value Added Services

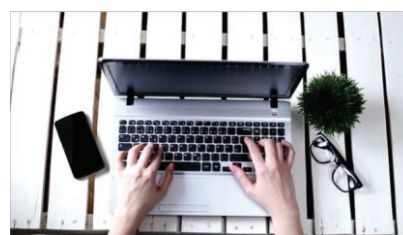
Upon request and with relevant justification, we can provide:

- QC reports/routine test reports
- Country of origin certificate (request upon order)
- Ronis key lock configuration for Air Circuit Breakers (ACB)
- Order optimization analysis for distributor **NEW**
- Scrap service with minimum 10 pallets **NEW**
- Warehouse storage service with charges **NEW**

A request must be **indicated in the PO**



Contact Customer Care Centre (CCC)



Operating hours:
8:30am to 5:30pm
 Monday to Friday,
 excluding public holidays

Tel : 1-800-880-877

Email: customercare.my@se.com

Online Chat: se.com.my > Support > Contact Support

Improving the Delivery Experience

What we can do for our customers

6 Customer Delivery Capabilities

Customer Delivery Capabilities

Customer Benefits



CLO Process: Awareness about our Commercial Logistic Offer (Guidelines about Before Sales, Order Processing, Delivery & After Sales)

- Provides commitment to serve customers with competitive lead time
- Make it easy to do business



Complete Order: Combining all ordered products in one delivery

- Employs stock reservation to guarantee Schneider's delivery commitment and advanced procurement of products



Precision Delivery: Consolidated delivery of goods on an agreed schedule/timing (i.e. every Wednesday morning)

- Increases productivity and improve organization at good receipt



Digital Order & Delivery Status

Digital Order & Delivery Status: Ordering and checking order and delivery status 24/7 through mySE online portal

- Increases visibility on all orders
- 24/7 order placement



Track & Trace

Track & Trace: Tracking of delivery-to-destination 24/7 through mySE online portal

- Increases visibility on all orders
- Optimizes operations at customer site



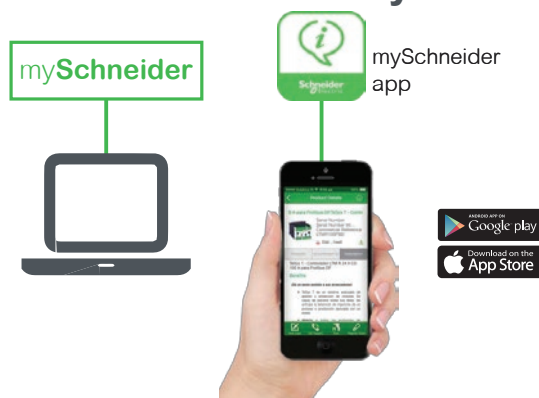
Fast Track

Fast Track: Providing faster delivery through express transport mode and/or fast warehouse processing such as cross-docking

- Expedites delivery of goods

* Subjected to Terms & Conditions, Kindly contact CCC for more information

Online Availability



24/7 Self service:
Order instantly, access to updated technical contents and others!

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Moulded Case Circuit Breaker

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EasyPact MVS	3
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EASY9 Residual Current Circuit Breakers	
EASY9 Residual Current Operated Circuit Breaker (RCBO)	

Acti 9

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Earth Leakage Protection	
Overvoltage Protection	
Control	

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Indicator Banks	

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Photo-electric Sensors	14
Proximity Sensors	
Limit Switches	
Sensors for Pressure Control	
Machine Cabling Accessories	

Power Breakers for Critical and Large Building

Moulded Case Circuit Breaker

Compact NSXm, Compact NSX and Compact NS	15
Compact NSX DC	16

Air Circuit Breaker

Mastepact NW	17
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Moulded Case Circuit Breakers MCCB EasyPact

Electrical characteristic

EZC100/EZC250 F/N/H	1-1
EZC400/EZC630 N/H	1-2

EasyPact EZC

Fixed MCCB, 1-pole/2-poles, 18kA-85kA	1-3
Fixed MCCB, 3-poles/4-poles, 10kA-50kA	1-4

EasyPact EZC Accessories

Accessories for EZC100 F/N/H	1-5
Accessories for EZC250 F/N/H	1-6
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Rotary handles and Locks for EZC400/EZC630 N/H	1-9

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04000

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28000

28900	303.00	5-1	HC
28901	354.00	5-1	HC
28902	335.00	5-1	HC
28903	412.00	5-1	HC
28904	427.00	5-1	HC
28905	481.00	5-1	HC
28908	575.00	5-1	HC
28909	629.00	5-1	HC
28910	569.00	5-1	HC
28911	677.00	5-1	HC
28912	793.00	5-1	HC
28913	900.00	5-1	HC
28957	177.00	5-1	HC
28958	264.00	5-1	HC
28959	191.00	5-1	HC

29000

29315	132.00	15-15	HC
29322	146.00	5-2	HC
29324	165.00	5-2	HC
29350	5,604.00	15-27	HC
29352	3,441.00	17-3	HC
29370	112.00	1-9, 2-5, 2-10, 15-5, 15-14	HC
29450	182.00	1-8, 2-3, 2-13, 15-13, 15-20, 15-27, 5-2, 5-3	HC
29452	318.00	1-8, 2-4, 2-8, 15-13, 15-20	HC
29470	9,012.00	17-3	HC
29471	9,012.00	17-3	HC
29472	14,990.00	17-3	HC
29473	22,044.00	17-3	HC

31000

31052	440.00	5-2	HC
31055	680.00	5-2	HC
31106	1,426.00	5-2	HC
31107	1,704.00	5-2	HC
31108	1,695.00	5-2	HC
31109	2,485.00	5-2	HC
31110	1,865.00	5-2	HC
31111	2,849.00	5-2	HC
31112	3,018.00	5-2	HC
31113	3,418.00	5-2	HC
31114	3,219.00	5-2	HC
31115	3,955.00	5-2	HC
31141	4,254.00	5-2	HC
31145	4,566.00	5-2	HC
31147	5,763.00	5-2	HC
31149	8,776.00	5-2	HC
31151	9,909.00	5-2	HC
31153	11,447.00	5-2	HC
31155	10,286.00	5-2	HC
31288	811.00	5-3	HC
31295	255.00	5-3	HC
31305	1,573.00	5-3	HC
31306	2,072.00	5-3	HC
31310	3,040.00	5-3	HC

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31330	9,717.00	5-3	HC
31331	10,170.00	5-3	HC
31332	12,509.00	5-3	HC
31333	13,299.00	5-3	HC
31334	14,864.00	5-3	HC
31335	22,043.00	5-3	HC
31336	16,073.00	5-3	HC
31337	21,259.00	5-3	HC
31338	23,540.00	5-3	HC
31339	32,552.00	5-3	HC
31340	24,064.00	5-3	HC
31341	38,128.00	5-3	HC

32000

32556	162.00	15-23	HC
32563	259.00	5-2	HC
32565	259.00	5-2	HC
32583	828.00	5-2	HC
32610	6,777.00	15-27	HC
32620	4,140.00	5-2	HC

33000

33170	344.00	3-4	HC
33207	2,062.00	17-3	HC
33209	789.00	3-5, 17-3	HC
33466	7,691.00	2-12, 15-28	HC
33468	21,037.00	2-12, 15-28	HC
33469	11,760.00	2-12, 15-28	HC
33471	25,052.00	2-12, 15-28	HC
33472	10,516.00	2-12, 15-28	HC
33474	32,478.00	2-12, 15-28	HC
33475	15,732.00	2-12, 15-28	HC
33477	36,531.00	2-12, 15-28	HC
33478	13,865.00	2-12, 15-28	HC
33480	17,577.00	2-12, 15-28	HC
33543	233.00	17-9	HC
33544	233.00	17-9	HC
33545	233.00	17-9	HC
33628	410.00	3-27, 5-3	HC
33629	468.00	3-27, 5-3	HC
33646	177.00	2-13, 15-29	HC
33648	373.00	2-13, 15-29	HC
33659	735.00	2-13, 15-29	HC
33660	735.00	2-13, 15-29	HC
33661	735.00	2-13, 15-29	HC
33662	735.00	2-13, 15-29	HC
33664	735.00	2-13, 15-29	HC
33668	735.00	2-13, 15-29	HC
33670	735.00	2-13, 15-29	HC
33671	735.00	2-13, 15-29	HC
33673	735.00	2-13, 15-29	HC
33680	2,331.00	3-3, 17-5, 17-8	HC
33681	2,331.00	3-3, 17-5, 17-8	HC
33682	1,918.00	1-8, 2-13, 15-13, 15-29	HC
33682	1,918.00	3-3, 17-5, 17-8	HC
33683	2,331.00	3-3, 17-5, 17-8	HC
33684	1,448.00	3-3, 17-5, 17-8	HC
33685	1,573.00	3-3, 17-5, 17-8	HC
33751	443.00	17-7	HC
33752	346.00	17-7	HC

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33753	251.00	17-7	HC
33863	671.00	2-13, 15-29	HC
33868	116.00	2-13, 15-29	HC
33870	364.00	2-13, 15-29	HC
33878	1,148.00	2-13, 15-29	HC
33890	1,099.00	2-13, 15-29	HC
33911	7,313.00	2-13, 15-29	HC

34000

34036	4,945.00	17-9	HC
34404	8,678.00	2-12, 15-28	HC
34406	12,710.00	2-12, 15-28	HC
34408	11,901.00	2-12, 15-28	HC
34410	16,119.00	2-12, 15-28	HC
34412	15,171.00	2-12, 15-28	HC
34414	19,135.00	2-12, 15-28	HC
34424	9,982.00	2-12, 15-28	HC
34426	18,263.00	2-12, 15-28	HC
34428	13,686.00	2-12, 15-28	HC
34430	24,577.00	2-12, 15-28	HC
34432	17,504.00	2-12, 15-28	HC
34434	27,506.00	2-12, 15-28	HC

41000

41940	331.00	2-5, 2-10, 15-14, 15-22	HC
41950	602.00	2-5, 2-10, 15-14, 15-22	HC

42000

42878	799.00	2-5, 2-10, 15-14, 15-22	HC
42888	396.00	2-5, 2-10, 15-14, 15-22	HC

44000

44936	110.00	2-13, 15-29	HC
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47000

47311	1,727.00	17-5	HC
47312	1,727.00	17-5	HC
47313	1,727.00	17-5	HC
47314	1,727.00	17-5	HC
47316	1,727.00	17-5	HC
47321	2,140.00	17-5	HC
47322	2,140.00	17-5	HC
47323	2,140.00	17-5	HC
47326	2,140.00	17-5	HC
47342	336.00	3-4, 17-3, 17-5	HC
47350	1,057.00	3-3, 17-5	HC
47351	1,285.00	3-3, 17-5	HC
47352	1,057.00	17-5	HC
47353	1,057.00	17-3, 15-5	HC
47360	891.00	3-3, 17-5	HC
47362	852.00	3-3, 17-5	HC
47363	852.00	3-3, 17-3, 17-5	HC
47375	863.00	17-5	HC
47380	891.00	3-3, 17-5	HC
47382	852.00	3-3, 17-5	HC
47383	852.00	3-3, 17-3, 17-5	HC
47385	891.00	3-3, 17-3, 17-5	HC

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A9C20844	1,054.90	6-23	HA	A9D11840	650.30	6-31	HA	A9F74325	196.90	6-6	HA
A9C20847	1,152.80	6-23	HA	A9D11845	650.30	6-31	HA	A9F74332	206.80	6-6	HA
A9C20862	1,060.50	6-23	HA	A9D12806	644.20	6-31	HA	A9F74340	217.90	6-6	HA
A9C20863	1,397.10	6-23	HA	A9D12810	662.40	6-31	HA	A9F74350	400.30	6-6	HA
A9C20864	1,526.60	6-23	HA	A9D12816	644.20	6-31	HA	A9F74363	392.80	6-6	HA
A9C20867	1,873.70	6-23	HA	A9D12820	662.40	6-31	HA	A9F74401	911.20	6-6	HA
A9C20868	1,484.60	6-23	HA	A9D12825	758.20	6-31	HA	A9F74402	722.00	6-6	HA
A9C20869	1,873.70	6-23	HA	A9D12832	650.30	6-31	HA	A9F74403	728.70	6-6	HA
A9C20882	2,623.10	6-23	HA	A9D12840	668.70	6-31	HA	A9F74404	728.70	6-6	HA
A9C20884	3,746.10	6-23	HA	A9D12845	816.30	6-31	HA	A9F74406	450.20	6-6	HA
A9C30811	172.70	6-24	HA	A9D31606	682.50	6-14	HA	A9F74410	460.80	6-6	HA
A9C30811 + A9C32816	451.50	6-24	HA	A9D31610	655.70	6-14	HA	A9F74416	448.00	6-6	HA
A9C30812	271.00	6-24	HA	A9D31616	643.30	6-14	HA	A9F74420	456.50	6-6	HA
A9C30814	517.40	6-24	HA	A9D31620	655.70	6-14	HA	A9F74425	460.80	6-6	HA
A9C30815	276.80	6-24	HA	A9D31625	695.20	6-14	HA	A9F74432	473.70	6-6	HA
A9C32811	360.20	6-24	HA	A9D31632	717.50	6-14	HA	A9F74440	522.50	6-6	HA
A9C33811	332.80	6-24	HA	A9D31640	694.00	6-14	HA	A9F74450	933.60	6-6	HA
A9C62210	2,185.60	6-19	HA	A9D41606	580.40	6-14	HA	A9F74463	933.60	6-6	HA
A9C62216	2,185.60	6-19	HA	A9D41610	569.40	6-14	HA	A9F75101	246.60	6-5	HA
A9C62225	2,185.60	6-19	HA	A9D41616	547.10	6-14	HA	A9F75102	195.50	6-5	HA
A9C62240	2,185.60	6-19	HA	A9D41620	562.70	6-14	HA	A9F75103	195.50	6-5	HA
A9C62263	2,172.50	6-19	HA	A9D41625	580.40	6-14	HA	A9F75104	180.00	6-5	HA
A9C62310	2,576.10	6-19	HA	A9D41632	580.40	6-14	HA	A9F75106	162.40	6-5	HA
A9C62316	2,576.10	6-19	HA	A9D41640	562.70	6-14	HA	A9F75110	162.40	6-5	HA
A9C62325	2,576.10	6-19	HA	A9D61806	638.40	6-31	HA	A9F75116	161.00	6-5	HA
A9C62340	2,576.10	6-19	HA	A9D61810	638.40	6-31	HA	A9F75120	162.40	6-5	HA
A9C62363	2,679.10	6-19	HA	A9D61816	626.80	6-31	HA	A9F75125	162.40	6-5	HA
A9C62410	2,965.60	6-19	HA	A9D61820	620.90	6-31	HA	A9F75132	162.40	6-5	HA
A9C62416	2,965.60	6-19	HA	A9D61825	620.80	6-31	HA	A9F75140	161.00	6-5	HA
A9C62425	2,965.60	6-19	HA	A9D61832	626.80	6-31	HA	A9F75150	242.10	6-5	HA
A9C62440	2,965.60	6-19	HA	A9D61840	650.30	6-31	HA	A9F75163	288.50	6-5	HA
A9C62463	3,084.40	6-19	HA	A9D61845	816.30	6-31	HA	A9F75201	462.60	6-5	HA
A9C65210	2,185.60	6-20	HA	A9F74101	113.70	6-5	HA	A9F75202	462.60	6-5	HA
A9C65216	2,185.60	6-20	HA	A9F74102	111.50	6-5	HA	A9F75203	422.30	6-5	HA
A9C65225	2,185.60	6-20	HA	A9F74103	111.50	6-5	HA	A9F75204	422.30	6-5	HA
A9C65240	2,172.50	6-20	HA	A9F74104	111.50	6-5	HA	A9F75206	374.10	6-5	HA
A9C65310	2,560.50	6-20	HA	A9F74106	38.60	6-5	HA	A9F75210	347.10	6-5	HA
A9C65316	2,560.50	6-20	HA	A9F74110	38.60	6-5	HA	A9F75216	347.10	6-5	HA
A9C65325	2,576.10	6-20	HA	A9F74116	38.60	6-5	HA	A9F75220	347.10	6-5	HA
A9C65340	2,560.50	6-20	HA	A9F74120	38.60	6-5	HA	A9F75225	347.10	6-5	HA
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A9C65416	2,965.60	6-20	HA	A9F74132	41.80	6-5	HA	A9F75240	458.30	6-5	HA
A9C65425	2,965.60	6-20	HA	A9F74140	43.30	6-5	HA	A9F75250	510.00	6-5	HA
A9C65440	2,997.80	6-20	HA	A9F74150	80.60	6-5	HA	A9F75263	664.40	6-5	HA
A9C70112	2,436.40	6-18	HA	A9F74163	82.60	6-5	HA	A9F75301	707.70	6-6	HA
A9C70114	2,623.60	6-18	HA	A9F74201	270.70	6-5	HA	A9F75302	707.70	6-6	HA
A9C70122	2,671.20	6-18	HA	A9F74202	277.10	6-5	HA	A9F75303	707.70	6-6	HA
A9C70124	3,558.30	6-18	HA	A9F74203	277.10	6-5	HA	A9F75304	1,042.00	6-6	HA
A9C70132	2,406.40	6-17	HA	A9F74204	270.70	6-5	HA	A9F75306	578.20	6-6	HA
A9C70134	2,653.80	6-17	HA	A9F74206	121.00	6-5	HA	A9F75310	572.90	6-6	HA
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A9D10810	650.30	6-31	HA	A9F74225	121.00	6-5	HA	A9F75332	578.20	6-6	HA
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A9D11825	644.20	6-31	HA	A9F74316	196.90	6-6	HA	A9F75420	728.70	6-6	HA

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A9F75450	1,648.90	6-6	HA	A9F85163	529.90	6-7	HA	A9F94301	636.70	6-10	HA
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A9F84102	153.10	6-7	HA	A9F85203	752.60	6-7	HA	A9F94304	553.80	6-10	HA
A9F84103	162.10	6-7	HA	A9F85204	684.40	6-7	HA	A9F94306	558.90	6-10	HA
A9F84104	126.80	6-7	HA	A9F85206	487.20	6-7	HA	A9F94310	671.60	6-10	HA
A9F84106	131.10	6-7	HA	A9F85210	601.40	6-7	HA	A9F94316	558.90	6-10	HA
A9F84110	120.80	6-7	HA	A9F85216	452.80	6-7	HA	A9F94320	659.60	6-10	HA
A9F84116	120.80	6-7	HA	A9F85220	476.30	6-7	HA	A9F94325	670.60	6-10	HA
A9F84120	120.80	6-7	HA	A9F85225	487.20	6-7	HA	A9F94332	670.50	6-10	HA
A9F84125	125.40	6-7	HA	A9F85232	487.20	6-7	HA	A9F94340	652.00	6-10	HA
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A9F84140	125.40	6-7	HA	A9F85250	1,022.50	6-7	HA	A9F94363	1,161.70	6-10	HA
A9F84150	185.20	6-7	HA	A9F85263	982.70	6-7	HA	A9F94401	1,206.90	6-10	HA
A9F84163	183.50	6-7	HA	A9F85301	840.20	6-8	HA	A9F94402	1,271.00	6-10	HA
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A9F84263	475.60	6-7	HA	A9F85401	1,494.60	6-8	HA	A9L08100	353.90	6-16	HA
A9F84301	542.10	6-8	HA	A9F85402	1,494.60	6-8	HA	A9L08102	367.10	6-16	HA
A9F84302	570.90	6-8	HA	A9F85403	1,494.60	6-8	HA	A9L08500	703.20	6-16	HA
A9F84303	684.10	6-8	HA	A9F85404	1,494.60	6-8	HA	A9L08501	904.00	6-16	HA
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A9F84306	546.50	6-8	HA	A9F85410	1,188.20	6-8	HA	A9L08601	1,520.10	6-16	HA
A9F84310	546.50	6-8	HA	A9F85416	1,188.20	6-8	HA	A9L15586	1,815.60	6-16	EA
A9F84316	546.50	6-8	HA	A9F85420	1,188.20	6-8	HA	A9L15686	424.40	6-16	EA
A9F84320	531.00	6-8	HA	A9F85425	1,499.80	6-8	HA	A9L15687	631.00	6-16	EA
A9F84325	551.40	6-8	HA	A9F85432	1,188.20	6-8	HA	A9L15688	1,133.60	6-16	EA
A9F84332	546.50	6-8	HA	A9F85440	1,188.20	6-8	HA	A9L15691	417.20	6-16	EA
A9F84340	536.20	6-8	HA	A9F85450	1,777.20	6-8	HA	A9L15692	654.20	6-16	EA
A9F84350	796.20	6-8	HA	A9F85463	1,667.00	6-8	HA	A9L15693	1,167.00	6-16	EA
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A9F85106	203.80	6-7	HA	A9F94216	413.90	6-9	HA	A9MEM1521	900.00	8-7	HH
A9F85110	203.80	6-7	HA	A9F94220	413.90	6-9	HA	A9MEM1522	900.00	8-7	HH
A9F85116	182.20	6-7	HA	A9F94225	413.90	6-9	HA	A9MEM1540	1,608.00	8-7	HH
A9F85120	347.80	6-7	HA	A9F94232	471.80	6-9	HA	A9MEM1541	1,608.00	8-7	HH
A9F85125	437.20	6-7	HA					A9MEM1542	1,608.00	8-7	HH

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A9MEM1561	1,350.00	8-7	HH	A9N61513	106.20	6-32	HA	A9S60232	89.60	6-25	HA
A9MEM1562	1,350.00	8-7	HH	A9N61514	109.20	6-32	HA	A9S60320	129.70	6-25	HA
A9MEM1563	1,350.00	8-7	HH	A9N61515	123.60	6-32	HA	A9S60332	134.90	6-25	HA
A9MEM1564	1,350.00	8-7	HH	A9N61517	134.60	6-32	HA	A9S60420	197.90	6-25	HA
A9MEM1570	1,990.00	8-7	HH	A9N61518	159.50	6-32	HA	A9S60432	211.20	6-25	HA
A9MEM1571	1,990.00	8-7	HH	A9N61519	160.50	6-32	HA	A9S65140	91.10	6-26	HA
A9MEM1572	1,990.00	8-7	HH	A9N61520	319.80	6-32	HA	A9S65163	96.60	6-26	HA
A9MEM1573	1,990.00	8-7	HH	A9N61521	311.90	6-32	HA	A9S65191	177.70	6-26	HA
A9MEM1574	1,990.00	8-7	HH	A9N61522	166.70	6-32	HA	A9S65240	148.60	6-26	HA
A9MEM1580	1,347.00	8-7	HH	A9N61523	260.70	6-32	HA	A9S65263	155.10	6-26	HA
A9MEM1590	4,220.00	8-7	HH	A9N61524	168.20	6-32	HA	A9S65291	253.60	6-26	HA
A9MEM1591	4,220.00	8-7	HH	A9N61525	168.20	6-32	HA	A9S65292	383.00	6-26	HA
A9MEM1592	4,220.00	8-7	HH	A9N61526	158.10	6-32	HA	A9S65340	222.50	6-26	HA
A9MEM1593	4,220.00	8-7	HH	A9N61528	156.50	6-32	HA	A9S65363	230.00	6-26	HA
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A9N18362	419.80	6-11	HA	A9N61535	168.20	6-32	HA	A9V10225	1,215.40	6-15	HA
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A9N18371	876.40	6-11	HA	A9N61652	490.00	6-33	HA	A9V41240	1,312.40	6-15	HA
A9N18372	876.60	6-11	HA	A9N61655	616.10	6-33	HA	A9V41263	939.80	6-15	HA
A9N18374	891.30	6-11	HA	A9N61656	488.20	6-33	HA	A9V41325	1,217.90	6-15	HA
A9N18376	919.90	6-11	HA	A9N61658	618.50	6-33	HA	A9V41340	1,343.10	6-15	HA
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A9N18387	1,815.30	6-11	HA	A9N61660	499.10	6-33	HA	A9V41425	1,020.30	6-15	HA
A9N18388	1,815.30	6-11	HA	A9N61690	576.10	6-34	HA	A9V41440	1,614.80	6-15	HA
A9N18389	1,815.30	6-11	HA	A9N61699	647.10	6-34	HA	A9V41463	1,772.50	6-15	HA
A9N18392	2,707.40	6-11	HA	A9R10225	540.30	6-13	HA	A9V44225	775.60	6-15	HA
A9N18445	359.40	6-12	HA	A9R11280	663.90	6-13	HA	A9V44240	970.30	6-15	HA
A9N18446	458.80	6-12	HA	A9R11291	672.30	6-13	HA	A9V44263	1,226.30	6-15	HA
A9N18447	476.60	6-12	HA	A9R11480	1,129.50	6-13	HA	A9V44325	1,010.90	6-15	HA
A9N18457	928.10	6-12	HA	A9R11491	863.50	6-13	HA	A9V44340	907.30	6-15	HA
A9N18458	972.80	6-12	HA	A9R12240	237.40	6-13	HA	A9V44363	1,629.10	6-15	HA
A9N18459	1,402.40	6-12	HA	A9R12263	299.50	6-13	HA	A9V44425	840.00	6-15	HA
A9N18467	1,454.80	6-12	HA	A9R12280	593.40	6-13	HA	A9V44440	1,080.60	6-15	HA
A9N18468	1,526.20	6-12	HA	A9R12291	693.20	6-13	HA	A9V44463	1,192.80	6-15	HA
A9N18469	1,600.10	6-12	HA	A9R12440	432.60	6-13	HA	A9XAH157	343.30	6-35	HA
A9N18470	1,834.90	6-12	HA	A9R12463	595.70	6-13	HA	A9XAH257	490.50	6-35	HA
A9N18479	2,216.30	6-12	HA	A9R12480	764.70	6-13	HA	A9XAH357	388.80	6-35	HA
A9N18480	2,316.90	6-12	HA	A9R12491	952.40	6-13	HA	A9XAH457	515.20	6-35	HA
A9N18481	2,653.70	6-12	HA	A9R14280	649.70	6-13	HA	A9XAH557	665.00	6-35	HA
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A9N18513	2,016.00	6-12	HA	A9R14491	1,028.70	6-13	HA	A9XMWD20	2,170.00	8-7	HH
A9N18514	2,164.60	6-12	HA	A9R71225	670.80	6-13	HA	A9XMZA08	4,039.00	8-7	HH
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A9N18525	4,343.00	6-12	HA	A9R71263	466.30	6-13	HA	A9XPCM04	106.40	6-35	HA
A9N61500	207.40	6-32	HA	A9R71425	764.00	6-13	HA	A9XPE110	66.30	6-35	HA
A9N61501	213.20	6-32	HA	A9R71440	585.50	6-13	HA	A9XPE210	66.30	6-35	HA
A9N61502	109.20	6-32	HA	A9R71463	886.50	6-13	HA	A9XPE310	66.30	6-35	HA
A9N61503	109.20	6-32	HA	A9R74225	612.10	6-13	HA	A9XPE410	65.10	6-35	HA
A9N61504	109.20	6-32	HA	A9R74240	396.80	6-13	HA	A9XPH106	130.10	6-35	HA
A9N61505	109.20	6-32	HA	A9R74263	480.50	6-13	HA	A9XPH112	77.40	6-35	HA
A9N61506	109.20	6-32	HA	A9R74425	962.00	6-13	HA	A9XPH124	132.70	6-35	HA
A9N61508	109.20	6-32	HA	A9R74440	334.30	6-13	HA	A9XPH157	197.90	6-35	HA
A9N61509	109.20	6-32	HA	A9R74463	366.20	6-13	HA	A9XPH212	106.00	6-35	HA
A9N61510	106.20	6-32	HA	A9S60120	58.00	6-25	HA	A9XPH224	197.90	6-35	HA
A9N61511	109.20	6-32	HA	A9S60132	87.00	6-25	HA	A9XPH257	285.40	6-35	HA

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A9XPH312	118.60	6-35	HA
A9XPH324	263.70	6-35	HA
A9XPH357	388.80	6-35	HA
A9XPH412	159.40	6-35	HA
A9XPH424	320.80	6-35	HA
A9XPH457	424.20	6-35	HA
A9XPH512	192.40	6-35	HA
A9XPH518	290.70	6-35	HA
A9XPH524	452.90	6-35	HA
A9XPH557	537.50	6-35	HA
A9XPT920	80.90	6-35	HA
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ABL8BBU24200	2,950.00	12-19	GB
ABL8RED24400	1,296.00	12-19	GB
ABL8RED24400	1,296.00	12-19	GB
ABL8RPM24200	3,542.00	12-18	GB
ABL8RPM24200	3,542.00	12-18	GB
ABL8RPS24030	1,086.00	12-18	GB
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ABLM1A12021	410.00	12-18	GB
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ABLS1A24038	521.00	12-18	GB
ABLS1A24050	576.00	12-18	GB
ABLS1A24050	576.00	12-18	GB
ABLS1A24100	903.00	12-18	GB
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ABLS1A24200	1,551.00	12-18	GB

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BLRCS050A060B44	416.20	9-1	ED
BLRCS050A060B52	433.70	9-1	ED
BLRCS054A065B24	515.00	9-1	ED
BLRCS063A075B24	607.70	9-1	ED
BLRCS083A100B24	669.50	9-1	ED
BLRCS100A120B44	479.00	9-1	ED
BLRCS106A127B52	543.90	9-1	ED
BLRCS109A130B24	847.70	9-1	ED
BLRCS125A150B44	550.10	9-1	ED
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BLRCS250A300B52	744.70	9-1	ED
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CA2KN31••	177.00	11-13	GA
CA2KN40••	177.00	11-13	GA
CA3KN22••	218.00	11-13	GA
CA3KN31••	218.00	11-13	GA
CA3KN40••	218.00	11-13	GA
CA4KN22•••	253.00	11-13	GA
CA4KN31•••	253.00	11-13	GA
CA4KN40•••	253.00	11-13	GA
CAD32•7	252.00	11-35	GA
CAD32•D	293.00	11-35	GA
CAD32•L	293.00	11-35	GA
CAD50•7	252.00	11-35	GA
CAD50•D	293.00	11-35	GA
CAD50•L	293.00	11-35	GA
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DL1CE012	27.00	13-24	GB
DL1CE024	22.00	13-24	GB
DL1CE048	25.00	13-24	GB
DL1CE130	38.00	13-24	GB
DL1CF110	39.00	13-24	GB
DL1CF220	40.00	13-24	GB
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EZ9D16625	272.30	6-4	DC
EZ9D16632	293.70	6-4	DC
EZ9E108P2F	97.10	6-30	DC
EZ9E108P2S	97.50	6-29	DC
EZ9E108S2F	86.30	6-30	DC
EZ9E108S2S	86.30	6-29	DC
EZ9E112P2F	131.00	6-30	DC
EZ9E112P2S	126.90	6-29	DC
EZ9E112S2F	120.80	6-30	DC
EZ9E112S2S	120.80	6-29	DC
EZ9E118P2F	195.90	6-30	DC

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EZ9E118P2S	190.90	6-29	DC
EZ9E118S2F	180.70	6-30	DC
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EZ9E212P2S	217.30	6-29	DC
EZ9E212S2F	209.10	6-30	DC
EZ9E212S2S	203.00	6-29	DC
EZ9E312P2F	332.00	6-30	DC
EZ9E312P2S	321.80	6-29	DC
EZ9E312S2F	328.90	6-30	DC
EZ9E312S2S	319.80	6-29	DC
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EZ9F34110	22.20	6-1	DC
EZ9F34116	22.20	6-1	DC
EZ9F34120	22.20	6-1	DC
EZ9F34125	22.20	6-1	DC
EZ9F34132	22.20	6-1	DC
EZ9F34140	31.50	6-1	DC
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EZ9F34163	46.80	6-1	DC
EZ9F34206	69.90	6-1	DC
EZ9F34210	69.90	6-1	DC
EZ9F34216	69.90	6-1	DC
EZ9F34220	69.90	6-1	DC
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EZ9F34316	104.90	6-1	DC
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EZ9F34332	105.90	6-1	DC
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EZ9F34350	131.90	6-1	DC
EZ9F34363	131.90	6-1	DC
EZ9F51106	45.10	6-3	DC
EZ9F51110	45.10	6-3	DC
EZ9F51116	45.10	6-3	DC
EZ9F51120	45.10	6-3	DC
EZ9F51132	45.10	6-3	DC
EZ9F51140	45.10	6-3	DC
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EZ9F51332	159.00	6-3	DC
EZ9F51340	159.00	6-3	DC
EZ9F51363	285.60	6-3	DC
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EZ9F56110	23.20	6-2	DC
EZ9F56116	23.20	6-2	DC
EZ9F56120	23.20	6-2	DC
EZ9F56125	23.20	6-2	DC
EZ9F56132	23.20	6-2	DC
EZ9F56140	35.70	6-2	DC

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EZ9F56150	64.90	6-2	DC	EZC100H1025	304.00	1-3	EB	EZC250H2200	1,180.00	1-3	EB
EZ9F56163	64.90	6-2	DC	EZC100H1032	304.00	1-3	EB	EZC250H2250	1,180.00	1-3	EB
EZ9F56206	82.20	6-2	DC	EZC100H1040	304.00	1-3	EB	EZC250H3100	921.00	1-4	EB
EZ9F56210	82.20	6-2	DC	EZC100H1050	304.00	1-3	EB	EZC250H3125	921.00	1-4	EB
EZ9F56216	82.20	6-2	DC	EZC100H1063	304.00	1-3	EB	EZC250H3160	921.00	1-4	EB
EZ9F56220	82.20	6-2	DC	EZC100H1080	304.00	1-3	EB	EZC250H3200	1,197.00	1-4	EB
EZ9F56225	82.20	6-2	DC	EZC100H1100	304.00	1-3	EB	EZC250H3250	1,197.00	1-4	EB
EZ9F56232	82.20	6-2	DC	EZC100H2016	387.00	1-3	EB	EZC250H4063	1,515.00	1-4	EB
EZ9F56240	82.50	6-2	DC	EZC100H2020	387.00	1-3	EB	EZC250H4080	1,515.00	1-4	EB
EZ9F56250	144.00	6-2	DC	EZC100H2025	387.00	1-3	EB	EZC250H4100	1,515.00	1-4	EB
EZ9F56263	143.90	6-2	DC	EZC100H2032	387.00	1-3	EB	EZC250H4125	1,201.00	1-4	EB
EZ9F56306	128.20	6-2	DC	EZC100H2040	387.00	1-3	EB	EZC250H4160	1,201.00	1-4	EB
EZ9F56310	128.20	6-2	DC	EZC100H2050	387.00	1-3	EB	EZC250H4200	2,831.00	1-4	EB
EZ9F56316	128.20	6-2	DC	EZC100H2063	387.00	1-3	EB	EZC250H4250	2,831.00	1-4	EB
EZ9F56320	128.20	6-2	DC	EZC100H2080	387.00	1-3	EB	EZC250N3125	834.00	1-4	EB
EZ9F56325	128.20	6-2	DC	EZC100H2100	387.00	1-3	EB	EZC250N3160	834.00	1-4	EB
EZ9F56332	128.20	6-2	DC	EZC100H3016	431.00	1-4	EB	EZC250N3200	1,107.00	1-4	EB
EZ9F56340	128.20	6-2	DC	EZC100H3020	431.00	1-4	EB	EZC250N3250	1,107.00	1-4	EB
EZ9F56350	245.50	6-2	DC	EZC100H3025	431.00	1-4	EB	EZC250N4125	2,010.00	1-4	EB
EZ9F56363	245.50	6-2	DC	EZC100H3032	431.00	1-4	EB	EZC250N4160	2,010.00	1-4	EB
EZ9R14225	316.20	6-4	DC	EZC100H3050	431.00	1-4	EB	EZC250N4200	2,311.00	1-4	EB
EZ9R36225	287.30	6-4	DC	EZC100H3063	431.00	1-4	EB	EZC250N4250	2,311.00	1-4	EB
EZ9R36240	244.20	6-4	DC	EZC100H3080	431.00	1-4	EB	EZC400H3320N	2,393.00	1-4	EB
EZ9R36263	290.00	6-4	DC	EZC100H3100	431.00	1-4	EB	EZC400H3400N	2,393.00	1-4	EB
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EZ9R36440	454.20	6-4	DC	EZC100H4020	749.00	1-4	EB	EZC400H4400N	4,655.00	1-4	EB
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EZ9R56263	223.30	6-4	DC	EZC100H4063	749.00	1-4	EB	EZC400N4400N	3,882.00	1-4	EB
EZ9R56425	458.40	6-4	DC	EZC100H4080	749.00	1-4	EB	EZC630H3500N	3,042.00	1-4	EB
EZ9R56440	308.80	6-4	DC	EZC100H4100	749.00	1-4	EB	EZC630H3600N	3,042.00	1-4	EB
EZ9R56463	402.40	6-4	DC	EZC100N1016	316.00	1-3	EB	EZC630H4500N	5,352.00	1-4	EB
EZ9R66225	330.60	6-4	DC	EZC100N1020	316.00	1-3	EB	EZC630H4600N	5,352.00	1-4	EB
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EZ9R66440	268.20	6-4	DC	EZC100N1050	316.00	1-3	EB	EZC630N4600N	4,267.00	1-4	EB
EZ9R66463	342.70	6-4	DC	EZC100N1063	316.00	1-3	EB	EZEAL	147.00	1-6	EB
EZAFASB2	42.00	1-5	EB	EZC100N1080	316.00	1-3	EB	EZEAX	159.00	1-6	EB
EZALOCK	92.00	1-5	EB	EZC100N1100	316.00	1-3	EB	EZEAXAL	381.00	1-6	EB
EZAROTDS	263.00	1-5	EB	EZC100N3016	419.00	1-4	EB	EZEFASB2	52.00	1-6	EB
EZAROTE	358.00	1-5	EB	EZC100N3020	419.00	1-4	EB	EZEFASB3N	88.00	1-6	EB
EZASHT024DC	314.00	1-5	EB	EZC100N3025	419.00	1-4	EB	EZELOCK	103.00	1-6	EB
EZASHT100AC	288.00	1-5	EB	EZC100N3032	419.00	1-4	EB	EZELOCKN	130.00	1-6	EB
EZASHT200AC	288.00	1-5	EB	EZC100N3040	419.00	1-4	EB	EZEROTDS	284.00	1-6	EB
EZASHT380AC	288.00	1-5	EB	EZC100N3050	419.00	1-4	EB	EZEROTE	396.00	1-6	EB
EZASPDR3P	67.00	1-5	EB	EZC100N3063	419.00	1-4	EB	EZESHT024DC	295.00	1-6	EB
EZATSHD3P	131.00	1-5	EB	EZC100N3080	419.00	1-4	EB	EZESHT100AC	295.00	1-6	EB
EZAUVR024DC	451.00	1-5	EB	EZC100N3100	419.00	1-4	EB	EZESHT200AC	295.00	1-6	EB
EZAUVR200AC	463.00	1-5	EB	EZC100N4016	618.00	1-4	EB	EZESPD3P	159.00	1-6	EB
EZAUVR380AC	463.00	1-5	EB	EZC100N4020	618.00	1-4	EB	EZESPD4P	204.00	1-6	EB
EZAUX01	159.00	1-5	EB	EZC100N4025	618.00	1-4	EB	EZETEX	106.00	1-6	EB
EZAUX10	148.00	1-5	EB	EZC100N4032	618.00	1-4	EB	EZETEX4P	156.00	1-6	EB
EZAUX11	338.00	1-5	EB	EZC100N4040	618.00	1-4	EB	EZETSHD3P	159.00	1-6	EB
EZC100F3016	299.00	1-4	EB	EZC100N4050	618.00	1-4	EB	EZETSHD4PN	243.00	1-6	EB
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EZC100F3025	299.00	1-4	EB	EZC100N4080	618.00	1-4	EB	EZEUVRN200AC	965.00	1-6	EB
EZC100F3032	299.00	1-4	EB	EZC100N4100	618.00	1-4	EB				
EZC100F3040	299.00	1-4	EB	EZC250F3125	716.00	1-4	EB				
EZC100F3050	299.00	1-4	EB	EZC250F3160	716.00	1-4	EB				
EZC100F3063	299.00	1-4	EB	EZC250F3200	917.00	1-4	EB				
EZC100F3080	299.00	1-4	EB	EZC250F3250	917.00	1-4	EB				
EZC100F3100	299.00	1-4	EB	EZC250H2100	997.00	1-3	EB				
EZC100H1016	304.00	1-3	EB	EZC250H2125	997.00	1-3	EB				
EZC100H1020	304.00	1-3	EB	EZC250H2160	997.00	1-3	EB				

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GV1L3	537.00	11-38	GA
GV2AF01	38.00	11-39	GA
GV2AF3	38.00	11-39	GA
GV2AF4	39.00	11-39	GA
GV2APN01	361.00	11-39	GA

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GV2APN02	361.00	11-39	GA
GV2G245	63.00	11-39	GA
GV2G254	75.00	11-39	GA
GV2G272	96.00	11-39	GA
GV2G345	113.00	11-39	GA
GV2G354	124.00	11-39	GA
GV2G445	150.00	11-39	GA
GV2G454	171.00	11-39	GA
GV2G554	198.00	11-39	GA
GV2ME01	289.00	11-37	GA
GV2ME02	289.00	11-37	GA
GV2ME03	289.00	11-37	GA
GV2ME04	289.00	11-37	GA
GV2ME05	289.00	11-37	GA
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GV2ME07	289.00	11-37	GA
GV2ME08	289.00	11-37	GA
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GV2P05	315.00	11-37	GA
GV2P06	315.00	11-37	GA
GV2P07	315.00	11-37	GA
GV2P08	315.00	11-37	GA
GV2P10	315.00	11-37	GA
GV2P14	397.00	11-37	GA
GV2P16	417.00	11-37	GA
GV2P20	417.00	11-37	GA
GV2P21	472.00	11-37	GA
GV2P22	536.00	11-37	GA
GV2P32	660.00	11-37	GA
GV2V03	574.00	11-39	GA
GV3APN01	613.00	11-39	GA
GV3APN02	613.00	11-39	GA
GV3G264	290.00	11-39	GA
GV3P13	939.00	11-37	GA
GV3P18	988.00	11-37	GA
GV3P25	999.00	11-37	GA
GV3P32	1,021.00	11-37	GA
GV3P40	1,053.00	11-37	GA
GV3P50	1,239.00	11-37	GA
GV3P65	1,412.00	11-37	GA
GV3P73	1,483.00	11-37	GA
GV3P80	2,027.00	11-37	GA
GV4ADN01	607.00	11-40	GA
GV4ADN02	844.00	11-40	GA
GV4AE11	54.00	11-40	GA
GV4AS027	435.00	11-40	GA
GV4AS057	435.00	11-40	GA
GV4AS137	435.00	11-40	GA
GV4AS287	435.00	11-40	GA
GV4AS487	435.00	11-40	GA
GV4AU027	435.00	11-40	GA
GV4AU057	435.00	11-40	GA
GV4AU137	435.00	11-40	GA
GV4AU247	435.00	11-40	GA
GV4AU415	435.00	11-40	GA
GV4AU486	435.00	11-40	GA

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GV4P02N	3,142.00	11-40	GA
GV4P03N	3,148.00	11-40	GA
GV4P07N	3,148.00	11-40	GA
GV4P115B	3,244.00	11-40	GA
GV4P115N	3,407.00	11-40	GA
GV4P115S	3,578.00	11-40	GA
GV4P12N	3,148.00	11-40	GA
GV4P25B	2,860.00	11-40	GA
GV4P25N	3,151.00	11-40	GA
GV4P50B	2,860.00	11-40	GA
GV4P50N	3,217.00	11-40	GA
GV4P80B	2,944.00	11-40	GA
GV4P80N	3,306.00	11-40	GA
GV4P80S	3,471.00	11-40	GA
GV4PE02N	2,863.00	11-40	GA
GV4PE02S	3,005.00	11-40	GA
GV4PE03N	2,863.00	11-40	GA
GV4PE03S	3,005.00	11-40	GA
GV4PE07N	2,863.00	11-40	GA
GV4PE07S	3,005.00	11-40	GA
GV4PE115B	2,989.00	11-40	GA
GV4PE115N	3,098.00	11-40	GA
GV4PE115S	3,253.00	11-40	GA
GV4PE12N	2,863.00	11-40	GA
GV4PE12S	3,005.00	11-40	GA
GV4PE25B	2,600.00	11-40	GA
GV4PE25N	2,966.00	11-40	GA
GV4PE25S	3,156.00	11-40	GA
GV4PE50B	2,634.00	11-40	GA
GV4PE50N	3,005.00	11-40	GA
GV4PE50S	3,189.00	11-40	GA
GV4PE80B	2,762.00	11-40	GA
GV4PE80N	3,005.00	11-40	GA
GV4PE80S	3,191.00	11-40	GA
GV5AP03	175.00	11-41	GA
GV5P150F	3,444.00	11-41	GA
GV5P150H	5,070.00	11-41	GA
GV5P220F	3,816.00	11-41	GA
GV5P220H	5,459.00	11-41	GA
GV6AP03	326.00	11-41	GA
GV6P320F	5,314.00	11-41	GA
GV6P320H	5,926.00	11-41	GA
GV6P500F	5,794.00	11-41	GA
GV6P500H	6,462.00	11-41	GA
GV7AB11	220.00	11-41	GA
GV7AE11	220.00	11-41	GA
GV7AS107	437.00	11-41	GA
GV7AS207	437.00	11-41	GA
GV7AU207	421.00	11-41	GA
GVA•025	185.00	11-38	GA
GVA•055	176.00	11-38	GA
GVA•115	176.00	11-38	GA
GVA•125	176.00	11-38	GA
GVA•225	185.00	11-38	GA
GVA•385	185.00	11-38	GA
GVA•415	185.00	11-38	GA
GVAD0101	81.00	11-38	GA
GVAD0110	81.00	11-38	GA
GVAD1001	81.00	11-38	GA
GVAD1010	81.00	11-38	GA
GVAE1	48.00	11-38	GA
GVAE11	54.00	11-38	GA
GVAE20	54.00	11-38	GA
GVAM11	90.00	11-38	GA
GVAN11	54.00	11-38	GA
GVAN20	54.00	11-38	GA

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LA1KN02	50.00	11-10, 11-13	GA
LA1KN04	69.00	11-10, 11-13	GA
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LA1KN13	69.00	11-10, 11-13	GA
LA1KN20	50.00	11-10, 11-13	GA
LA1KN22	69.00	11-10, 11-13	GA
LA1KN31	69.00	11-10, 11-13	GA
LA1KN40	69.00	11-10, 11-13	GA
LA4DA2U	97.00	11-20	GA
LA4KA1U	55.00	11-10	GA
LA4KC1B	55.00	11-10	GA
LA4KE1B	55.00	11-10	GA
LA4KE1E	55.00	11-10	GA
LA4KE1FC	55.00	11-10	GA
LA4KE1UG	55.00	11-10	GA
LA6DK10•	496.00	11-20, 11-35	GA
LA6DK20•	P.O.R	11-20	GA
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LA7D3058	524.00	11-24	GA
LA7D3064	197.00	11-24	GA
LA7D902	80.00	11-24	GA
LA9D11502	311.00	11-21	GA
LA9D11569	1,171.00	11-21	GA
LA9D11570	682.00	11-21	GA
LA9D4002	230.00	11-21	GA
LA9D50978	240.00	11-21	GA
LA9D65A69	334.00	11-21	GA
LA9D8002	246.00	11-21	GA
LA9D8069	356.00	11-21	GA
LA9D8070	319.00	11-21	GA
LA9D80978	P.O.R.	11-21	GA
LA9F103	P.O.R.	11-24	GA
LAD4CM	195.00	11-21	GA
LAD4RC3E	106.00	11-20	GA
LAD4RC3U	106.00	11-20	GA
LAD4RCE	71.00	11-20, 11-35	GA
LAD4RCU	71.00	11-20, 11-35	GA
LAD4TB	P.O.R.	11-35	GA
LAD4TS	P.O.R.	11-35	GA
LAD4VE	75.00	11-35	GA
LAD4VG	75.00	11-35	GA
LAD4VU	75.00	11-35	GA
LAD703F	492.00	11-24	GA
LAD7B105	206.00	11-24	GA
LAD7B106	68.00	11-24	GA
LAD7C1	P.O.R.	11-24	GA
LAD7C2	123.00	11-24	GA
LAD8N02	68.00	11-19, 11-35	GA
LAD8N11	68.00	11-19, 11-35	GA
LAD8N20	68.00	11-19, 11-35	GA
LAD96560	161.00	11-24	GA
LAD9R1	246.00	11-21	GA
LAD9R1V	254.00	11-21	GA
LAD9R3	442.00	11-21	GA
LAD9V12	311.00	11-21	GA
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LADN02	61.00	11-19, 11-35	GA
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LADN20	61.00	11-19, 11-35	GA	LC1D80A***	2,028.00	11-14	GA	LC1F7804*7	47,316.00	11-16	GA
LADN22	109.00	11-19, 11-35	GA	LC1D80A*7	1,259.00	11-14	GA	LC1F7804*D	47,559.00	11-16	GA
LADN31	109.00	11-19, 11-35	GA	LC1D95*7	1,861.00	11-14	GA	LC1F800*7	36,291.00	11-16	GA
LADN40	109.00	11-19, 11-35	GA	LC1D95*D	2,550.00	11-14	GA	LC1F800*D	36,291.00	11-16	GA
LADRO	284.00	11-20, 11-35	GA	LC1DFK*7	434.00	11-44	GA	LC1K0601**	131.00	11-7	GA
LADR2	284.00	11-20, 11-35	GA	LC1DGK*7	835.00	11-44	GA	LC1K0610**	131.00	11-7	GA
LADR4	342.00	11-20, 11-35	GA	LC1DLK*7	635.00	11-44	GA	LC1K09004**	135.00	11-8	GA
LADS2	330.00	11-20, 11-35	GA	LC1DMK*7	711.00	11-44	GA	LC1K09008**	135.00	11-8	GA
LADT0	272.00	11-20, 11-35	GA	LC1DPK*7	1,167.00	11-44	GA	LC1K0901**	135.00	11-7, 11-8	GA
LADT2	272.00	11-20, 11-35	GA	LC1DT20*7	241.00	11-15	GA	LC1K0910**	135.00	11-7, 11-8	GA
LADT4	339.00	11-20, 11-35	GA	LC1DT20*D	456.00	11-15	GA	LC1K12004**	263.00	11-8	GA
LADT9R1	263.00	11-21	GA	LC1DT20*L	679.00	11-15	GA	LC1K1201**	263.00	11-7, 11-8	GA
LADT9R1V	P.O.R.	11-21	GA	LC1DT25*7	255.00	11-15	GA	LC1K1210**	263.00	11-7, 11-8	GA
LC1D09***	372.00	11-14	GA	LC1DT25*D	496.00	11-15	GA	LC1K1601**	*P.O.R.	11-7	GA
LC1D09*7	139.00	11-14	GA	LC1DT25*L	709.00	11-15	GA	LC1K1610**	348.00	11-7	GA
LC1D09*D	345.00	11-14	GA	LC1DT32*7	367.00	11-15	GA	LC2K0601**	300.00	11-9	GA
LC1D09*L	266.00	11-14	GA	LC1DT32*D	707.00	11-15	GA	LC2K0610**	300.00	11-9	GA
LC1D098*7	258.00	11-15	GA	LC1DT32*L	955.00	11-15	GA	LC2K0901**	349.00	11-9	GA
LC1D098*D	447.00	11-15	GA	LC1DT40*7	473.00	11-15	GA	LC2K0910**	349.00	11-9	GA
LC1D098*L	878.00	11-15	GA	LC1DT40*D	906.00	11-15	GA	LC2K1201**	647.00	11-9	GA
LC1D115*7	2,364.00	11-14	GA	LC1DT40*L	1,253.00	11-15	GA	LC2K1210**	647.00	11-9	GA
LC1D115*D	3,195.00	11-14	GA	LC1DT60A*7	978.00	11-15	GA	LE1D09**	594.00	11-33	GA
LC1D115004*7	3,060.00	11-15	GA	LC1DT60A*D	1,941.00	11-15	GA	LE1D12**	781.00	11-33	GA
LC1D115004*D	3,903.00	11-15	GA	LC1DT80A*7	1,547.00	11-15	GA	LE1D18**	908.00	11-33	GA
LC1D12***	469.00	11-14	GA	LC1DT80A*D	2,619.00	11-15	GA	LE1D25**	1,305.00	11-33	GA
LC1D12*7	194.00	11-14	GA	LC1DTK*7	1,635.00	11-44	GA	LE1D35**	2,032.00	11-33	GA
LC1D12*D	448.00	11-14	GA	LC1DVK12*7	1,847.00	11-44	GA	LE1D40A**	3,114.00	11-33	GA
LC1D12*L	337.00	11-14	GA	LC1F1000*7	41,514.00	11-16	GA	LE1D50A**	3,402.00	11-33	GA
LC1D128*7	273.00	11-15	GA	LC1F1000*D	47,053.00	11-16	GA	LE1D65A**	3,562.00	11-33	GA
LC1D128*D	540.00	11-15	GA	LC1F115*7	3,685.00	11-16	GA	LE1M35**06	465.00	11-34	GA
LC1D150*7	2,910.00	11-14	GA	LC1F115*D	3,700.00	11-16	GA	LE1M35**07	465.00	11-34	GA
LC1D150*D	3,937.00	11-14	GA	LC1F1154*7	4,313.00	11-16	GA	LE1M35**08	465.00	11-34	GA
LC1D18***	625.00	11-14	GA	LC1F1154*D	4,508.00	11-16	GA	LE1M35**10	465.00	11-34	GA
LC1D18*7	250.00	11-14	GA	LC1F150*7	3,993.00	11-16	GA	LE1M35**12	465.00	11-34	GA
LC1D18*D	598.00	11-14	GA	LC1F150*D	4,181.00	11-16	GA	LE1M35**14	465.00	11-34	GA
LC1D18*L	393.00	11-14	GA	LC1F1504*7	5,528.00	11-16	GA	LE1M35**16	465.00	11-34	GA
LC1D188*7	393.00	11-15	GA	LC1F1504*D	5,439.00	11-16	GA	LE1M35**21	465.00	11-34	GA
LC1D188*D	781.00	11-15	GA	LC1F185*7	4,905.00	11-16	GA	LE1M35**22	465.00	11-34	GA
LC1D188*L	1,199.00	11-15	GA	LC1F185*D	5,061.00	11-16	GA	LP1D40008*D	2,045.00	11-15	GA
LC1D25***	802.00	11-14	GA	LC1F1854*7	6,829.00	11-16	GA	LP1D65008*D	P.O.R.	11-15	GA
LC1D25*7	328.00	11-14	GA	LC1F225*7	6,571.00	11-16	GA	LP1D80004*D	P.O.R.	11-15	GA
LC1D25*D	768.00	11-14	GA	LC1F225*D	6,600.00	11-16	GA	LP1D80008*D	3,091.00	11-15	GA
LC1D25*L	481.00	11-14	GA	LC1F2254*7	9,033.00	11-16	GA	LP1K0601**	194.00	11-7	GA
LC1D258*7	516.00	11-15	GA	LC1F2254*D	9,095.00	11-16	GA	LP1K0610**	194.00	11-7	GA
LC1D258*D	1,015.00	11-15	GA	LC1F265*7	7,842.00	11-16	GA	LP1K09004**	263.00	11-8	GA
LC1D258*L	1,448.00	11-15	GA	LC1F265*D	8,132.00	11-16	GA	LP1K09008**	263.00	11-8	GA
LC1D32***	1,082.00	11-14	GA	LC1F2654*7	9,412.00	11-16	GA	LP1K0901**	212.00	11-7, 11-8	GA
LC1D32*7	416.00	11-14	GA	LC1F2654*D	9,880.00	11-16	GA	LP1K0910**	212.00	11-7, 11-8	GA
LC1D32*D	1,071.00	11-14	GA	LC1F330*7	8,615.00	11-16	GA	LP1K12004**	276.00	11-8	GA
LC1D32*L	585.00	11-14	GA	LC1F330*D	8,987.00	11-16	GA	LP1K1201**	276.00	11-7, 11-8	GA
LC1D38***	1,128.00	11-14	GA	LC1F3304*7	P.O.R.	11-16	GA	LP1K1210**	276.00	11-7, 11-8	GA
LC1D38*7	574.00	11-14	GA	LC1F3304*D	13,032.00	11-16	GA	LP2K0601**	469.00	11-9	GA
LC1D38*D	1,081.00	11-14	GA	LC1F400*7	10,845.00	11-16	GA	LP2K0610**	469.00	11-9	GA
LC1D38*L	719.00	11-14	GA	LC1F400*D	10,831.00	11-16	GA	LP2K0901**	492.00	11-9	GA
LC1D40008*7	1,072.00	11-15	GA	LC1F4004*7	13,835.00	11-16	GA	LP2K0910**	492.00	11-9	GA
LC1D40A***	1,187.00	11-14	GA	LC1F4004*D	13,895.00	11-16	GA	LP2K1201**	773.00	11-9	GA
LC1D40A*7	616.00	11-14	GA	LC1F500*7	14,051.00	11-16	GA	LP2K1210**	773.00	11-9	GA
LC1D50A***	1,368.00	11-14	GA	LC1F500*D	14,040.00	11-16	GA	LP4K0601***	207.00	11-7	GA
LC1D50A*7	837.00	11-14	GA	LC1F5004*7	P.O.R.	11-16	GA	LP4K0610***	207.00	11-7	GA
LC1D65008*7	1,595.00	11-15	GA	LC1F5004*D	18,746.00	11-16	GA	LP4K09004***	304.00	11-8	GA
LC1D65A***	1,718.00	11-14	GA	LC1F630*7	18,824.00	11-16	GA	LP4K0901***	221.00	11-7, 11-8	GA
LC1D65A*7	947.00	11-14	GA	LC1F630*D	18,739.00	11-16	GA	LP4K0910***	221.00	11-7, 11-8	GA
LC1D80*7	1,187.00	11-14	GA	LC1F6304*7	30,389.00	11-16	GA	LP4K12004***	347.00	11-8	GA
LC1D80*D	2,045.00	11-14	GA	LC1F6304*D	P.O.R.	11-16	GA	LP4K1201***	347.00	11-7, 11-8	GA
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LR2K0302	207.00	11-11	GA	LRD325	541.00	11-22	GA	LV429170	1,072.00	15-10	HC
LR2K0303	207.00	11-11	GA	LRD325L	1,139.00	11-23	GA	LV429172	1,072.00	15-10	HC
LR2K0304	207.00	11-11	GA	LRD32L	726.00	11-23	GA	LV429180	4,658.00	15-10	HC
LR2K0305	207.00	11-11	GA	LRD332	541.00	11-22	GA	LV429182	4,658.00	15-10	HC
LR2K0306	207.00	11-11	GA	LRD332L	1,116.00	11-23	GA	LV429184	4,658.00	15-10	HC
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LR2K0316	207.00	11-11	GA	LRD33696	1,646.00	11-22	GA	LV429215	3,845.00	15-17	HC
LR2K0321	264.00	11-11	GA	LRD340	541.00	11-22	GA	LV429216	4,049.00	15-17	HC
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LR9F5363	1,956.00	11-25	GA	LV429003	758.00	15-9	HC	LV429269	177.00	15-17	HC
LR9F5367	1,956.00	11-25	GA	LV429004	1,298.00	15-9	HC	LV429270	109.00	15-16, 15-17, 15-27	HC
LR9F5369	2,124.00	11-25	GA	LV429006	1,069.00	15-9	HC	LV429272	579.00	15-16, 15-24	HC
LR9F5371	2,687.00	11-25	GA	LV429008	1,441.00	15-9	HC	LV429273	240.00	15-16, 15-24	HC
LR9F5557	P.O.R.	11-25	GA	LV429009	2,149.00	15-9	HC	LV429274	212.00	15-16	HC
LR9F5563	P.O.R.	11-25	GA	LV429014	757.00	15-9	HC	LV429275	107.00	15-16	HC
LR9F5567	P.O.R.	11-25	GA	LV429015	1,153.00	15-9	HC	LV429282	773.00	15-17	HC
LR9F5569	P.O.R.	11-25	GA	LV429018	1,622.00	15-9	HC	LV429283	352.00	15-17	HC
LR9F5571	P.O.R.	11-25	GA	LV429019	2,468.00	15-9	HC	LV429289	1,694.00	15-17	HC
LR9F7375	3,287.00	11-25	GA	LV429030	563.00	15-9	HC	LV429290	2,189.00	15-17	HC
LR9F7379	4,451.00	11-25	GA	LV429031	563.00	15-9	HC	LV429292	2,228.00	15-17	HC
LR9F7381	4,836.00	11-25	GA	LV429032	563.00	15-9	HC	LV429306	96.00	15-16	HC
LR9F7575	P.O.R.	11-25	GA	LV429034	563.00	15-9	HC	LV429307	116.00	15-16	HC
LR9F7579	P.O.R.	11-25	GA	LV429035	563.00	15-9	HC	LV429308	142.00	2-3, 15-12	HC
LR9F7581	P.O.R.	11-25	GA	LV429036	563.00	15-9	HC	LV429313	195.00	2-6, 15-16	HC
LRD01	174.00	11-22	GA	LV429037	563.00	15-9	HC	LV429329	97.00	2-3, 15-12, 15-16, 5-2	HC
LRD02	174.00	11-22	GA	LV429040	631.00	15-9	HC	LV429337	342.00	2-5, 15-14	HC
LRD03	174.00	11-22	GA	LV429041	631.00	15-9	HC	LV429338	457.00	2-5, 15-14	HC
LRD04	174.00	11-22	GA	LV429042	631.00	15-9	HC	LV429339	386.00	2-5, 15-14	HC
LRD04L	527.00	11-23	GA	LV429043	631.00	15-9	HC	LV429340	552.00	2-5, 15-14	HC
LRD05	175.00	11-22	GA	LV429044	631.00	15-9	HC	LV429341	237.00	2-5, 15-14	HC
LRD05L	527.00	11-23	GA	LV429046	631.00	15-9	HC	LV429342	353.00	2-5, 15-14	HC
LRD06	175.00	11-22	GA	LV429047	631.00	15-9	HC	LV429343	853.00	2-5, 15-14	HC
LRD06L	527.00	11-23	GA	LV429070	1,169.00	15-9	HC	LV429344	143.00	2-5, 15-14	HC
LRD07	174.00	11-22	GA	LV429072	1,220.00	15-9	HC	LV429354	983.00	15-14	HC
LRD07L	527.00	11-23	GA	LV429075	1,293.00	15-10	HC	LV429369	1,418.00	2-5, 15-14	HC
LRD08	175.00	11-22	GA	LV429080	1,456.00	15-9	HC	LV429371	143.00	2-5, 15-14	HC
LRD08L	527.00	11-23	GA	LV429085	1,510.00	15-10	HC	LV429382	374.00	1-8	HC
LRD10	175.00	11-22	GA	LV429086	1,561.00	15-10	HC	LV429384	374.00	1-8	HC
LRD10L	527.00	11-23	GA	LV429096	4,186.00	15-9	HC	LV429386	374.00	1-8, 2-4, 2-8, 15-13, 15-20	HC
LRD12	175.00	11-22	GA	LV429106	6,310.00	15-9	HC	LV429387	374.00	1-8, 2-4, 2-8, 15-13, 15-20	HC
LRD12L	527.00	11-23	GA	LV429110	4,573.00	15-9	HC	LV429388	374.00	1-8, 2-4, 2-8, 15-13, 15-20	HC
LRD14	175.00	11-22	GA	LV429111	4,836.00	15-9	HC	LV429389	374.00	1-8	HC
LRD14L	527.00	11-23	GA	LV429115	5,054.00	15-9	HC	LV429390	374.00	1-8, 2-4, 2-8, 15-13, 15-20	HC
LRD16	175.00	11-22	GA	LV429116	5,054.00	15-9	HC	LV429391	374.00	1-8	HC
LRD16L	527.00	11-23	GA	LV429120	1,060.00	15-10	HC				
LRD21	209.00	11-22	GA	LV429121	1,060.00	15-10	HC				
LRD21L	555.00	11-23	GA	LV429122	1,060.00	15-10	HC				
LRD22	264.00	11-22	GA	LV429123	1,060.00	15-10	HC				
LRD22L	675.00	11-23	GA	LV429124	1,060.00	15-10	HC				

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LV429393	374.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429795	1,849.00	15-8, 15-27	HC	LV430780	3,094.00	15-7	HC
LV429394	380.00	1-8	HC	LV429797	1,849.00	15-8	HC	LV430785	4,137.00	15-8, 15-27	HC
LV429406	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429805	2,540.00	15-8, 15-27	HC	LV430840	1,569.00	15-8	HC
LV429407	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429840	985.00	15-8	HC	LV430841	1,569.00	15-8	HC
LV429408	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429841	985.00	15-8	HC	LV430850	2,293.00	15-8	HC
LV429410	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429842	985.00	15-8	HC	LV430851	2,293.00	15-8	HC
LV429412	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429843	985.00	15-8	HC	LV430890	5,651.00	15-8	HC
LV429413	524.00	1-8, 2-4, 2-8, 15-13, 15-20	HC	LV429844	985.00	15-8	HC	LV431050	423.00	5-2	HC
LV429414	524.00	1-8	HC	LV429845	985.00	15-8	HC	LV431061	805.00	2-3, 15-12	HC
LV429424	1,385.00	2-4, 2-8, 15-13, 15-20	HC	LV429846	985.00	15-8	HC	LV431110	1,535.00	15-6	HC
LV429434	3,223.00	15-13, 15-27	HC	LV429847	985.00	15-8	HC	LV431111	1,535.00	15-6	HC
LV429435	3,229.00	15-13	HC	LV429850	1,562.00	15-8	HC	LV431120	2,890.00	15-6	HC
LV429449	631.00	15-14	HC	LV429851	1,562.00	15-8	HC	LV431121	2,882.00	15-6	HC
LV429451	115.00	2-4, 15-13	HC	LV429852	1,562.00	15-8	HC	LV431140	2,747.00	15-6	HC
LV429502	562.00	15-15	HC	LV429853	1,562.00	15-8	HC	LV431150	3,635.00	15-6	HC
LV429515	81.00	2-3, 15-12, 15-16, 15-17	HC	LV429854	1,562.00	15-8	HC	LV431155	9,141.00	15-6	HC
LV429516	92.00	2-3, 15-12, 15-16, 15-17	HC	LV429855	1,562.00	15-8	HC	LV431390	1,387.00	15-9	HC
LV429517	95.00	2-3, 15-12, 15-16	HC	LV429856	1,562.00	15-8	HC	LV431391	3,854.00	15-9	HC
LV429518	109.00	2-3, 15-12, 15-16	HC	LV429857	1,562.00	15-8	HC	LV431395	1,927.00	15-9	HC
LV429550	728.00	15-6	HC	LV429872	4,871.00	15-6	HC	LV431396	5,947.00	15-9	HC
LV429551	728.00	15-6	HC	LV429877	5,876.00	15-6	HC	LV431403	1,634.00	15-9	HC
LV429552	728.00	15-6	HC	LV429885	6,045.00	15-7	HC	LV431404	2,446.00	15-9	HC
LV429553	728.00	15-6	HC	LV429890	5,274.00	15-8	HC	LV431406	2,088.00	15-9	HC
LV429554	728.00	15-6	HC	LV429892	5,274.00	15-8	HC	LV431408	2,263.00	15-9	HC
LV429555	728.00	15-6	HC	LV430310	1,267.00	15-6	HC	LV431409	4,187.00	15-9	HC
LV429556	728.00	15-6	HC	LV430311	1,267.00	15-6	HC	LV431411	2,624.00	15-9	HC
LV429557	728.00	15-6	HC	LV430320	1,843.00	15-6	HC	LV431430	918.00	15-9	HC
LV429560	1,157.00	15-6	HC	LV430321	1,843.00	15-6	HC	LV431431	912.00	15-9	HC
LV429561	1,157.00	15-6	HC	LV430390	1,296.00	15-9	HC	LV431432	756.00	15-9	HC
LV429562	1,157.00	15-6	HC	LV430391	3,603.00	15-9	HC	LV431440	997.00	15-9	HC
LV429563	1,157.00	15-6	HC	LV430395	1,538.00	15-9	HC	LV431442	1,090.00	15-9	HC
LV429564	1,157.00	15-6	HC	LV430396	3,952.00	15-9	HC	LV431470	1,894.00	15-9	HC
LV429565	1,157.00	15-6	HC	LV430403	1,535.00	15-9	HC	LV431480	2,257.00	15-9	HC
LV429566	1,157.00	15-6	HC	LV430404	2,078.00	15-9	HC	LV431485	2,224.00	15-10	HC
LV429567	1,157.00	15-6	HC	LV430406	1,804.00	15-9	HC	LV431491	5,180.00	15-9	HC
LV429630	887.00	15-7	HC	LV430408	2,118.00	15-9	HC	LV431500	1,410.00	15-10	HC
LV429631	885.00	15-7	HC	LV430409	3,002.00	15-9	HC	LV431505	5,941.00	15-9	HC
LV429632	867.00	15-7	HC	LV430410	4,562.00	15-9	HC	LV431506	6,167.00	15-9	HC
LV429633	867.00	15-7	HC	LV430411	2,291.00	15-9	HC	LV431510	1,509.00	15-10	HC
LV429634	867.00	15-7	HC	LV430411	2,291.00	15-9	HC	LV431515	6,788.00	15-9	HC
LV429635	855.00	15-7	HC	LV430430	722.00	15-9	HC	LV431516	7,155.00	15-9	HC
LV429636	855.00	15-7	HC	LV430431	623.00	15-9	HC	LV431520	1,780.00	15-10	HC
LV429637	855.00	15-7	HC	LV430440	792.00	15-9	HC	LV431521	6,236.00	15-10	HC
LV429640	1,494.00	15-7	HC	LV430470	1,409.00	15-9	HC	LV431534	5,878.00	15-17	HC
LV429641	1,494.00	15-7	HC	LV430475	1,610.00	15-10	HC	LV431535	5,575.00	15-17	HC
LV429642	1,494.00	15-7	HC	LV430480	1,872.00	15-9	HC	LV431536	5,922.00	15-17	HC
LV429643	1,494.00	15-7	HC	LV430485	1,888.00	15-10	HC	LV431541	4,013.00	15-13, 15-27	HC
LV429644	1,494.00	15-7	HC	LV430490	4,430.00	15-9	HC	LV431542	3,983.00	15-13	HC
LV429645	1,494.00	15-7	HC	LV430491	4,400.00	15-9	HC	LV431563	146.00	2-3, 15-12	HC
LV429646	1,494.00	15-7	HC	LV430496	4,968.00	15-9	HC	LV431564	198.00	2-3, 15-12	HC
LV429770	1,430.00	15-7	HC	LV430500	1,367.00	15-10	HC	LV431630	1,866.00	15-7	HC
LV429772	1,430.00	15-7	HC	LV430505	5,034.00	15-9	HC	LV431631	1,866.00	15-7	HC
LV429775	1,411.00	15-6	HC	LV430506	5,238.00	15-9	HC	LV431640	3,178.00	15-7	HC
LV429777	1,411.00	15-6	HC	LV430510	1,238.00	15-10	HC	LV431641	3,178.00	15-7	HC
LV429780	2,432.00	15-6	HC	LV430515	5,903.00	15-9	HC	LV431770	2,884.00	15-7	HC
LV429785	2,281.00	15-6	HC	LV430516	6,126.00	15-9	HC	LV431780	4,038.00	15-7	HC
				LV430520	1,329.00	15-10	HC	LV431830	2,132.00	15-8	HC
				LV430521	5,020.00	15-10	HC	LV431831	2,132.00	15-8	HC
				LV430554	290.00	15-15	HC	LV431840	3,383.00	15-8	HC
				LV430630	1,442.00	15-7	HC	LV431841	3,383.00	15-8	HC
				LV430631	1,389.00	15-7	HC	LV431860	6,409.00	15-7	HC
				LV430640	2,135.00	15-7	HC	LV431870	3,113.00	15-8, 15-27	HC
				LV430641	2,135.00	15-7	HC	LV431875	4,641.00	15-8, 15-27	HC
				LV430750	2,912.00	15-6	HC	LV431880	6,683.00	15-8	HC
				LV430770	2,226.00	15-7	HC	LV432068	2,253.00	15-11	HC

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MIP12106	133.40	6-27	DC	MVS21801	840.00	3-3	HD	MIP12118	219.20	6-27	DC
MIP12106T	155.60	6-27	DC	MVS21802	840.00	3-3	HD	MIP12118T	233.70	6-27	DC
MIP12108	165.30	6-27	DC	MVS21803	840.00	3-3	HD	MIP12212	247.40	6-27	DC
MIP12108T	171.50	6-27	DC	MVS21804	840.00	3-3	HD	MIP12212T	377.40	6-27	DC
MIP12112	191.80	6-27	DC	MVS25H3MF0PS	29,643.00	3-2	HD	MIP12312	306.40	6-27	DC
MIP12112T	176.20	6-27	DC	MVS25H3MW0PS	34,123.00	3-2	HD	MIP12312T	491.20	6-27	DC
MIP12118	219.20	6-27	DC	MVS25H4MF0PS	35,498.00	3-2	HD	MIP22104	187.00	6-28	DC
MIP12118T	233.70	6-27	DC	MVS25H4MW0PS	39,771.00	3-2	HD	MIP22104T	206.90	6-28	DC
MIP12212	247.40	6-27	DC	MVS25N3MF0PS	24,945.00	3-1	HD	MIP22106	197.00	6-28	DC
MIP12212T	377.40	6-27	DC	MVS25N3MW0PS	29,005.00	3-1	HD	MIP22106T	216.90	6-28	DC
MIP12312	306.40	6-27	DC	MVS25N4MF0PS	29,987.00	3-1	HD	MIP22108	210.90	6-28	DC
MIP12312T	491.20	6-27	DC	MVS25N4MW0PS	33,807.00	3-1	HD	MIP22108T	232.90	6-28	DC
MIP22104	187.00	6-28	DC	MVS32H3MF0PS	38,053.00	3-2	HD	MIP22112	232.90	6-28	DC
MIP22104T	206.90	6-28	DC	MVS32H3MW0PS	43,000.00	3-2	HD	MIP22112T	258.60	6-28	DC
MIP22106	197.00	6-28	DC	MVS32H4MF0PS	44,891.00	3-2	HD	MIP22118	281.40	6-28	DC
MIP22106T	216.90	6-28	DC	MVS32H4MW0PS	50,299.00	3-2	HD	MIP22118T	277.80	6-28	DC
MIP22108	210.90	6-28	DC	MVS32N3MF0PS	32,015.00	3-1	HD	MIP22212	247.10	6-28	DC
MIP22108T	232.90	6-28	DC	MVS32N3MW0PS	36,551.00	3-1	HD	MIP22212T	299.90	6-28	DC
MIP22112	232.90	6-28	DC	MVS32N4MF0PS	38,160.00	3-1	HD	MIP22312	409.90	6-28	DC
MIP22112T	258.60	6-28	DC	MVS32N4MW0PS	42,753.00	3-1	HD	MIP22312T	560.70	6-28	DC
MIP22118	281.40	6-28	DC	MVS40H3MF0PS	55,916.00	3-2	HD	MVS08H3MF0PS	14,937.00	3-2	HD
MIP22118T	277.80	6-28	DC	MVS40H3MW0PS	51,940.00	3-2	HD	MVS08H3MW0PS	16,740.00	3-2	HD
MIP22212	247.10	6-28	DC	MVS40H4MF0PS	52,086.00	3-2	HD	MVS08H4MF0PS	17,776.00	3-2	HD
MIP22212T	299.90	6-28	DC	MVS40H4MW0PS	58,359.00	3-2	HD	MVS08H4MW0PS	19,920.00	3-2	HD
MIP22312	409.90	6-28	DC	MVS40N3MF0PS	39,404.00	3-1	HD	MVS08N3MF0PS	12,603.00	3-1	HD
MIP22312T	560.70	6-28	DC	MVS40N3MW0PS	44,149.00	3-1	HD	MVS08N3MW0PS	14,226.00	3-1	HD
MVS08H3MF0PS	14,937.00	3-2	HD	MVS40N4MF0PS	44,273.00	3-1	HD	MVS08N4MF0PS	15,109.00	3-1	HD
MVS08H3MW0PS	16,740.00	3-2	HD	MVS40N4MW0PS	50,526.00	3-1	HD	MVS08N4MW0PS	16,930.00	3-1	HD
MVS08H4MF0PS	17,776.00	3-2	HD					MVS10H3MF0PS	15,220.00	3-2	HD
MVS08H4MW0PS	19,920.00	3-2	HD	N				MVS10H3MW0PS	17,319.00	3-2	HD
MVS08N3MF0PS	12,603.00	3-1	HD	METSEDM6000HCL10NC	762.20	8-1	ED	MVS10H4MF0PS	17,981.00	3-2	HD
MVS08N3MW0PS	14,226.00	3-1	HD	METSEDM6200HCL10RS	860.10	8-1	ED	MVS10H4MW0PS	21,710.00	3-2	HD
MVS08N4MF0PS	15,109.00	3-1	HD	METSEPM1125HCL05RD	1,493.50	8-2	ED	MVS10N3MF0PS	13,140.00	3-1	HD
MVS08N4MW0PS	16,930.00	3-1	HD	METSEPM2120	2,163.00	8-3	ED	MVS10N3MW0PS	14,722.00	3-1	HD
MVS10H3MF0PS	15,220.00	3-2	HD	METSEPM2130	2,163.00	8-3	ED	MVS10N4MF0PS	15,286.00	3-1	HD
MVS10H3MW0PS	17,319.00	3-2	HD	METSEPM2220	2,369.00	8-3	ED	MVS10N4MW0PS	18,453.00	3-1	HD
MVS10H4MF0PS	17,981.00	3-2	HD	METSEPM2230	2,369.00	8-3	ED	MVS12H3MF0PS	16,744.00	3-2	HD
MVS10H4MW0PS	21,710.00	3-2	HD	METSEPM5100	3,274.40	8-4	HG	MVS12H3MW0PS	18,790.00	3-2	HD
MVS10N3MF0PS	13,140.00	3-1	HD	METSEPM5110	4,179.80	8-4	HG	MVS12H4MF0PS	20,347.00	3-2	HD
MVS10N3MW0PS	14,722.00	3-1	HD	METSEPM5111	4,421.80	8-4	HG	MVS12H4MW0PS	23,045.00	3-2	HD
MVS10N4MF0PS	15,286.00	3-1	HD	METSEPM5310	4,692.70	8-4	HG	MVS12N3MF0PS	14,235.00	3-1	HD
MVS10N4MW0PS	18,453.00	3-1	HD	METSEPM5320	5,041.90	8-4	HG	MVS12N3MW0PS	15,947.00	3-1	HD
MVS12H3MF0PS	16,744.00	3-2	HD	METSEPM5330	5,014.10	8-4	HG	MVS12N4MF0PS	17,297.00	3-1	HD
MVS12H3MW0PS	18,790.00	3-2	HD	METSEPM5331	5,018.20	8-4	HG	MVS12N4MW0PS	19,396.00	3-1	HD
MVS12H4MF0PS	20,347.00	3-2	HD	METSEPM5340	5,420.90	8-4	HG	MVS16H3MF0PS	17,989.00	3-2	HD
MVS12H4MW0PS	23,045.00	3-2	HD	METSEPM5341	5,459.00	8-4	HG	MVS16H3MW0PS	20,155.00	3-2	HD
MVS12N3MF0PS	14,235.00	3-1	HD	METSEPM5560	9,614.10	8-5	HG	MVS16H4MF0PS	21,723.00	3-2	HD
MVS12N3MW0PS	15,947.00	3-1	HD	METSEPM5561	12,836.90	8-5	HG	MVS16H4MW0PS	24,340.00	3-2	HD
MVS12N4MF0PS	17,297.00	3-1	HD	METSEPM5563	12,699.90	8-5	HG	MVS16N3MF0PS	15,266.00	3-1	HD
MVS12N4MW0PS	19,396.00	3-1	HD	METSEPM5570	10,550.30	8-5	HG	MVS16N3MW0PS	17,132.00	3-1	HD
MVS16H3MF0PS	17,989.00	3-2	HD	METSEPM5577	10,660.50	8-5	HG	MVS16N4MF0PS	17,584.00	3-1	HD
MVS16H3MW0PS	20,155.00	3-2	HD	METSEPM5580	11,917.10	8-5	HG	MVS16N4MW0PS	20,688.00	3-1	HD
MVS16H4MF0PS	21,723.00	3-2	HD	METSEPM5650	11,917.10	8-5	HG	MVS20H3MF0PS	24,188.00	3-2	HD
MVS16H4MW0PS	24,340.00	3-2	HD	METSEPM5660	11,917.10	8-5	HG	MVS20H3MW0PS	27,424.00	3-2	HD
MVS16N3MF0PS	15,266.00	3-1	HD	METSEPM5661	12,123.10	8-5	HG	MVS20H4MF0PS	29,348.00	3-2	HD
MVS16N3MW0PS	17,132.00	3-1	HD	METSEPM5760	11,917.10	8-5	HG	MVS20H4MW0PS	32,883.00	3-2	HD
MVS16N4MF0PS	17,584.00	3-1	HD	METSEPM5761	12,123.10	8-5	HG	MVS20N3MF0PS	20,349.00	3-1	HD
MVS16N4MW0PS	20,688.00	3-1	HD	METSEPM5RD	2,708.90	8-5	HG	MVS20N3MW0PS	23,312.00	3-1	HD
MVS20H3MF0PS	24,188.00	3-2	HD	MIP12104	121.60	6-27	DC	MVS20N4MF0PS	24,808.00	3-1	HD
MVS20H3MW0PS	27,424.00	3-2	HD	MIP12104T	139.40	6-27	DC	MVS20N4MW0PS	27,950.00	3-1	HD
MVS20H4MF0PS	29,348.00	3-2	HD	MIP12106	133.40	6-27	DC	MVS21801	840.00	3-3	HD
MVS20H4MW0PS	32,883.00	3-2	HD	MIP12106T	155.60	6-27	DC	MVS21802	840.00	3-3	HD
MVS20N3MF0PS	20,349.00	3-1	HD	MIP12108	165.30	6-27	DC	MVS21803	840.00	3-3	HD
MVS20N3MW0PS	23,312.00	3-1	HD	MIP12108T	171.50	6-27	DC	MVS21804	840.00	3-3	HD
MVS20N4MF0PS	24,808.00	3-1	HD	MIP12112	191.80	6-27	DC	MVS25H3MF0PS	29,643.00	3-2	HD

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Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG
MVS25H3MWOPS	34,123.00	3-2	HD	RE22R2QTMR	526.00	12-13	GC	RM22TR33	1,017.00	12-10	GC
MVS25H4MFOPS	35,498.00	3-2	HD	REL15000	3,370.00	10-1	JB	RM22TU21	570.00	12-10	GC
MVS25H4MWOPS	39,771.00	3-2	HD	REL15001	3,370.00	10-1	JB	RM22TU23	578.00	12-10	GC
MVS25N3MFOPS	24,945.00	3-1	HD	REL15002	3,660.00	10-1	JB	RM22UA21MR	829.00	12-10	GC
MVS25N3MWOPS	29,005.00	3-1	HD	REL15003	3,660.00	10-1	JB	RM22UA22MR	829.00	12-10	GC
MVS25N4MFOPS	29,987.00	3-1	HD	REL15004	4,010.00	10-1	JB	RM22UA23MR	829.00	12-10	GC
MVS25N4MWOPS	33,807.00	3-1	HD	REL15005	4,010.00	10-1	JB	RM22UA31MR	1,034.00	12-10	GC
MVS32H3MFOPS	38,053.00	3-2	HD	REL15006	4,010.00	10-1	JB	RM22UA32MR	1,034.00	12-10	GC
MVS32H3MWOPS	43,000.00	3-2	HD	REL15007	4,010.00	10-1	JB	RM22UA33MR	1,046.00	12-10	GC
MVS32H4MFOPS	44,891.00	3-2	HD	REL15008	4,010.00	10-1	JB	RM22UA33MT	1,188.00	12-10	GC
MVS32H4MWOPS	50,299.00	3-2	HD	REL15009	4,010.00	10-1	JB	RM22UB34	1,050.00	12-10	GC
MVS32N3MFOPS	32,015.00	3-1	HD	REL15010	4,450.00	10-1	JB	RM35ATL0MW	859.00	12-9	GC
MVS32N3MWOPS	36,551.00	3-1	HD	REL15011	4,450.00	10-1	JB	RM35ATR5MW	878.00	12-9	GC
MVS32N4MFOPS	38,160.00	3-1	HD	REL15012	4,450.00	10-1	JB	RM35BA10	959.00	12-9	GC
MVS32N4MWOPS	42,753.00	3-1	HD	REL15013	4,450.00	10-1	JB	RM35HZ21FM	1,294.00	12-8	GC
MVS40H3MFOPS	55,916.00	3-2	HD	REL15014	4,450.00	10-1	JB	RM35JA31MW	1,070.00	12-8	GC
MVS40H3MWOPS	51,940.00	3-2	HD	REL15015	4,450.00	10-1	JB	RM35JA32MR	920.00	12-11	GC
MVS40H4MFOPS	52,086.00	3-2	HD	REL15016	4,450.00	10-1	JB	RM35JA32MT	1,065.00	12-11	GC
MVS40H4MWOPS	58,359.00	3-2	HD	REL15017	4,450.00	10-1	JB	RM35JA32MW	1,084.00	12-8	GC
MVS40N3MFOPS	39,404.00	3-1	HD	REL15020	4,680.00	10-1	JB	RM35LM33MW	659.00	12-7	GC
MVS40N3MWOPS	44,149.00	3-1	HD	REL15021	4,680.00	10-1	JB	RM35LV14MW	745.00	12-7	GC
MVS40N4MFOPS	44,273.00	3-1	HD	REL15022	4,680.00	10-1	JB	RM35S0MW	773.00	12-7	GC
MVS40N4MWOPS	50,526.00	3-1	HD	REL15023	4,680.00	10-1	JB	RM35TF30	1,045.00	12-6	GC
				REL15024	4,980.00	10-1	JB	RM35TM250MW	882.00	12-9	GC
				REL15025	4,980.00	10-1	JB	RM35TM50MW	894.00	12-9	GC
R				REL15026	6,000.00	10-1	JB	RM35UA11MW	828.00	12-8	GC
RE17LAMW	255.00	12-12	GC	REL15027	6,000.00	10-1	JB	RM35UA12MW	828.00	12-8	GC
RE17LCBM	303.00	12-12	GC	REL15028	6,000.00	10-1	JB	RM35UA13MW	838.00	12-8	GC
RE17LHBM	288.00	12-12	GC	REL15029	6,000.00	10-1	JB	RM35UB330	1,258.00	12-6	GC
RE17LLBM	288.00	12-12	GC	REL15030	6,440.00	10-1	JB	RM35UB3N30	1,269.00	12-6	GC
RE17LMBM	332.00	12-12	GC	REL15031	6,440.00	10-1	JB	RPM11B7	62.00	12-5	GC
RE17RAMU	198.00	12-12	GC	REL15032	6,440.00	10-1	JB	RPM11BD	52.00	12-5	GC
RE17RBMU	230.00	12-12	GC	REL15033	6,440.00	10-1	JB	RPM11E7	62.00	12-5	GC
RE17RCMU	230.00	12-12	GC	REXL2TMB7	268.00	12-14	GC	RPM11F7	62.00	12-5	GC
RE17RHMU	230.00	12-12	GC	REXL2TMBD	267.00	12-14	GC	RPM11FD	52.00	12-5	GC
RE17RLJU	350.00	12-12	GC	REXL2TMF7	265.00	12-14	GC	RPM11JD	52.00	12-5	GC
RE17RLMU	353.00	12-12	GC	REXL2TMJD	306.00	12-14	GC	RPM11P7	62.00	12-5	GC
RE17RMEMU	296.00	12-12	GC	REXL2TMP7	266.00	12-14	GC	RPM12B7	59.00	12-5	GC
RE17RMJU	328.00	12-12	GC	REXL4TMB7	303.00	12-14	GC	RPM12BD	59.00	12-5	GC
RE17RMMU	329.00	12-12	GC	REXL4TMBD	316.00	12-14	GC	RPM12F7	59.00	12-5	GC
RE17RMMW	332.00	12-12	GC	REXL4TMF7	307.00	12-14	GC	RPM12P7	59.00	12-5	GC
RE17RMMWS	332.00	12-12	GC	REXL4TMP7	303.00	12-14	GC	RPM21B7	65.00	12-5	GC
RE17RMXMU	296.00	12-12	GC	RGZE1S35M	28.00	12-2	GC	RPM21BD	67.00	12-5	GC
RE22R1ACMR	656.00	12-13	GC	RGZE1S48M	29.00	12-2	GC	RPM21E7	65.00	12-5	GC
RE22R1AKMR	795.00	12-13	GC	RM17J00MW	648.00	12-8	GC	RPM21F7	65.00	12-5	GC
RE22R1AMR	421.00	12-13	GC	RM17TA00	661.00	12-6	GC	RPM21JD	67.00	12-5	GC
RE22R1CMR	480.00	12-13	GC	RM17TE00	661.00	12-6	GC	RPM21P7	65.00	12-5	GC
RE22R1DMR	504.00	12-13	GC	RM17TG00	375.00	12-6	GC	RPM22B7	76.00	12-5	GC
RE22R1HMR	445.00	12-13	GC	RM17TG20	454.00	12-6	GC	RPM22BD	79.00	12-5	GC
RE22R1KMR	613.00	12-13	GC	RM17TT00	382.00	12-6	GC	RPM22F7	76.00	12-5	GC
RE22R1MAMR	511.00	12-13	GC	RM17TU00	582.00	12-6	GC	RPM22P7	76.00	12-5	GC
RE22R1MKMR	407.00	12-13	GC	RM17UAS14	586.00	12-8	GC	RPM31B7	84.00	12-5	GC
RE22R1MLMR	677.00	12-13	GC	RM17UAS15	586.00	12-8	GC	RPM31BD	92.00	12-5	GC
RE22R1MYMR	645.00	12-13	GC	RM17UAS16	586.00	12-8	GC	RPM31E7	84.00	12-5	GC
RE22R1QCMU	224.00	12-13	GC	RM17UB310	897.00	12-6	GC	RPM31F7	84.00	12-5	GC
RE22R2ACMR	707.00	12-13	GC	RM17UBE15	448.00	12-8	GC	RPM31FD	92.00	12-5	GC
RE22R2AMR	562.00	12-13	GC	RM17UBE16	643.00	12-8	GC	RPM31JD	92.00	12-5	GC
RE22R2CMR	612.00	12-13	GC	RM22JA21MR	817.00	12-11	GC	RPM32B7	106.00	12-5	GC
RE22R2DMR	620.00	12-13	GC	RM22JA31MR	909.00	12-11	GC	RPM32BD	113.00	12-5	GC
RE22R2HMR	599.00	12-13	GC	RM22LA32MR	956.00	12-7	GC	RPM32F7	106.00	12-5	GC
RE22R2KMR	750.00	12-13	GC	RM22LG11MR	560.00	12-7	GC	RPM32P7	106.00	12-5	GC
RE22R2MWMR	534.00	12-13	GC	RM22LG11MT	560.00	12-7	GC	RPM41B7	98.00	12-5	GC
RE22R2MYMR	718.00	12-13	GC	RM22TA31	449.00	12-10	GC	RPM41BD	98.00	12-5	GC
RE22R2QEMR	271.00	12-13	GC	RM22TA33	815.00	12-10	GC	RPM41E7	98.00	12-5	GC
RE22R2QEMT	265.00	12-13	GC	RM22TG20	264.00	12-10	GC	RPM41F7	98.00	12-5	GC
RE22R2QGMR	524.00	12-13	GC	RM22TR31	974.00	12-10	GC	RPM41FD	98.00	12-5	GC

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RPM41JD	98.00	12-5	GC	RXG13BD	52.00	12-2	GC	RZM031BN	33.00	12-1	GC
RPM41P7	98.00	12-5	GC	RXG13P7	65.00	12-2	GC	RZM031RB	33.00	12-1	GC
RPM42B7	109.00	12-5	GC	RXG15BD	47.00	12-2	GC	RZM040W	14.00	12-1, 12-2	GC
RPM42BD	109.00	12-5	GC	RXG15F7	60.00	12-2	GC	RZM041FU7	25.00	12-1, 12-2	GC
RPM42F7	109.00	12-5	GC	RXG15P7	60.00	12-2	GC				
RPM42P7	109.00	12-5	GC	RXG23B7	72.00	12-2	GC	S			
RPZF1	43.00	12-5	GC	RXG23BD	58.00	12-2	GC	SP-59603-S20-8-0	4,638.00	10-2	JB
RPZF2	62.00	12-5	GC	RXG23F7	72.00	12-2	GC	SP-59604-G40-8-9-6	20,391.00	10-5	JB
RPZF3	67.00	12-5	GC	RXG23P7	72.00	12-2	GC	SP-59604-M40-8-9-6	15,724.00	10-4	JB
RPZF4	71.00	12-5	GC	RXG25BD	54.00	12-2	GC	SP-59604-M41-8-0-6	21,399.00	10-4	JB
RPZR235	12.00	12-5	GC	RXG25P7	66.00	12-2	GC	SP-59604-M41-8-9-6	27,615.00	10-4	JB
RSB1A120B7	55.00	12-1	GC	RXM021BN	22.00	12-3	GC	SP-59604-S40-8-0-6	12,317.00	10-2	JB
RSB1A120BD	55.00	12-1	GC	RXM021FP	22.00	12-3	GC	SP-59604-S40-8-9-6	15,265.00	10-2	JB
RSB1A120E7	55.00	12-1	GC	RXM021RB	22.00	12-3	GC	SP-59604-S41-8-0-6	18,358.00	10-2	JB
RSB1A120F7	55.00	12-1	GC	RXM040W	15.00	12-3,12-5	GC	SP-59604-S42-8-0-6	27,832.00	10-2	JB
RSB1A120JD	55.00	12-1	GC	RXM041BN7	33.00	12-3	GC	SP-59604-S42-8-9-6	27,832.00	10-2	JB
RSB1A120M7	55.00	12-1	GC	RXM2AB1B7	43.00	12-3	GC	SP-59604-T40-8-0-6	14,462.00	10-3	JB
RSB1A120P7	55.00	12-1	GC	RXM2AB1BD	45.00	12-3	GC	SP-59604-T40-8-9-6	16,779.00	10-3	JB
RSB1A120U7	55.00	12-1	GC	RXM2AB1E7	45.00	12-3	GC	SP-59607-B21-8-2	7,116.00	10-6	JB
RSB1A160B7	55.00	12-1	GC	RXM2AB1F7	45.00	12-3	GC	SP-59607-M20-8-0	9,714.00	10-4	JB
RSB1A160BD	55.00	12-1	GC	RXM2AB1JD	45.00	12-3	GC	SP-59607-M20-8-9	9,714.00	10-4	JB
RSB1A160E7	55.00	12-1	GC	RXM2AB1P7	45.00	12-3	GC	SP-59607-S20-8-0	5,299.00	10-2	JB
RSB1A160E7	55.00	12-1	GC	RXM2AB2B7	48.00	12-3	GC	SP-59607-S20-8-9	5,299.00	10-2	JB
RSB1A160JD	55.00	12-1	GC	RXM2AB2BD	46.00	12-3	GC	SP-59607-T20-8-0	8,074.00	10-3	JB
RSB1A160M7	55.00	12-1	GC	RXM2AB2E7	48.00	12-3	GC	SP-59607-T20-8-9	8,027.00	10-3	JB
RSB1A160P7	55.00	12-1	GC	RXM2AB2F7	48.00	12-3	GC	SP-59704-B80-8-9	17,469.00	10-6	JB
RSB2A080B7	60.00	12-1	GC	RXM2AB2JD	46.00	12-3	GC	SP-59704-B83-8-9	40,040.00	10-6	JB
RSB2A080BD	60.00	12-1	GC	RXM2AB2P7	48.00	12-3	GC	SP-59704-C86-8-9	29,570.00	10-7	JB
RSB2A080E7	60.00	12-1	GC	RXM3AB1B7	47.00	12-3	GC	SP-59704-G82-8-0	60,728.00	10-5	JB
RSB2A080F7	60.00	12-1	GC	RXM3AB1BD	43.00	12-3	GC	SP-59704-G82-8-9	60,728.00	10-5	JB
RSB2A080JD	60.00	12-1	GC	RXM3AB1E7	47.00	12-3	GC	SP-59704-G87-8-0	69,507.00	10-5	JB
RSB2A080M7	60.00	12-1	GC	RXM3AB1F7	47.00	12-3	GC	SP-59704-G87-8-9	69,507.00	10-5	JB
RSB2A080P7	60.00	12-1	GC	RXM3AB1JD	43.00	12-3	GC	SP-59704-G88-8-0	80,104.00	10-5	JB
RSB2A080U7	60.00	12-1	GC	RXM3AB1P7	47.00	12-3	GC	SP-59704-G88-8-9	80,104.00	10-5	JB
RSZE1S35M	43.00	12-1	GC	RXM3AB2B7	53.00	12-3	GC	SP-59704-M81-8-0	37,844.00	10-4	JB
RSZE1S48M	47.00	12-1	GC	RXM3AB2BD	48.00	12-3	GC	SP-59704-M81-8-9	37,012.00	10-4	JB
RSZL300	6.00	12-1	GC	RXM3AB2F7	53.00	12-3	GC	SP-59704-M87-8-0	51,274.00	10-4	JB
RSZR215	7.00	12-1	GC	RXM3AB2JD	48.00	12-3	GC	SP-59704-M87-8-9	51,439.00	10-4	JB
RUMC21B7	98.00	12-4	GC	RXM3AB2P7	53.00	12-3	GC	SP-59704-S80-8-0	25,533.00	10-2	JB
RUMC21BD	100.00	12-4	GC	RXM4AB1B7	48.00	12-3	GC	SP-59704-S80-8-9	25,533.00	10-2	JB
RUMC21F7	98.00	12-4	GC	RXM4AB1BD	45.00	12-3	GC	SP-59704-S81-8-0	32,093.00	10-2	JB
RUMC21FD	100.00	12-4	GC	RXM4AB1E7	48.00	12-3	GC	SP-59704-S81-8-9	32,093.00	10-2	JB
RUMC21JD	100.00	12-4	GC	RXM4AB1F7	48.00	12-3	GC	SP-59704-S82-8-0	47,610.00	10-2	JB
RUMC21P7	98.00	12-4	GC	RXM4AB1JD	45.00	12-3	GC	SP-59704-S82-8-9	47,610.00	10-2	JB
RUMC22B7	102.00	12-4	GC	RXM4AB1P7	48.00	12-3	GC	SP-59704-T81-8-0	39,284.00	10-3	JB
RUMC22BD	105.00	12-4	GC	RXM4AB1U7	48.00	12-3	GC	SP-59704-T81-8-9	39,284.00	10-3	JB
RUMC22F7	102.00	12-4	GC	RXM4AB2B7	54.00	12-3	GC	SP-59704-T82-8-0	54,799.00	10-3	JB
RUMC22JD	105.00	12-4	GC	RXM4AB2BD	48.00	12-3	GC	SP-59704-T87-8-0	66,909.00	10-3	JB
RUMC22P7	102.00	12-4	GC	RXM4AB2E7	54.00	12-3	GC	SP-59704-T87-8-9	64,960.00	10-3	JB
RUMC31B7	112.00	12-4	GC	RXM4AB2F7	54.00	12-3	GC	SP-59705-B83-8-0	44,375.00	10-6	JB
RUMC31BD	114.00	12-4	GC	RXM4AB2JD	48.00	12-3	GC	SP-59705-M81-8-9	40,671.00	10-4	JB
RUMC31F7	112.00	12-4	GC	RXM4AB2P7	54.00	12-3	GC	SP-59705-S80-8-0	35,998.00	10-2	JB
RUMC31FD	114.00	12-4	GC	RXZ400	8.00	12-3	GC	SP-59705-S82-8-0	38,514.00	10-2	JB
RUMC31JD	114.00	12-4	GC	RXZE2M114	32.00	12-14, 12-3	GC	SP-59705-T81-8-0	38,983.00	10-3	JB
RUMC31P7	112.00	12-4	GC	RXZE2M114M	36.00	12-14, 12-3	GC	SP-59705-T87-8-0	54,379.00	10-3	JB
RUMC32B7	117.00	12-4	GC	RXZE2S108M	34.00	12-14, 12-3	GC	SP-59836-G60-8-9	20,875.00	10-5	JB
RUMC32BD	121.00	12-4	GC	RXZE2S111M	35.00	12-3	GC	SP-59836-S60-8-0	13,298.00	10-2	JB
RUMC32F7	117.00	12-4	GC	RXZE2S114M	39.00	12-14, 12-3	GC	SP-59836-S60-8-9	13,298.00	10-2	JB
RUMC32JD	121.00	12-4	GC	RXZL420	6.00	12-3	GC	SP-59836-T60-8-9	20,362.00	10-3	JB
RUMC32P7	117.00	12-4	GC	RXZL520	61.00	12-3, 12-4	GC	SR2A101BD	858.00	12-15	MB
RUW240BD	22.00	12-4, 12-5	GC	RXZR335	7.00	12-3	GC	SR2A101FU	886.00	12-15	MB
RUZC200	10.00	12-4	GC	RXZS2	7.00	12-3	GC	SR2A201BD	1,281.00	12-15	MB
RUZC2M	38.00	12-4	GC	RZM021BN	37.00	12-1	GC	SR2A201FU	1,318.00	12-15	MB
RUZC3M	39.00	12-4	GC	RZM021FP	37.00	12-1	GC	SR2B121B	948.00	12-15	MB
RUZSC2M	57.00	12-4	GC	RZM021RB	37.00	12-1	GC	SR2B121BD	944.00	12-15	MB
RUZSC3M	58.00	12-4	GC								
RUZSF3M	62.00	12-4	GC								

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Reference	Price (RM)	Page	MPG
SR2B121FU	1,006.00	12-15	MB
SR2B121JD	1,016.00	12-15	MB
SR2B122BD	904.00	12-15	MB
SR2B201B	1,434.00	12-15	MB
SR2B201BD	1,423.00	12-15	MB
SR2B201FU	1,452.00	12-15	MB
SR2B201JD	1,434.00	12-15	MB
SR2CBL01	586.00	12-17, 12-19	MB
SR2COM01	1,081.00	12-17	MB
SR2D101BD	726.00	12-15	MB
SR2D101FU	771.00	12-15	MB
SR2D201FU	1,185.00	12-15	MB
SR2E121B	844.00	12-15	MB
SR2E121BD	810.00	12-15	MB
SR2E121FU	803.00	12-15	MB
SR2E201BD	1,170.00	12-15	MB
SR2E201FU	1,221.00	12-15	MB
SR2MEM02	211.00	12-17, 12-19	MB
SR2PACK2BD	1,774.00	12-15	MB
SR2PACK2FU	1,844.00	12-15	MB
SR2PACKFU	1,465.00	12-15	MB
SR2SFT01	355.00	12-17	MB
SR2USB01	509.00	12-17, 12-19	MB
SR3B101BD	1,095.00	12-16	MB
SR3B101FU	996.00	12-16	MB
SR3B102BD	929.00	12-16	MB
SR3B261B	2,004.00	12-16	MB
SR3B261BD	1,610.00	12-16	MB
SR3B261FU	1,667.00	12-16	MB
SR3B262BD	1,569.00	12-16	MB
SR3MBU01BD	635.00	12-16	MB
SR3PACK2BD	2,034.00	12-16	MB
SR3PACK2FU	2,035.00	12-16	MB
SR3PACKBD	1,369.00	12-16	MB
SR3PACKFU	1,370.00	12-16	MB
SR3XT101BD	431.00	12-16	MB
SR3XT101FU	430.00	12-16	MB
SR3XT141B	603.00	12-16	MB
SR3XT141BD	587.00	12-16	MB
SR3XT141FU	721.00	12-16	MB
SR3XT61BD	337.00	12-16	MB
SR3XT61FU	337.00	12-16	MB

T

TRV00121	3,034.00	15-18, 15-25	HC
TRV00128	183.00	15-18, 15-25	HC
TRV00830	1,564.00	15-18, 15-25	HC
TRV00880	409.00	15-18, 15-25	HC

V

V0	210.00	11-43	GA
V01	200.00	11-43	GA
V02	200.00	11-43	GA
V1	234.00	11-43	GA
V2	267.00	11-43	GA
V3	359.00	11-43	GA
V4	P.O.R.	11-43	GA
V5	740.00	11-43	GA
V6	1,190.00	11-43	GA
VBD0	271.00	11-42	GA
VBD01	271.00	11-42	GA
VBD02	271.00	11-42	GA
VBD1	293.00	11-42	GA
VBD2	293.00	11-42	GA

Reference	Price (RM)	Page	MPG
VBDN12	195.00	11-42	GA
VBDN20	209.00	11-42	GA
VBF0	271.00	11-42	GA
VBF01	271.00	11-42	GA
VBF02	P.O.R.	11-42	GA
VBF1	293.00	11-42	GA
VBF2	293.00	11-42	GA
VBF3	419.00	11-42	GA
VBF4	453.00	11-42	GA
VBF5	1,053.00	11-42	GA
VBF6	1,333.00	11-42	GA
VCCD0	278.00	11-42	GA
VCCD01	P.O.R.	11-42	GA
VCCD02	278.00	11-42	GA
VCCD1	327.00	11-42	GA
VCCD2	327.00	11-42	GA
VCCDN12	213.00	11-42	GA
VCCDN20	230.00	11-42	GA
VCCF0	275.00	11-42	GA
VCCF01	275.00	11-42	GA
VCCF02	275.00	11-42	GA
VCCF1	330.00	11-42	GA
VCCF2	330.00	11-42	GA
VCCF3	472.00	11-42	GA
VCCF4	508.00	11-42	GA
VCCF5	1,165.00	11-42	GA
VCCF6	1,482.00	11-42	GA
VCD0	269.00	11-42	GA
VCD01	269.00	11-42	GA
VCD02	269.00	11-42	GA
VCD1	293.00	11-42	GA
VCD2	293.00	11-42	GA
VCDN12	195.00	11-42	GA
VCDN20	211.00	11-42	GA
VCF0	271.00	11-42	GA
VCF01	271.00	11-42	GA
VCF02	271.00	11-42	GA
VCF1	293.00	11-42	GA
VCF2	293.00	11-42	GA
VCF3	419.00	11-42	GA
VCF4	452.00	11-42	GA
VCF5	1,052.00	11-42	GA
VCF6	1,333.00	11-42	GA
VN12	P.O.R.	11-43	GA
VN20	P.O.R.	11-43	GA
VZ0	110.00	11-43	GA
VZ01	P.O.R.	11-43	GA
VZ02	P.O.R.	11-43	GA
VZ1	116.00	11-43	GA
VZ11	123.00	11-43	GA
VZ12	169.00	11-43	GA
VZ13	P.O.R.	11-43	GA
VZ14	121.00	11-43	GA
VZ15	147.00	11-43	GA
VZ16	226.00	11-43	GA
VZ2	123.00	11-43	GA
VZ20	125.00	11-43	GA
VZ3	154.00	11-43	GA
VZ4	167.00	11-43	GA
VZ7	124.00	11-43	GA
VZN05	P.O.R.	11-43	GA
VZN06	92.00	11-43	GA
VZN11	P.O.R.	11-43	GA
VZN12	97.00	11-43	GA
VZN14	P.O.R.	11-43	GA
VZN20	108.00	11-43	GA

X

XACA009	44.00	13-24	GB
XACA02	309.00	13-22	GB
XACA03	296.00	13-22	GB
XACA04	328.00	13-22	GB
XACA05	354.00	13-22	GB
XACA06	354.00	13-22	GB
XACA08	369.00	13-22	GB
XACA12	510.00	13-22	GB
XACA201	451.00	13-25	GB
XACA2014	598.00	13-25	GB
XACA205	504.00	13-25	GB
XACA2054	675.00	13-25	GB
XACA211	487.00	13-25	GB
XACA2114	610.00	13-25	GB
XACA215	493.00	13-25	GB
XACA2154	508.00	13-25	GB
XACA271	522.00	13-26	GB
XACA2714	638.00	13-26	GB
XACA27141	950.00	13-26	GB
XACA281	487.00	13-26	GB
XACA2814	667.00	13-26	GB
XACA28141	1,034.00	13-26	GB
XACA471	706.00	13-27	GB
XACA4714	774.00	13-27	GB
XACA47141	809.00	13-27	GB
XACA481	565.00	13-27	GB
XACA4814	830.00	13-27	GB
XACA48141	830.00	13-27	GB
XACA671	941.00	13-27	GB
XACA6714	1,096.00	13-27	GB
XACA681	728.00	13-27	GB
XACA6814	1,164.00	13-27	GB
XACA68141	1,274.00	13-27	GB
XACA871	1,122.00	13-27	GB
XACA881	931.00	13-27	GB
XACA9411	30.00	13-23	GB
XACA9412	30.00	13-23	GB
XACA9413	30.00	13-23	GB
XACA9414	30.00	13-23	GB
XACA9415	30.00	13-23	GB
XACA9416	30.00	13-23	GB
XACA960	113.00	13-24	GB
XACA971	54.00	13-24	GB
XACA982	61.00	13-24	GB
XACA983	61.00	13-24	GB
XACB961	58.00	13-24	GB
XACS101	103.00	13-22	GB
XACS102	100.00	13-22	GB
XACS103	110.00	13-22	GB
XACS104	111.00	13-22	GB
XACS105	106.00	13-22	GB
XALD01	67.00	13-16	GB
XALD02	83.00	13-16	GB
XALD03	104.00	13-16	GB
XALD04	139.00	13-16	GB
XALD05	188.00	13-16	GB
XALD101H29	161.00	13-14	GB
XALD102	121.00	13-14	GB
XALD102E	194.00	13-14	GB
XALD103	165.00	13-14	GB
XALD134	160.00	13-15	GB
XALD164	155.00	13-14	GB
XALD211H29	233.00	13-15	GB
XALD213	188.00	13-15	GB

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Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG
XALD213E	313.00	13-15	GB	XB4BK135B5	176.00	13-3	GB	XB5AA3311	56.00	13-5	GB
XALD214	269.00	13-15	GB	XB4BK135M5	209.00	13-3	GB	XB5AA3341	56.00	13-5	GB
XALD215	254.00	13-15	GB	XB4BL42	68.00	13-1	GB	XB5AA3351	56.00	13-5	GB
XALD222	256.00	13-15	GB	XB4BL73415	211.00	13-2	GB	XB5AA42	52.00	13-5	GB
XALD222E	268.00	13-15	GB	XB4BP21	77.00	13-1	GB	XB5AA4322	56.00	13-5	GB
XALD324	286.00	13-15	GB	XB4BP31	77.00	13-1	GB	XB5AA51	52.00	13-5	GB
XALD325	361.00	13-15	GB	XB4BP42	77.00	13-1	GB	XB5AA61	52.00	13-5	GB
XALD328	394.00	13-15	GB	XB4BP51	77.00	13-1	GB	XB5AC21	81.00	13-6	GB
XALD339	275.00	13-15	GB	XB4BP61	77.00	13-1	GB	XB5AD21	76.00	13-7	GB
XALD363B	328.00	13-15	GB	XB4BS8442	157.00	13-2	GB	XB5AD25	96.00	13-7	GB
XALD363G	375.00	13-15	GB	XB4BS9442	213.00	13-2	GB	XB5AD33	94.00	13-7	GB
XALD363M	470.00	13-15	GB	XB4BT842	151.00	13-2	GB	XB5AD41	79.00	13-7	GB
XALK01	106.00	13-16	GB	XB4BV41	161.00	13-4	GB	XB5AD53	94.00	13-7	GB
XALK02	134.00	13-16	GB	XB4BV43	169.00	13-4	GB	XB5AG03	194.00	13-7	GB
XALK03	139.00	13-16	GB	XB4BV44	161.00	13-4	GB	XB5AG21	175.00	13-7	GB
XALK04	158.00	13-16	GB	XB4BV45	169.00	13-4	GB	XB5AG33	194.00	13-7	GB
XALK05	185.00	13-16	GB	XB4BV61	65.00	13-4	GB	XB5AG41	175.00	13-7	GB
XALK178	215.00	13-14	GB	XB4BV63	65.00	13-4	GB	XB5AG61	175.00	13-7	GB
XALK178E	246.00	13-14	GB	XB4BV64	65.00	13-4	GB	XB5AJ21	55.00	13-7	GB
XALK178F	231.00	13-14	GB	XB4BV65	65.00	13-4	GB	XB5AJ33	70.00	13-7	GB
XALK178G	270.00	13-14	GB	XB4BVb1	74.00	13-4	GB	XB5AJ53	72.00	13-7	GB
XALK188	347.00	13-14	GB	XB4BVb3	74.00	13-4	GB	XB5AK123B5	145.00	13-7	GB
XALK188E	380.00	13-14	GB	XB4BVb4	74.00	13-4	GB	XB5AK123M5	169.00	13-7	GB
XALK188F	364.00	13-14	GB	XB4BVb5	74.00	13-4	GB	XB5AK124B5	145.00	13-7	GB
XALK188G	397.00	13-14	GB	XB4BVb6	74.00	13-4	GB	XB5AK124M5	169.00	13-7	GB
XALK198	258.00	13-14	GB	XB4BVg1	82.00	13-4	GB	XB5AK125B5	140.00	13-7	GB
XB4BA11	63.00	13-1	GB	XB4BVg3	82.00	13-4	GB	XB5AK125M5	169.00	13-7	GB
XB4BA21	63.00	13-1	GB	XB4BVg4	82.00	13-4	GB	XB5AL42	54.00	13-5	GB
XB4BA31	63.00	13-1	GB	XB4BVg5	82.00	13-4	GB	XB5AL73415	193.00	13-6	GB
XB4BA3311	69.00	13-1	GB	XB4BVg6	87.00	13-4	GB	XB5AP21	63.00	13-5	GB
XB4BA3341	69.00	13-1	GB	XB4BVM1	93.00	13-4	GB	XB5AP31	65.00	13-5	GB
XB4BA3351	69.00	13-1	GB	XB4BVM3	93.00	13-4	GB	XB5AP42	65.00	13-5	GB
XB4BA42	63.00	13-1	GB	XB4BVM4	93.00	13-4	GB	XB5AP51	65.00	13-5	GB
XB4BA4322	69.00	13-1	GB	XB4BVM5	93.00	13-4	GB	XB5AS8442	129.00	13-6	GB
XB4BA51	63.00	13-1	GB	XB4BVM6	98.00	13-4	GB	XB5AS9442	147.00	13-6	GB
XB4BA61	63.00	13-1	GB	XB4BW3135	239.00	13-1	GB	XB5AT842	119.00	13-6	GB
XB4BC21	100.00	13-2	GB	XB4BW3165	140.00	13-1	GB	XB5AV41	161.00	13-8	GB
XB4BD21	90.00	13-3	GB	XB4BW31B5	167.00	13-1	GB	XB5AV43	161.00	13-8	GB
XB4BD25	110.00	13-3	GB	XB4BW31G5	180.00	13-1	GB	XB5AV44	161.00	13-8	GB
XB4BD33	110.00	13-3	GB	XB4BW31M5	193.00	13-1	GB	XB5AV45	161.00	13-8	GB
XB4BD41	95.00	13-3	GB	XB4BW3335	237.00	13-1	GB	XB5AV61	52.00	13-8	GB
XB4BD53	115.00	13-3	GB	XB4BW3345	237.00	13-1	GB	XB5AV63	52.00	13-8	GB
XB4BD912R10K	493.00	13-4	GB	XB4BW3365	140.00	13-1	GB	XB5AV64	52.00	13-8	GB
XB4BD912R47K	493.00	13-4	GB	XB4BW33B5	167.00	13-1	GB	XB5AV65	52.00	13-8	GB
XB4BD912R4K7	493.00	13-4	GB	XB4BW33G5	180.00	13-1	GB	XB5AVB1	58.00	13-8	GB
XB4BG03	241.00	13-3	GB	XB4BW33M5	193.00	13-1	GB	XB5AVB3	58.00	13-8	GB
XB4BG21	222.00	13-3	GB	XB4BW3435	237.00	13-1	GB	XB5AVB4	58.00	13-8	GB
XB4BG33	241.00	13-3	GB	XB4BW3445	237.00	13-1	GB	XB5AVB5	58.00	13-8	GB
XB4BG41	222.00	13-3	GB	XB4BW3465	140.00	13-1	GB	XB5AVB6	58.00	13-8	GB
XB4BG61	222.00	13-3	GB	XB4BW34B5	167.00	13-1	GB	XB5AVG1	68.00	13-8	GB
XB4BJ21	90.00	13-3	GB	XB4BW34G5	180.00	13-1	GB	XB5AVG3	68.00	13-8	GB
XB4BJ33	105.00	13-3	GB	XB4BW34M5	193.00	13-1	GB	XB5AVG4	68.00	13-8	GB
XB4BJ53	110.00	13-3	GB	XB4BW3535	237.00	13-1	GB	XB5AVG5	68.00	13-8	GB
XB4BK123B5	173.00	13-3	GB	XB4BW3545	237.00	13-1	GB	XB5AVG6	68.00	13-8	GB
XB4BK123G5	197.00	13-3	GB	XB4BW3565	140.00	13-1	GB	XB5AVM1	79.00	13-8	GB
XB4BK123M5	209.00	13-3	GB	XB4BW35B5	167.00	13-1	GB	XB5AVM3	79.00	13-8	GB
XB4BK124B5	173.00	13-3	GB	XB4BW35G5	180.00	13-1	GB	XB5AVM4	79.00	13-8	GB
XB4BK124G5	197.00	13-3	GB	XB4BW35M5	193.00	13-1	GB	XB5AVM5	79.00	13-8	GB
XB4BK124M5	209.00	13-3	GB	XB4BW36G5	180.00	13-1	GB	XB5AVM6	79.00	13-8	GB
XB4BK125B5	173.00	13-3	GB	XB4BW36M5	193.00	13-1	GB	XB5AW31B5	133.00	13-5	GB
XB4BK125G5	197.00	13-3	GB	XB4BW73731B5	238.00	13-2	GB	XB5AW31G5	150.00	13-5	GB
XB4BK125M5	209.00	13-3	GB	XB4BW73731G5	250.00	13-2	GB	XB5AW31M5	155.00	13-5	GB
XB4BK133B5	177.00	13-3	GB	XB4BW73731M5	265.00	13-2	GB	XB5AW33B5	133.00	13-5	GB
XB4BK133M5	209.00	13-3	GB	XB5AA11	52.00	13-5	GB	XB5AW33G5	146.00	13-5	GB
XB4BK134B5	176.00	13-3	GB	XB5AA21	52.00	13-5	GB	XB5AW33M5	155.00	13-5	GB
XB4BK134M5	209.00	13-3	GB	XB5AA31	52.00	13-5	GB	XB5AW34B5	133.00	13-5	GB

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Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG	Reference	Price (RM)	Page	MPG
XB5AW34G5	150.00	13-5	GB	XB7EV03BP3	38.00	13-13	GB	XB7NW38B1	107.00	13-12	GB
XB5AW34M5	155.00	13-5	GB	XB7EV03GP	32.00	13-13	GB	XBFX13	24.00	13-24	GB
XB5AW35B5	133.00	13-5	GB	XB7EV03MP	40.00	13-13	GB	XCKD2102M12	815.00	14-6	GF
XB5AW35G5	150.00	13-5	GB	XB7EV03MP3	49.00	13-13	GB	XCKD2102P16	756.00	14-6	GF
XB5AW35M5	155.00	13-5	GB	XB7EV04BP	40.00	13-13	GB	XCKD2110P16	672.00	14-6	GF
XB5AW36B5	133.00	13-5	GB	XB7EV04BP3	38.00	13-13	GB	XCKD2111M12	962.00	14-6	GF
XB5AW36M5	155.00	13-5	GB	XB7EV04GP	32.00	13-13	GB	XCKD2121M12	786.00	14-6	GF
XB5AW73731B5	218.00	13-6	GB	XB7EV04MP	40.00	13-13	GB	XCKD2128M12	953.00	14-6	GF
XB5AW73731G5	235.00	13-6	GB	XB7EV04MP3	50.00	13-13	GB	XCKD2139M12	1,030.00	14-6	GF
XB5AW73731M5	244.00	13-6	GB	XB7EV05BP	30.00	13-13	GB	XCKD2145M12	771.00	14-6	GF
XB6AD221B	88.00	13-11	GB	XB7EV05BP3	38.00	13-13	GB	XCKD2145P16	717.00	14-6	GF
XB6AD225B	114.00	13-11	GB	XB7EV05GP	32.00	13-13	GB	XCKD2149M12	1,055.00	14-6	GF
XB6AD235B	114.00	13-11	GB	XB7EV05MP	40.00	13-13	GB	XCKJ10511	544.00	14-11	GF
XB6AF3B1B	132.00	13-10	GB	XB7EV05MP3	49.00	13-13	GB	XCKJ10513	608.00	14-11	GF
XB6AF3B5B	143.00	13-10	GB	XB7EV06BP	40.00	13-13	GB	XCKJ10541	534.00	14-11	GF
XB6AGC5B	207.00	13-11	GB	XB7EV06GP	32.00	13-13	GB	XCKJ10559	543.00	14-11	GF
XB6AS8349B	160.00	13-9	GB	XB7EV06MP	40.00	13-13	GB	XCKJ161	549.00	14-11	GF
XB6AS9349B	211.00	13-9	GB	XB7EV06MP3	49.00	13-13	GB	XCKJ167	435.00	14-11	GF
XB6AV1BB	82.00	13-10	GB	XB7EV07BP	40.00	13-13	GB	XCKP2102P16	285.00	14-7	GF
XB6AV3BB	82.00	13-10	GB	XB7EV07GP	32.00	13-13	GB	XCKP2110P16	230.00	14-7	GF
XB6AV4BB	82.00	13-10	GB	XB7EV07MP	40.00	13-13	GB	XCKP2118P16	289.00	14-7	GF
XB6AV5BB	82.00	13-10	GB	XB7EV08BP	30.00	13-13	GB	XCKP2121M12	312.00	14-7	GF
XB6AW1B1B	132.00	13-9	GB	XB7EV08GP	32.00	13-13	GB	XCKP2121P16	257.00	14-7	GF
XB6AW1B5B	138.00	13-9	GB	XB7EV08MP	40.00	13-13	GB	XCKP2127P16	482.00	14-7	GF
XB6AW3B1B	132.00	13-9	GB	XB7EV63P	45.00	13-13	GB	XCKP2128P16	454.00	14-7	GF
XB6AW3B5B	138.00	13-9	GB	XB7EV64P	45.00	13-13	GB	XCKP2145M12	370.00	14-7	GF
XB6AW4B2B	132.00	13-9	GB	XB7EV65P	45.00	13-13	GB	XCKP2145P16	302.00	14-7	GF
XB6AW4B5B	138.00	13-9	GB	XB7EV66P	44.00	13-13	GB	XCKP2149M12	641.00	14-7	GF
XB6CD221B	89.00	13-11	GB	XB7EV67P	44.00	13-13	GB	XCKS101	313.00	14-11	GF
XB6CD225B	114.00	13-11	GB	XB7EV73P	79.00	13-13	GB	XCKS102	306.00	14-11	GF
XB6CD235B	114.00	13-11	GB	XB7EV74P	79.00	13-13	GB	XCKS131	434.00	14-11	GF
XB6CF1B5B	141.00	13-10	GB	XB7EV75P	79.00	13-13	GB	XCKS141	358.00	14-11	GF
XB6CF3B1B	136.00	13-10	GB	XB7EV77P	79.00	13-13	GB	XCKS149	396.00	14-11	GF
XB6CF3B5B	141.00	13-10	GB	XB7NA11	49.00	13-12	GB	XCKS159	375.00	14-11	GF
XB6CF4B5B	141.00	13-10	GB	XB7NA15	53.00	13-12	GB	XCMD2102C12	492.00	14-2	GF
XB6CGC5B	207.00	13-11	GB	XB7NA21	46.00	13-12	GB	XCMD2102L1	364.00	14-1	GF
XB6CGH5B	207.00	13-11	GB	XB7NA23	53.00	13-12	GB	XCMD2102M12	485.00	14-2	GF
XB6CV3BB	83.00	13-10	GB	XB7NA25	53.00	13-12	GB	XCMD2110L1	339.00	14-1	GF
XB6CV4BB	82.00	13-10	GB	XB7NA31	46.00	13-12	GB	XCMD2111L1	370.00	14-1	GF
XB6CV5BB	82.00	13-10	GB	XB7NA33	53.00	13-12	GB	XCMD2115C12	462.00	14-2	GF
XB6CW1B1B	136.00	13-9	GB	XB7NA35	53.00	13-12	GB	XCMD2115L1	354.00	14-1	GF
XB6CW1B5B	143.00	13-9	GB	XB7NA42	46.00	13-12	GB	XCMD2116L1	386.00	14-1	GF
XB6CW3B1B	136.00	13-9	GB	XB7NA45	53.00	13-12	GB	XCMD2116M12	496.00	14-2	GF
XB6CW3B5B	143.00	13-9	GB	XB7NA65	53.00	13-12	GB	XCMD2145L1	395.00	14-1	GF
XB6CW4B2B	136.00	13-9	GB	XB7NA81	47.00	13-12	GB	XCMD2145M12	509.00	14-2	GF
XB6CW4B5B	143.00	13-9	GB	XB7NA85	53.00	13-12	GB	XCMD21F0L1	401.00	14-1	GF
XB6DD221B	88.00	13-11	GB	XB7ND21	45.00	13-12	GB	XCMD21F2L1	550.00	14-1	GF
XB6DD225B	114.00	13-11	GB	XB7ND25	52.00	13-12	GB	XCMD2502L1	406.00	14-1	GF
XB6DD235B	114.00	13-11	GB	XB7ND33	64.00	13-12	GB	XCMD2511L1	374.00	14-1	GF
XB6DF1B5B	142.00	13-10	GB	XB7NG21	76.00	13-12	GB	XCMD2516L1	394.00	14-1	GF
XB6DF3B1B	136.00	13-10	GB	XB7NG33	84.00	13-12	GB	XCMD2545L1	405.00	14-1	GF
XB6DF3B5B	142.00	13-10	GB	XB7NH21	50.00	13-12	GB	XCMN2102L1	259.00	14-4	GF
XB6DF4B2B	136.00	13-10	GB	XB7NH25	53.00	13-12	GB	XCMN2103L1	259.00	14-4	GF
XB6DF4B5B	142.00	13-10	GB	XB7NH31	48.00	13-12	GB	XCMN2106L1	260.00	14-4	GF
XB6DGC5B	207.00	13-11	GB	XB7NH35	53.00	13-12	GB	XCMN2107L1	280.00	14-4	GF
XB6DV1BB	82.00	13-10	GB	XB7NS8442	109.00	13-12	GB	XCMN2110L1	237.00	14-4	GF
XB6DV3BB	82.00	13-10	GB	XB7NS8445	117.00	13-12	GB	XCMN2115L1	293.00	14-4	GF
XB6DV4BB	82.00	13-10	GB	XB7NS9445	180.00	13-12	GB	XCMN2159L1	326.00	14-4	GF
XB6DV5BB	82.00	13-10	GB	XB7NT842	133.00	13-12	GB	XCMN21F0L1	362.00	14-4	GF
XB6DW1B1B	136.00	13-9	GB	XB7NT845	148.00	13-12	GB	XCMN21F2L1	420.00	14-4	GF
XB6DW1B5B	143.00	13-9	GB	XB7NW33B1	109.00	13-12	GB	XCMN21F3L1	431.00	14-4	GF
XB6DW3B1B	136.00	13-9	GB	XB7NW34B1	107.00	13-12	GB	XCRA11	1,371.00	14-13	GF
XB6DW3B5B	144.00	13-9	GB	XB7NW34B2	109.00	13-12	GB	XCRA15	1,609.00	14-13	GF
XB6DW4B2B	136.00	13-9	GB	XB7NW35B1	107.00	13-12	GB	XCRB15	1,608.00	14-13	GF
XB6DW4B5B	143.00	13-9	GB	XB7NW36B1	107.00	13-12	GB	XCRB51	1,303.00	14-13	GF
XB7EV03BP	40.00	13-13	GB	XB7NW37B1	107.00	13-12	GB	XCRB55	1,872.00	14-13	GF

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XCRE18	1,385.00	14-13	GF	XS4P12MA230	505.00	14-18	MB	XS612B1PBL2	333.00	14-20	MB
XCRE58	1,359.00	14-13	GF	XS4P12MA230K	496.00	14-18	MB	XS612B1PBM12	333.00	14-20	MB
XCRF17	1,386.00	14-13	GF	XS4P12MB230	530.00	14-18	MB	XS618B1MAL2	475.00	14-20	MB
XCRF57	1,416.00	14-13	GF	XS4P12MB230K	601.00	14-18	MB	XS618B1MAU20	487.00	14-20	MB
XCRZ09	1,185.00	14-13	GF	XS4P12PA340	345.00	14-18	MB	XS618B1MBL2	495.00	14-20	MB
XCRZ12	290.00	14-13	GF	XS4P12PA340D	322.00	14-18	MB	XS618B1NAL2	344.00	14-20	MB
XCRZ15	248.00	14-13	GF	XS4P12PB340D	340.00	14-18	MB	XS618B1NAM12	353.00	14-20	MB
XENG1191	139.00	13-22	GB	XS4P18MA230	525.00	14-18	MB	XS618B1NBL2	353.00	14-20	MB
XENG1491	138.00	13-22	GB	XS4P18MB230	542.00	14-18	MB	XS618B1NBM12	353.00	14-20	MB
XENG3791	202.00	13-22	GB	XS4P18NA340	308.00	14-18	MB	XS618B1PAL2	344.00	14-20	MB
XENT1192	346.00	13-22	GB	XS4P18NA340D	498.00	14-18	MB	XS618B1PAM12	344.00	14-20	MB
XMAV06L2435	879.00	14-34	MB	XS4P18NB340	356.00	14-18	MB	XS618B1PBL2	353.00	14-20	MB
XMAV12L2435	879.00	14-34	MB	XS4P18NB340D	356.00	14-18	MB	XS618B1PBM12	353.00	14-20	MB
XMAV25L2435	1,124.00	14-34	MB	XS4P18PA340	308.00	14-18	MB	XS630B1MAL2	570.00	14-20	MB
XMLK006B2C21	803.00	14-39	MB	XS4P30MA230	575.00	14-18	MB	XS630B1MAU20	561.00	14-20	MB
XMLK010B2C21	803.00	14-39	MB	XS4P30MB230	586.00	14-18	MB	XS630B1MBL2	570.00	14-20	MB
XMLK010B2D71	803.00	14-39	MB	XS4P30MB230K	583.00	14-18	MB	XS630B1NAL2	376.00	14-20	MB
XMLK016B2C21	803.00	14-39	MB	XS4P30NA340	440.00	14-18	MB	XS630B1NAM12	375.00	14-20	MB
XMLK100P2C23	804.00	14-40	MB	XS4P30NB340	437.00	14-18	MB	XS630B1PAL2	366.00	14-20	MB
XMLK150P2C23	804.00	14-40	MB	XS4P30PA340	436.00	14-18	MB	XS630B1PAM12	374.00	14-20	MB
MXMA06L2135	522.00	14-34	MB	XS4P30PA340D	426.00	14-18	MB	XS630B1PBL2	383.00	14-20	MB
MXMA06L2435	729.00	14-34	MB	XS508B1NAL2	314.00	14-19	MB	XS630B1PBM12	381.00	14-20	MB
MXMA12L2135	528.00	14-34	MB	XS508B1NAM8	314.00	14-19	MB	XS7C1A1NBM8	548.00	14-22	MB
MXMA12L2435	729.00	14-34	MB	XS508B1PAL2	310.00	14-19	MB	XS7D1A1NBM12	945.00	14-22	MB
XS108BLNAL2	246.00	14-16	MB	XS508B1PAM8	310.00	14-19	MB	XS7D1A1PAM12	734.00	14-22	MB
XS108BLNAM12	249.00	14-16	MB	XS508B1PBL2	326.00	14-19	MB	XS7E1A1DAM8	548.00	14-22	MB
XS108BLPAL2	254.00	14-16	MB	XS508B1PBM8	322.00	14-19	MB	XS7E1A1DBL01M12	720.00	14-22	MB
XS108BLPAM12	253.00	14-16	MB	XS512B1DAL2	324.00	14-19	MB	XS7E1A1DBM8	579.00	14-22	MB
XS108BLPAM8	265.00	14-16	MB	XS512B1DBL2	340.00	14-19	MB	XS7E1A1PAL2	398.00	14-22	MB
XS112BLNAL2	245.00	14-16	MB	XS512B1NAL2	285.00	14-19	MB	XS7E1A1PAM8	398.00	14-22	MB
XS112BLNAM12	245.00	14-16	MB	XS512B1NAM12	285.00	14-19	MB	XS7E1A1PBL01M12	643.00	14-22	MB
XS112BLPAL2	250.00	14-16	MB	XS512B1PAL2	288.00	14-19	MB	XS7F1A1DAL01M8	490.00	14-21	MB
XS112BLPAM12	245.00	14-16	MB	XS512B1PAM12	288.00	14-19	MB	XS7F1A1DBL2	487.00	14-21	MB
XS112BLPBM12	245.00	14-16	MB	XS518B1DAL2	329.00	14-19	MB	XS7F1A1NAL01M8	437.00	14-21	MB
XS118BLNAL2	262.00	14-17	MB	XS518B1NAL2	308.00	14-19	MB	XS7F1A1PBL2	356.00	14-21	MB
XS118BLNAM12	262.00	14-17	MB	XS518B1NAM12	308.00	14-19	MB	XS7J1A1DBL2	437.00	14-21	MB
XS118BLPAL2	259.00	14-17	MB	XS518B1NBL2	378.00	14-19	MB	XS7J1A1NBL2	418.00	14-21	MB
XS118BLPAM12	259.00	14-17	MB	XS518B1NBM12	308.00	14-19	MB	XS7J1A1PAL2	311.00	14-21	MB
XS130BLNAL2	288.00	14-17	MB	XS518B1PAL2	312.00	14-19	MB	XS7J1A1PBL01M8	366.00	14-21	MB
XS130BLPAL2	288.00	14-17	MB	XS518B1PAM12	312.00	14-19	MB	XS7J1A1PBL2	418.00	14-21	MB
XS130BLPAM12	288.00	14-17	MB	XS518B1PBM12	304.00	14-19	MB	XS8C1A1MAL01U20	996.00	14-22	MB
XS1L04NA310	547.00	14-15	MB	XS530B1DAM12	370.00	14-19	MB	XS8C1A1MAL2	933.00	14-22	MB
XS1L04NB310S	662.00	14-15	MB	XS530B1DBL2	378.00	14-19	MB	XS8C1A1NAL01M12	977.00	14-22	MB
XS1L04PA310	605.00	14-15	MB	XS530B1NAL2	461.00	14-19	MB	XS8C1A1NAL2	829.00	14-22	MB
XS1L04PA311S	709.00	14-15	MB	XS530B1NAM12	354.00	14-19	MB	XS8C1A1NAM8	829.00	14-22	MB
XS1L04PB310	701.00	14-15	MB	XS530B1NBL2	435.00	14-19	MB	XS8C1A1NBL2	725.00	14-22	MB
XS1N05NA310	622.00	14-15	MB	XS530B1NBM12	435.00	14-19	MB	XS8C1A1NBM8	876.00	14-22	MB
XS1N05PA310	624.00	14-15	MB	XS530B1PAL2	354.00	14-19	MB	XS8C1A1PAL2	688.00	14-22	MB
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XS212BLPAM12	252.00	14-16	MB	XS608B1NAM12	444.00	14-20	MB	XS8D1A1PAL2	1,182.00	14-22	MB
XS218BLNAL2	262.00	14-17	MB	XS608B1NBL2	437.00	14-20	MB	XS8D1A1PBL2	1,188.00	14-22	MB
XS218BLNAM12	259.00	14-17	MB	XS608B1NBM12	537.00	14-20	MB	XS8D1A1PBM12	1,197.00	14-22	MB
XS218BLPAL2	259.00	14-17	MB	XS608B1PAL2	357.00	14-20	MB	XS8E1A1NAM8	932.00	14-22	MB
XS218BLPAM12	262.00	14-17	MB	XS608B1PAM12	366.00	14-20	MB	XS8E1A1PAL01M12	867.00	14-22	MB
XS230BLNAL2	302.00	14-17	MB	XS608B1PBL2	365.00	14-20	MB	XSZB118	69.00	14-17, 14-20, 14-42	MB
XS230BLPAL2	302.00	14-17	MB	XS608B1PBM12	365.00	14-20	MB	XSZB130	87.00	14-17, 14-20	MB
XS230BLPAM12	367.00	14-17	MB	XS612B1MAL2	498.00	14-20	MB	XUB0AKSNL2T	303.00	14-24	MB
XS230BLPBL2	300.00	14-17	MB	XS612B1MAU20	485.00	14-20	MB	XUB0APSNL2	531.00	14-24	MB
XS4P08MA230K	734.00	14-18	MB	XS612B1MBL2	513.00	14-20	MB	XUB0APSNM12	536.00	14-24	MB
XS4P08MB230K	777.00	14-18	MB	XS612B1NAL2	334.00	14-20	MB	XUB0BPSNM12	574.00	14-24	MB
XS4P08NA340	458.00	14-18	MB	XS612B1NAM12	333.00	14-20	MB	XUB1BPANM12	414.00	14-25	MB
XS4P08PA340	385.00	14-18	MB	XS612B1NBL2	334.00	14-20	MB	XUB1BPANM12	825.00	14-25	MB
XS4P08PB340	448.00	14-18	MB	XS612B1PAL2	334.00	14-20	MB	XUB1BPANM12	415.00	14-25	MB
XS4P08PB340S	448.00	14-18	MB	XS612B1PAM12	327.00	14-20	MB	XUB2BKSNM12T	261.00	14-25	MB

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XUB2BKSWM12T	295.00	14-25	MB	XVC1B4SK	3,652.00	13-18	GB	XVUC28	202.00	13-19	GB
XUB2BPANM12R	402.00	14-25	MB	XVC4B1	545.00	13-17	GB	XVUC29	512.00	13-19	GB
XUB2BPBNM12R	406.00	14-25	MB	XVC4B15S	792.00	13-17	GB	XVUC29P	377.00	13-19	GB
XUB5BPANM12	449.00	14-25	MB	XVC4B1K	473.00	13-17	GB	XVUC43	234.00	13-19	GB
XUB9BPANM12	451.00	14-25	MB	XVC4B25S	888.00	13-17	GB	XVUC44	234.00	13-19	GB
XUB9BPAWM12	943.00	14-25	MB	XVC4B2K	533.00	13-17	GB	XVUC45	234.00	13-19	GB
XUK0AKSAL2	771.00	14-27	MB	XVC4B3	677.00	13-17	GB	XVUC46	234.00	13-19	GB
XUK0AKSAM12	776.00	14-27	MB	XVC4B35S	964.00	13-17	GB	XVUC47	234.00	13-19	GB
XUK0ARCTL2	873.00	14-27	MB	XVC4B3K	627.00	13-17	GB	XVUC48	234.00	13-19	GB
XUK1ANANL2	510.00	14-28	MB	XVC4B4	744.00	13-17	GB	XVUC9S	207.00	13-19	GB
XUK1APANM12	530.00	14-28	MB	XVC4B45S	1,072.00	13-17	GB	XVUC9SQ	232.00	13-19	GB
XUK1APBNL2	527.00	14-28	MB	XVC4B4K	725.00	13-17	GB	XVUC9V	954.00	13-19	GB
XUK2AKSNM12T	319.00	14-28	MB	XVC4B5	854.00	13-17	GB	XVUC9VP	954.00	13-19	GB
XUK2ANANL2R	531.00	14-28	MB	XVC4B55S	1,185.00	13-17	GB	XVUZ01	147.00	13-19	GB
XUK2APANM12R	466.00	14-28	MB	XVC6B15SK	758.00	13-17	GB	XVUZ01Q	164.00	13-19	GB
XUK2APBNL2R	531.00	14-28	MB	XVC6B1K	422.00	13-17	GB	XVUZ02	225.00	13-19	GB
XUK2ARCNL2R	548.00	14-28	MB	XVC6B2	695.00	13-17	GB	XVUZ02Q	284.00	13-19	GB
XUK2ARCNL2T	358.00	14-28	MB	XVC6B3	763.00	13-17	GB	XVUZ03	284.00	13-19	GB
XUK5ANANL2	727.00	14-28	MB	XVC6B35S	1,101.00	13-17	GB	XVUZ04	297.00	13-19	GB
XUK5ANANM12	727.00	14-28	MB	XVC6B35SK	965.00	13-17	GB	XVUZ05	791.00	13-19	GB
XUK5ANBNL2	727.00	14-28	MB	XVC6B3K	671.00	13-17	GB	XVUZ06	313.00	13-19	GB
XUK5APANL2	563.00	14-28	MB	XVC6B4	885.00	13-17	GB	XX512A2NAM8	2,036.00	14-42	MB
XUK5APANM12	565.00	14-28	MB	XVC6B45S	1,223.00	13-17	GB	XX518A3NAM12	1,632.00	14-42	MB
XUK5APBNL2	563.00	14-28	MB	XVC6B45SK	1,086.00	13-17	GB	XX518A3PAM12	1,617.00	14-42	MB
XUK5APBNM12	563.00	14-28	MB	XVC6B55S	1,348.00	13-17	GB	XX630A1NCM12	3,883.00	14-42	MB
XUK5ARCNL2	630.00	14-28	MB	XVCZ02	248.00	13-17	GB	XX7F1A2NAL01M12	2,206.00	14-44	MB
XUK9ANBNL2	684.00	14-28	MB	XVCZ12	419.00	13-17	GB	XX930A1A2M12	6,288.00	14-43	MB
XUK9ARCNL2	673.00	14-28	MB	XVCZ13	806.00	13-18	GB	XX930A3A1M12	7,595.00	14-43	MB
XUM0AKSAL2T	363.00	14-26	MB	XVCZ23	82.00	13-18	GB	XX930A3A2M12	7,596.00	14-43	MB
XUM0ANSAL2	624.00	14-26	MB	XVR3B03	1,232.00	13-20	GB	XXZ12	49.00	14-42	MB
XUM0APSAM8	635.00	14-26	MB	XVR3B03S	1,628.00	13-20	GB	XXZ30	96.00	14-42, 14-43	MB
XUX0AKSAM12	1,439.00	14-29	MB	XVR3B04	1,232.00	13-20	GB	XXZPB100	1,014.00	14-42, 14-44	MB
XUX0AKSAM12T	1,048.00	14-29, 14-30	MB	XVR3B04S	1,628.00	13-20	GB	XZCC12FCM40B	90.00	14-41, 14-42, 14-43, 14-44	MB
XUX0AKSAT16	1,104.00	14-29	MB	XVR3B05	1,232.00	13-20	GB	XZCC12F40B	88.00	14-42, 14-43, 14-44	MB
XUX0AKSAT16T	955.00	14-29, 14-30	MB	XVR3B05S	1,628.00	13-20	GB	XZCC12FDM40B	88.00	14-41, 14-42, 14-43, 14-44	MB
XUX0ARCTT16	1,247.00	14-29	MB	XVR3B06	1,232.00	13-20	GB	XZCC12FDP40B	87.00	14-42, 14-43, 14-44	MB
XUX0ARCTT16T	812.00	14-29, 14-30	MB	XVR3B06S	1,628.00	13-20	GB	XZCC43FCP40B	40.00	14-41	MB
XUX1ANANT16	863.00	14-30	MB	XVR3E03	1,339.00	13-20	GB	XZCC8FCM40S	225.00	14-42	MB
XUX1ANBNT16	863.00	14-30	MB	XVR3E04	1,339.00	13-20	GB	XZCC8FCM40V	194.00	14-42	MB
XUX1ARCNT16	888.00	14-30	MB	XVR3E05	1,339.00	13-20	GB	XZCC8FDM40S	225.00	14-42	MB
XUX2ANANT16R	1,146.00	14-30	MB	XVR3E06	1,339.00	13-20	GB	XZCP0166L10	249.00	14-42, 14-45	MB
XUX2APANM12R	888.00	14-30	MB	XVR3M03	1,221.00	13-20	GB	XZCP0166L2	233.00	14-42, 14-45	MB
XUX2APANT16R	1,146.00	14-30	MB	XVR3M03S	1,542.00	13-20	GB	XZCP0166L5	212.00	14-42, 14-45	MB
XUX2ARCNT16R	820.00	14-30	MB	XVR3M04	1,221.00	13-20	GB	XZCP0266L2	233.00	14-42, 14-45	MB
XUX5ANANM12	999.00	14-30	MB	XVR3M04S	1,542.00	13-20	GB	XZCP0266L5	212.00	14-42, 14-45	MB
XUX5APANM12	795.00	14-30	MB	XVR3M05	1,221.00	13-20	GB	XZCP0366L5	267.00	14-45	MB
XUX5APBNT16	999.00	14-30	MB	XVR3M05S	1,542.00	13-20	GB	XZCP0466L10	331.00	14-45	MB
XUX5ARCNT16	904.00	14-30	MB	XVR3M06	1,221.00	13-20	GB	XZCP0466L2	234.00	14-45	MB
XUX9ANANM12	981.00	14-30	MB	XVR3M06S	1,542.00	13-20	GB	XZCP0466L5	272.00	14-45	MB
XUX9ANBNT16	981.00	14-30	MB	XVS14BMW	1,824.00	13-21	GB	XZCP0566L2	194.00	14-45	MB
XUX9ARCNT16	987.00	14-30	MB	XVS14GMW	1,838.00	13-21	GB	XZCP0666L2	188.00	14-45	MB
XUZA118	66.00	14-24, 14-25, 14-42	MB	XVS14MMW	1,838.00	13-21	GB	XZCP0766L10	279.00	14-45	MB
XUZA218	97.00	14-24, 14-25	MB	XVS72BMBN	926.00	13-21	GB	XZCP0866L2	234.00	14-45	MB
XUZA51	27.00	14-27, 14-28	MB	XVS72BMBP	919.00	13-21	GB	XZCP0941L2	138.00	14-45	MB
XUZB2012	122.00	14-42	MB	XVS72BMWN	919.00	13-21	GB	XZCP0941L5	165.00	14-45	MB
XUZC50	70.00	14-24, 14-25, 14-26, 14-27, 14-28, 14-29, 14-30, 14-33	MB	XVS72BMWP	926.00	13-21	GB	XZCP1041L2	155.00	14-45	MB
XUZX2000	41.00	14-29, 14-30	MB	XVUC020	213.00	13-19	GB	XZCP1041L5	164.00	14-45	MB
XVC1B1K	1,444.00	13-18	GB	XVUC21B	186.00	13-19	GB	XZCP1141L10	234.00	14-41, 14-42, 14-43, 14-44, 14-46	MB
XVC1B1SK	1,924.00	13-18	GB	XVUC21BQ	209.00	13-19	GB	XZCP1141L2	132.00	14-41, 14-42, 14-43, 14-44, 14-46	MB
XVC1B2K	1,925.00	13-18	GB	XVUC21M	408.00	13-19	GB	XZCP1141L5	166.00	14-41, 14-42, 14-43, 14-44, 14-46	MB
XVC1B3K	2,547.00	13-18	GB	XVUC21MP	408.00	13-19	GB	XZCP1164L10	234.00	14-46	MB
XVC1B3SK	2,982.00	13-18	GB	XVUC23	183.00	13-19	GB				
XVC1B4K	3,201.00	13-18	GB	XVUC24	183.00	13-19	GB				
				XVUC25	183.00	13-19	GB				
				XVUC26	212.00	13-19	GB				
				XVUC27	212.00	13-19	GB				

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XZCP1164L5	175.00	14-46	MB	ZB4BD3	60.00	13-3	GB	ZB4BWOM35	105.00	13-1, 13-3	GB
XZCP1169L2	132.00	14-46	MB	ZB4BD4	60.00	13-3	GB	ZB4BWOM45	105.00	13-1, 13-3	GB
XZCP1169L5	162.00	14-46	MB	ZB4BD5	60.00	13-3	GB	ZB4BWOM55	105.00	13-1, 13-3	GB
XZCP1241L10	234.00	14-41, 14-42, 14-43,14-44, 14-46	MB	ZB4BG0	190.00	13-3	GB	ZB4BWOM65	105.00	13-1	GB
XZCP1241L2	132.00	14-41, 14-42, 14-43,14-44, 14-46	MB	ZB4BG2	190.00	13-3	GB	ZB4BW31	42.00	13-1	GB
XZCP1241L5	167.00	14-41, 14-42, 14-43,14-44, 14-46	MB	ZB4BG3	190.00	13-3	GB	ZB4BW313	90.00	13-1	GB
XZCP1264L5	171.00	14-46	MB	ZB4BG4	190.00	13-3	GB	ZB4BW33	39.00	13-1	GB
XZCP1340L10	226.00	14-46	MB	ZB4BG6	190.00	13-3	GB	ZB4BW333	90.00	13-1	GB
XZCP1340L2	135.00	14-46	MB	ZB4BJ2	48.00	13-3	GB	ZB4BW34	39.00	13-1	GB
XZCP1440L2	160.00	14-46	MB	ZB4BJ3	48.00	13-3	GB	ZB4BW343	90.00	13-1	GB
XZCP1541L2	138.00	14-46	MB	ZB4BJ5	48.00	13-3	GB	ZB4BW35	39.00	13-1	GB
XZCP1662L5	493.00	14-47	MB	ZB4BK1233	90.00	13-3	GB	ZB4BW353	90.00	13-1	GB
XZCP1670L2	367.00	14-47	MB	ZB4BK1243	90.00	13-3	GB	ZB4BW363	90.00	13-1	GB
XZCP1670L5	380.00	14-47	MB	ZB4BK1253	90.00	13-3	GB	ZB4BZ101	31.00	13-1, 13-2, 13-3	GB
XZCP1965L2	334.00	14-47	MB	ZB4BK1333	96.00	13-3	GB	ZB4BZ102	31.00	13-1, 13-2	GB
Z				ZB4BK1343	96.00	13-3	GB	ZB4BZ103	49.00	13-3	GB
ZA2BB2	821.00	13-23	GB	ZB4BK1343	96.00	13-3	GB	ZB4BZ105	49.00	13-3	GB
ZA2BD2	43.00	13-23	GB	ZB4BL4	40.00	13-1	GB	ZB5AA1	27.00	13-5	GB
ZA2BD3	43.00	13-23	GB	ZB4BL432	77.00	13-1	GB	ZB5AA2	27.00	13-5	GB
ZA2BG4	225.00	13-23	GB	ZB4BP2	45.00	13-1	GB	ZB5AA3	27.00	13-5	GB
ZA2BS834	187.00	13-23	GB	ZB4BP3	45.00	13-1	GB	ZB5AA331	29.00	13-16, 13-5	GB
ZA2BS844	187.00	13-23	GB	ZB4BP4	45.00	13-1	GB	ZB5AA334	28.00	13-5	GB
ZA2BS934	390.00	13-23	GB	ZB4BP5	45.00	13-1	GB	ZB5AA335	28.00	13-5	GB
ZA2BS944	323.00	13-23	GB	ZB4BP6	45.00	13-1	GB	ZB5AA4	27.00	13-5	GB
ZA2BV01	37.00	13-23	GB	ZB4BS844	127.00	13-2	GB	ZB5AA432	28.00	13-16, 13-5	GB
ZA2BV03	37.00	13-23	GB	ZB4BS944	182.00	13-2	GB	ZB5AA5	27.00	13-5	GB
ZA2BV04	37.00	13-23	GB	ZB4BT84	102.00	13-2	GB	ZB5AA6	27.00	13-5	GB
ZA2BV05	37.00	13-23	GB	ZB4BV01	24.00	13-4	GB	ZB5AC2	57.00	13-6	GB
ZA2BV06	37.00	13-23	GB	ZB4BV013	32.00	13-4	GB	ZB5AC4	56.00	13-16	GB
ZALVB1	68.00	13-16	GB	ZB4BV03	24.00	13-4	GB	ZB5AD2	52.00	13-16, 13-7	GB
ZALVB3	68.00	13-16	GB	ZB4BV033	32.00	13-4	GB	ZB5AD3	52.00	13-16, 13-7	GB
ZALVB4	68.00	13-16	GB	ZB4BV04	24.00	13-4	GB	ZB5AD4	52.00	13-7	GB
ZALVB5	68.00	13-16	GB	ZB4BV043	32.00	13-4	GB	ZB5AD5	52.00	13-7	GB
ZALVB6	67.00	13-16	GB	ZB4BV05	24.00	13-4	GB	ZB5AG0	155.00	13-7	GB
ZALVG1	79.00	13-16	GB	ZB4BV053	32.00	13-4	GB	ZB5AG2	152.00	13-7	GB
ZALVG3	79.00	13-16	GB	ZB4BV063	32.00	13-4	GB	ZB5AG3	155.00	13-7	GB
ZALVG4	79.00	13-16	GB	ZB4BV3	144.00	13-4	GB	ZB5AG4	152.00	13-7	GB
ZALVG5	79.00	13-16	GB	ZB4BV4	144.00	13-4	GB	ZB5AG6	159.00	13-7	GB
ZALVM1	118.00	13-16	GB	ZB4BV6	40.00	13-4	GB	ZB5AJ2	30.00	13-7	GB
ZALVM3	117.00	13-16	GB	ZB4BVB1	45.00	13-4	GB	ZB5AJ3	30.00	13-7	GB
ZALVM4	117.00	13-16	GB	ZB4BVB3	45.00	13-4	GB	ZB5AJ5	30.00	13-7	GB
ZALVM5	117.00	13-16	GB	ZB4BVB4	45.00	13-4	GB	ZB5AK1233	71.00	13-7	GB
ZALVM6	117.00	13-16	GB	ZB4BVB5	45.00	13-4	GB	ZB5AK1243	71.00	13-7	GB
ZB2BE101	26.00	13-22	GB	ZB4BVB6	44.00	13-4	GB	ZB5AK1253	74.00	13-7	GB
ZB2BE102	26.00	13-22	GB	ZB4BVG1	56.00	13-4	GB	ZB5AL4	28.00	13-5	GB
ZB2BV006	73.00	13-22	GB	ZB4BVG3	56.00	13-4	GB	ZB5AL432	30.00	13-5	GB
ZB2BV007	127.00	13-22	GB	ZB4BVG4	57.00	13-4	GB	ZB5AP2	39.00	13-5	GB
ZB2SZ3	16.00	13-24	GB	ZB4BVG5	57.00	13-4	GB	ZB5AP3	39.00	13-5	GB
ZB4BA1	32.00	13-1	GB	ZB4BVG6	57.00	13-4	GB	ZB5AP4	39.00	13-5	GB
ZB4BA2	32.00	13-1	GB	ZB4BVM1	65.00	13-4	GB	ZB5AP5	39.00	13-5	GB
ZB4BA3	32.00	13-1	GB	ZB4BVM3	65.00	13-4	GB	ZB5AS844	104.00	13-16, 13-6	GB
ZB4BA331	40.00	13-1	GB	ZB4BVM4	65.00	13-4	GB	ZB5AS944	121.00	13-16, 13-6	GB
ZB4BA334	40.00	13-1	GB	ZB4BVM5	65.00	13-4	GB	ZB5AT84	89.00	13-6	GB
ZB4BA335	40.00	13-1	GB	ZB4BVM6	65.00	13-4	GB	ZB5AV01	22.00	13-8	GB
ZB4BA4	32.00	13-1	GB	ZB4BW035	182.00	13-1	GB	ZB5AV013	22.00	13-8	GB
ZB4BA432	40.00	13-1	GB	ZB4BW045	182.00	13-1	GB	ZB5AV03	22.00	13-8	GB
ZB4BA5	32.00	13-1	GB	ZB4BW065	105.00	13-1	GB	ZB5AV033	22.00	13-16, 13-8	GB
ZB4BA6	32.00	13-1	GB	ZB4BWOB15	81.00	13-1	GB	ZB5AV04	22.00	13-8	GB
ZB4BC2	69.00	13-2	GB	ZB4BWOB35	81.00	13-1, 13-3	GB	ZB5AV043	22.00	13-16, 13-8	GB
ZB4BD2	60.00	13-3	GB	ZB4BWOB45	81.00	13-1, 13-3	GB	ZB5AV05	22.00	13-8	GB
				ZB4BWOB55	81.00	13-1, 13-3	GB	ZB5AV053	22.00	13-8	GB
				ZB4BWOG15	97.00	13-1	GB	ZB5AV063	22.00	13-8	GB
				ZB4BWOG35	97.00	13-1, 13-3	GB	ZB5AV3	127.00	13-8	GB
				ZB4BWOG45	97.00	13-1, 13-3	GB	ZB5AV4	142.00	13-8	GB
				ZB4BWOG55	97.00	13-1, 13-3	GB	ZB5AV6	33.00	13-8	GB
				ZB4BWOG65	97.00	13-1	GB	ZB5AVB1	38.00	13-8	GB
				ZB4BWOM15	105.00	13-1	GB	ZB5AVB3	38.00	13-8	GB

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ZB5AVB4	38.00	13-8	GB
ZB5AVB5	38.00	13-8	GB
ZB5AVB6	38.00	13-8	GB
ZB5AVG1	50.00	13-8	GB
ZB5AVG3	49.00	13-8	GB
ZB5AVG4	49.00	13-8	GB
ZB5AVG5	50.00	13-8	GB
ZB5AVG6	50.00	13-8	GB
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ZB5AVM3	59.00	13-8	GB
ZB5AVM4	59.00	13-8	GB
ZB5AVM5	59.00	13-8	GB
ZB5AVM6	59.00	13-8	GB
ZB5AW035	163.00	13-5	GB
ZB5AW045	163.00	13-5	GB
ZB5AW065	80.00	13-5	GB
ZB5AW0B15	74.00	13-5	GB
ZB5AW0B35	74.00	13-5, 13-7	GB
ZB5AW0B45	74.00	13-5, 13-7	GB
ZB5AW0B55	74.00	13-5, 13-7	GB
ZB5AW0B65	74.00	13-5	GB
ZB5AW0G15	90.00	13-5	GB
ZB5AW0G35	90.00	13-5	GB
ZB5AW0G45	90.00	13-5	GB
ZB5AW0G55	90.00	13-5	GB
ZB5AW0M15	101.00	13-5	GB
ZB5AW0M35	98.00	13-5, 13-7	GB
ZB5AW0M45	101.00	13-5, 13-7	GB
ZB5AW0M55	101.00	13-5, 13-7	GB
ZB5AW0M65	99.00	13-5	GB
ZB5AW31	30.00	13-5	GB
ZB5AW313	59.00	13-5	GB
ZB5AW33	30.00	13-5	GB
ZB5AW333	59.00	13-5	GB
ZB5AW34	30.00	13-5	GB
ZB5AW343	59.00	13-5	GB
ZB5AW35	30.00	13-5	GB
ZB5AW353	59.00	13-5	GB
ZB5AW363	59.00	13-5	GB
ZB5AZ101	27.00	13-5, 13-6, 13-7	GB
ZB5AZ102	27.00	13-5, 13-6	GB
ZB5AZ103	45.00	13-7	GB
ZB5AZ105	45.00	13-7	GB
ZB5CV003	94.00	13-16	GB
ZB5CV013	62.00	13-16	GB
ZB5CV033	62.00	13-16	GB
ZB5CV043	62.00	13-16	GB
ZB5CV053	62.00	13-16	GB
ZB5CW313	83.00	13-16	GB
ZB5CW333	83.00	13-16	GB
ZB5CW343	83.00	13-16	GB
ZB5CW363	83.00	13-16	GB
ZB6AD22	74.00	13-11	GB
ZB6AD23	74.00	13-11	GB
ZB6AF3	56.00	13-10	GB
ZB6AF4	56.00	13-10	GB
ZB6AGC	171.00	13-11	GB
ZB6AS834	107.00	13-9	GB
ZB6AS934	166.00	13-9	GB
ZB6AV1	56.00	13-10	GB
ZB6AV3	56.00	13-10	GB
ZB6AV4	56.00	13-10	GB
ZB6AV5	56.00	13-10	GB
ZB6AW1	55.00	13-9	GB
ZB6AW3	55.00	13-9	GB
ZB6AW4	55.00	13-9	GB
ZB6CD22	76.00	13-11	GB

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ZB6CD23	76.00	13-11	GB
ZB6CF1	101.00	13-10	GB
ZB6CF3	102.00	13-10	GB
ZB6CF4	99.00	13-10	GB
ZB6CGC	171.00	13-11	GB
ZB6CGH	174.00	13-11	GB
ZB6CV3	54.00	13-10	GB
ZB6CV4	56.00	13-10	GB
ZB6CV5	54.00	13-10	GB
ZB6CW1	57.00	13-9	GB
ZB6CW3	58.00	13-9	GB
ZB6CW4	58.00	13-9	GB
ZB6DD22	63.00	13-11	GB
ZB6DD23	64.00	13-11	GB
ZB6DF1	59.00	13-10	GB
ZB6DF3	59.00	13-10	GB
ZB6DF4	59.00	13-10	GB
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ZB6DV3	56.00	13-10	GB
ZB6DV4	56.00	13-10	GB
ZB6DV5	56.00	13-10	GB
ZB6DW1	58.00	13-9	GB
ZB6DW3	58.00	13-9	GB
ZB6DW4	58.00	13-9	GB
ZB6EB1B	109.00	13-10	GB
ZB6EB3B	109.00	13-10	GB
ZB6EB4B	109.00	13-10	GB
ZB6EB5B	107.00	13-10	GB
ZB6Z1B	63.00	13-11	GB
ZB6Z4B	66.00	13-9	GB
ZB6Z5B	68.00	13-11, 13-9	GB
ZB6ZB11B	101.00	13-9	GB
ZB6ZB15B	114.00	13-10, 13-9	GB
ZB6ZB31B	99.00	13-10, 13-9	GB
ZB6ZB35B	114.00	13-10, 13-9	GB
ZB6ZB42B	99.00	13-10, 13-9	GB
ZB6ZB45B	109.00	13-10, 13-9	GB
ZBE101	23.00	13-4, 13-8	GB
ZBE102	23.00	13-4, 13-8	GB
ZBE203	96.00	13-4, 13-8	GB
ZBE204	99.00	13-4, 13-8	GB
ZBE205	99.00	13-4, 13-8	GB
ZBZ1600	231.00	13-8	GB
ZBZ1602	141.00	13-8	GB
ZBZ1604	141.00	13-8	GB
ZBZ1605	141.00	13-8	GB
ZBZ1606	145.00	13-8	GB
ZCKD01	121.00	14-12	GF
ZCKD02	144.00	14-12	GF
ZCKD06	138.00	14-12	GF
ZCKD08	147.00	14-12	GF
ZCKD31	196.00	14-12	GF
ZCKD41	212.00	14-12	GF
ZCKD59	199.00	14-12	GF
ZCKE05	230.00	14-12	GF
ZCKE06	395.00	14-12	GF
ZCKE08	415.00	14-12	GF
ZCKE09	583.00	14-12	GF
ZCKE21	407.00	14-12	GF
ZCKE23	430.00	14-12	GF
ZCKE61	253.00	14-12	GF
ZCKE62	356.00	14-12	GF
ZCKE63	563.00	14-12	GF
ZCKE67	321.00	14-12	GF
ZCKJ1	370.00	14-12	GF
ZCKJ1H29	389.00	14-12	GF

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ZCKJ2	547.00	14-12	GF
ZCKJ2H29	567.00	14-12	GF
ZCKS1	503.00	14-12	GF
ZCKS1H29	503.00	14-12	GF
ZCKY11	59.00	14-12	GF
ZCKY13	93.00	14-12	GF
ZCKY41	51.00	14-12	GF
ZCKY43	67.00	14-12	GF
ZCKY59	55.00	14-12	GF
ZCKY71	125.00	14-12	GF
ZENL1111	30.00	13-16	GB
ZENL1121	30.00	13-16	GB

So easy, so simple

With just three sizes of circuit breakers, Schneider Electric's EasyPact™ EZC system is the simple, universal solution to fit all low-voltage protection needs.

> The fixed version is particularly adapted to the OEM and Building markets, offering optimum performance at a competitive price.

> The plug-in version offers an additional function dedicated to the Marine market.



Buildings



Marine



OEM



EasyPact™ EZC range complies with worldwide standards :

- IEC 60947-2
- EN 60947-2
- JISC8201-2-1/C8201-2-2 (annex 1 and 2)
- GB 14048.2
- NEMA-AB1
- UL508 ⁽¹⁾
- CSA22-2 ⁽¹⁾
- IACS for Merchant Marine

(International Association of Classification Societies:
ABS, BV, CCS, DNV, GL, KRS, LR, NK, RINA)**

⁽¹⁾ Only for the 100A and 250A models

With international certifications and approvals by independent laboratories:

ASEFA, KEMA, TILVA, TÜV, UL

And compliance to RoHS Directive

(Restriction of Hazardous Substances)

Easy choice for total Simplicity

Electrical Characteristic

EZC100/EZC250 F/N/H

Moulded Case Circuit Breakers (MCCB)

Standards : IEC 60947-2, JIS C8201-2-1

EasyPact EZC100F 16A to 100A (10kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P	3P
AC 50/60Hz	220/230/240	-	-	25	50%
	380	-	-	10	50%
	400/415	-	-	10	50%
DC	125 (1P)	-	-	5	50%
	250 (2P in series)	-	-	5	50%



EasyPact EZC100N 16A to 100A (15kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

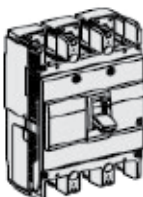
	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P - 4P	1P-3P-4P
AC 50/60Hz	220/230/240	18	-	25	50%
	380	2.5	-	18	50%
	400/415	2.5	-	15	50%
DC	125 (1P)	5	-	5	50%
	250 (2P in series)	-	-	5	50%



EasyPact EZC100H 16A to 100A (30kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

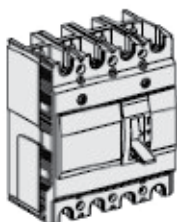
	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P - 4P	1P-3P-4P
AC 50/60Hz	220/230/240	25	50	30	50%
	380/400	5	30	30	50%
	415	5	30	30	25%
DC	125 (1P)	10	10	10	50%
	250 (2P in series)	-	10	10	50%



EasyPact EZC250F 125A to 250A (18kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	25	50%
	380/400	-	-	18	50%
	415	-	-	18	50%
DC	125 (1P)	-	-	5	50%
	250 (2P in series)	-	-	5	50%



EasyPact EZC250N 63A to 250A (25kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	50	50%
	380/400	-	-	25	50%
	415	-	-	25	50%
DC	125 (1P)	-	-	20	50%
	250 (2P in series)	-	-	20	50%

EasyPact EZC250H 63A to 250A (36kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	85	85	50%
	380/400	-	36	36	50%
	415	-	36	36	50%
DC	125 (1P)	-	30	30	50%
	250 (2P in series)	-	30	30	50%

Fixed Thermal Magnetic Trip Unit

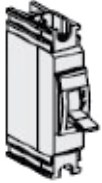
- 1P 1t : Single pole with one pole protection
- 2P 2t : Two poles with two poles protection
- 3P 3t : Three poles with three poles protection
- 4P 3t : Four poles with three poles protection

Electrical Characteristic

EZC400/EZC630 N/H

Moulded Case Circuit Breakers (MCCB)

Standards : IEC 60947-2, JIS C8201-2-1



EasyPact EZC400N 320A to 400A (36kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

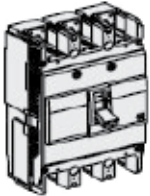
	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	40	50%
	380/400	-	-	36	50%
	415	-	-	36	50%



EasyPact EZC630N 500A to 630A (36kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

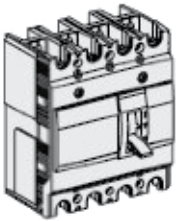
	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	40	50%
	380/400	-	-	36	50%
	415	-	-	36	50%



EasyPact EZC400H 320A to 400A (50kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	70	50%
	380/400	-	-	50	50%
	415	-	-	50	50%



EasyPact EZC630H 500A to 630A (50kA @ 415 VAC)

Breaking capacities kA(rms) as per IEC 60947-2, JIS C8201-2-1

	Ue (V)	Icu (kA)			Ics (% Icu)
		1P	2P	3P-4P	1P-3P-4P
AC 50/60Hz	220/230/240	-	-	70	50%
	380/400	-	-	50	50%
	415	-	-	50	50%

Fixed Thermal Magnetic Trip Unit

- 1P 1t : Single pole with one pole protection
- 2P 2t : Two poles with two poles protection
- 3P 3t : Three poles with three poles protection
- 4P 3t : Four poles with three poles protection

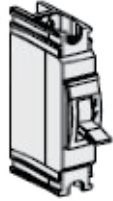
EasyPact

EasyPact EZC MCCB

Fixed MCCB

Pole(s) : 1P/2P

Icu : 18kA - 85kA (Ics = 50% Icu)

18kA at 220/240 VAC

Rating	Ics (%of Icu)	Model	1P 1t	Price (RM)	
Fixed thermal magnetic trip unit					
16 A	50%	EZC100N	EZC100N1016	310.00	-
20 A	50%	EZC100N	EZC100N1020	310.00	-
25 A	50%	EZC100N	EZC100N1025	310.00	-
32 A	50%	EZC100N	EZC100N1032	310.00	-
40 A	50%	EZC100N	EZC100N1040	310.00	-
50 A	50%	EZC100N	EZC100N1050	310.00	-
63 A	50%	EZC100N	EZC100N1063	310.00	-
80 A	50%	EZC100N	EZC100N1080	310.00	-
100 A	50%	EZC100N	EZC100N1100	310.00	-

1P 25kA - 2P 50 kA at 220/240 VAC

Rating	Ics (%of Icu)	Model	1P 1t	Price (RM)	2P 2t	Price (RM)
Fixed thermal magnetic trip unit						
16 A	50%	EZC100H	EZC100H1016	298.00	EZC100H2016	379.00
20 A	50%	EZC100H	EZC100H1020	298.00	EZC100H2020	379.00
25 A	50%	EZC100H	EZC100H1025	298.00	EZC100H2025	379.00
32 A	50%	EZC100H	EZC100H1032	298.00	EZC100H2032	379.00
40 A	50%	EZC100H	EZC100H1040	298.00	EZC100H2040	379.00
50 A	50%	EZC100H	EZC100H1050	298.00	EZC100H2050	379.00
63 A	50%	EZC100H	EZC100H1063	298.00	EZC100H2063	379.00
80 A	50%	EZC100H	EZC100H1080	298.00	EZC100H2080	379.00
100 A	50%	EZC100H	EZC100H1100	298.00	EZC100H2100	379.00

2P 85kA at 220/240 VAC

Rating	Ics (%of Icu)	Model	2P 2t		Price (RM)
Fixed thermal magnetic trip unit					
100A	50%	EZC250H	-	EZC250H2100	977.00
125A	50%	EZC250H	-	EZC250H2125	977.00
160A	50%	EZC250H	-	EZC250H2160	977.00
200A	50%	EZC250H	-	EZC250H2200	1,157.00
250A	50%	EZC250H	-	EZC250H2250	1,157.00

1P 1t : Single pole with one pole protection

2P 2t : Two poles with two poles protection

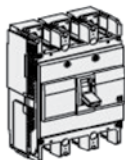
EasyPact EZC MCCB

Fixed MCCB

Pole(s) : 3P/4P

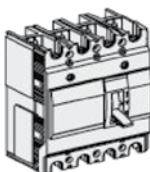
Icu : 10kA - 50kA (Ics = 50% Icu)

3P 10kA at 400/415 VAC



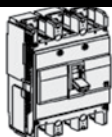
Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	
Fixed thermal magnetic trip unit					
16A	50%	EZC100F	EZC100F3016	293.00	-
20A	50%	EZC100F	EZC100F3020	293.00	-
25A	50%	EZC100F	EZC100F3025	293.00	-
32A	50%	EZC100F	EZC100F3032	293.00	-
40A	50%	EZC100F	EZC100F3040	293.00	-
50A	50%	EZC100F	EZC100F3050	293.00	-
63A	50%	EZC100F	EZC100F3063	293.00	-
80A	50%	EZC100F	EZC100F3080	293.00	-
100A	50%	EZC100F	EZC100F3100	293.00	-

3P/4P 15kA at 400/415 VAC



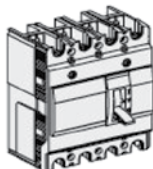
Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	4P 3t	Price (RM)
Fixed thermal magnetic trip unit						
16A	50%	EZC100N	EZC100N3016	411.00	EZC100N4016	606.00
20A	50%	EZC100N	EZC100N3020	411.00	EZC100N4020	606.00
25A	50%	EZC100N	EZC100N3025	411.00	EZC100N4025	606.00
32A	50%	EZC100N	EZC100N3032	411.00	EZC100N4032	606.00
40A	50%	EZC100N	EZC100N3040	411.00	EZC100N4040	606.00
50A	50%	EZC100N	EZC100N3050	411.00	EZC100N4050	606.00
63A	50%	EZC100N	EZC100N3063	411.00	EZC100N4063	606.00
80A	50%	EZC100N	EZC100N3080	411.00	EZC100N4080	606.00
100A	50%	EZC100N	EZC100N3100	411.00	EZC100N4100	606.00

3P 18kA at 400/415 VAC



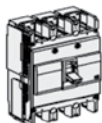
Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	
Fixed thermal magnetic trip unit					
125A	50%	EZC250F	EZC250F3125	702.00	-
160A	50%	EZC250F	EZC250F3160	702.00	-
200A	50%	EZC250F	EZC250F3200	899.00	-
250A	50%	EZC250F	EZC250F3250	899.00	-

3P/4P 30kA at 400/415 VAC



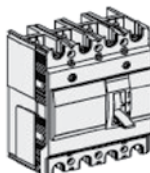
Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	4P 3t	Price (RM)
Fixed thermal magnetic trip unit						
16A	25%	EZC100H	EZC100H3016	423.00	-	
20A	25%	EZC100H	EZC100H3020	423.00	EZC100H4020	734.00
25A	25%	EZC100H	EZC100H3025	423.00	EZC100H4025	734.00
32A	25%	EZC100H	EZC100H3032	423.00	EZC100H4032	734.00
40A	25%	EZC100H	EZC100H3040	423.00	EZC100H4040	734.00
50A	25%	EZC100H	EZC100H3050	423.00	EZC100H4050	734.00
63A	25%	EZC100H	EZC100H3063	423.00	EZC100H4063	734.00
80A	25%	EZC100H	EZC100H3080	423.00	EZC100H4080	734.00
100A	25%	EZC100H	EZC100H3100	423.00	EZC100H4100	734.00

3P/4P 25kA at 400/415 VAC



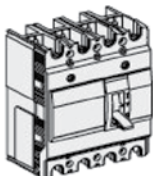
Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	4P 3t	Price (RM)
Fixed thermal magnetic trip unit						
125A	50%	EZC250N	EZC250N3125	818.00	EZC250N4125	1,971.00
160A	50%	EZC250N	EZC250N3160	818.00	EZC250N4160	1,971.00
200A	50%	EZC250N	EZC250N3200	1,085.00	EZC250N4200	2,266.00
250A	50%	EZC250N	EZC250N3250	1,085.00	EZC250N4250	2,266.00

3P/4P 36kA at 400/415 VAC



Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	4P 3t	Price (RM)
Fixed thermal magnetic trip unit						
63A	50%	EZC250H	-	-	EZC250H4063	1,485.00
80A	50%	EZC250H	-	-	EZC250H4080	1,485.00
100A	50%	EZC250H	EZC250H3100	903.00	EZC250H4100	1,485.00
125A	50%	EZC250H	EZC250H3125	903.00	EZC250H4125	1,177.00
160A	50%	EZC250H	EZC250H3160	903.00	EZC250H4160	1,177.00
200A	50%	EZC250H	EZC250H3200	1,174.00	EZC250H4200	2,775.00
250A	50%	EZC250H	EZC250H3250	1,174.00	EZC250H4250	2,775.00
320A	50%	EZC400N	EZC400N3320N	2,157.00	EZC400N4320N	3,806.00
400A	50%	EZC400N	EZC400N3400N	2,157.00	EZC400N4400N	3,806.00
500A	100%	EZC630N	EZC630N3500N	2,977.00	EZC630N4500N	4,183.00
600A	100%	EZC630N	EZC630N3600N	2,977.00	EZC630N4600N	4,183.00

3P/4P 50kA at 400/415 VAC



Rating	Ics (% of Icu)	Model	3P 3t	Price (RM)	4P 3t	Price (RM)
Fixed thermal magnetic trip unit						
320A	50%	EZC400H	EZC400H3320N	2,346.00	EZC400H4320N	4,564.00
400A	50%	EZC400H	EZC400H3400N	2,346.00	EZC400H4400N	4,564.00
500A	100%	EZC630H	EZC630H3500N	2,982.00	EZC630H4500N	5,247.00
600A	100%	EZC630H	EZC630H3600N	2,982.00	EZC630H4600N	5,247.00

3P 3t : Three poles with three poles protection

4P 3t : Four poles with three poles protection

EasyPact EZC Accessories

Accessories for EZC100 F/N/H

Connection accessories

Spreaders



Description	Reference	Price (RM)
Spreaders for 3P breakers (set of 3) * EZC 100 from 25mm to 35mm	EZASPD3P	66.00

Terminal shield



Description	Reference	Price (RM)
Terminal shields for 3P breakers (set of 2) *Degree of protection of IP20	EZATSHD3P	128.00

Phase barriers



Description	Reference	Price (RM)
Phase barriers (set of 2)	EZAFASB2	41.00

Electrical accessories

Indication contacts



Description	Reference	Price (RM)
Auxiliary switch (AX)	EZAUX10	145.00
Alarm switch (AL)	EZAUX01	156.00
Auxiliary switch/Alarm switch (AX/AL) *AX indicate ON/OFF *AL indicate due to tripping, short circuit/overload	EZAUX11	331.00

Shunt trip (SHT)



	Voltage	MX/SHT	
AC	100 - 130V	EZASHT100AC	282.00
	200 - 277V	EZASHT200AC	282.00
	380 - 480V	EZASHT380AC	282.00

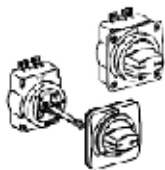
Undervoltage release (UVR)



	Voltage	MN/UVR	
AC	200 - 240V	EZAUVR200AC	454.00
	380 - 415V	EZAUVR380AC	454.00
DC	24V	EZAUVR024DC	442.00

Rotary handles

Rotary handle (for 3P/4P breakers)



Direct rotary handle (black)	EZAROTDS	258.00
Extended rotary handle (black)	EZAROTE	351.00

*Extended rotary handle comes with shaft
*Degree of protection IP40 or IP54
*Available in red/yellow, contact **CustomerCareCentre** for more information

Padlocking system



Padlocking system	EZALOCK	90.00
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Connection accessories**Terminal extension**

Description	Reference	Price (RM)
Terminal extension for 3-pole breaker	EZETEX	104.00
Terminal extension for 4-pole breaker	EZETEX4P	150.00

Spreaders

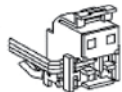
Description	Reference	Price (RM)
Spreaders for 3-pole breakers	EZESPDR3P	156.00
Spreaders for 4-pole breakers	EZESPDR4P	200.00

Terminal shield

Description	Reference	Price (RM)
Terminal shield for 3-pole breaker (60mm depth)	EZETSHD3P	156.00
Terminal shield for 4-pole breaker (68mm depth)	EZETSHD4PN	238.00

Phase barriers

Description	Reference	Price (RM)
Phase barriers for 60mm depth	EZEFASB2	51.00
Phase barriers for 68mm depth	EZEFASB3N	86.00

Electrical accessories**Indication contacts**

Description	Reference	Price (RM)
Auxiliary switch (AX)	EZEAX	156.00
Alarm switch (AL)	EZEAL	144.00
Auxiliary switch/Alarm switch (AX/AL)	EZEAXAL	374.00

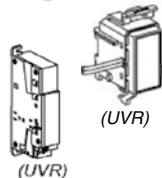
*AX indicate ON/OFF

*AL indicate due to tripping, short circuit/overload

Shunt trip (SHT)

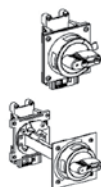
Voltage	MX/SHT	Price (RM)
AC 100 - 120V	EZESHT100AC	289.00
AC 200 - 240V	EZESHT200AC	289.00

DC 24V	EZESHT024DC	289.00
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Voltage	MN/UVR	Price (RM)	MN/UVR (1)	Price (RM)
AC 200 - 240V	EZEUVR200AC	794.00	EZEUVRN200AC	946.00
DC 24V	EZEUVR024DC	946.00	EZEUVRN024DC	946.00
DC 48V	EZEUVR048DC	946.00	EZEUVRN048DC	946.00

(1) Only EZC250-4P and EZCV250-3/4P.

Mechanical accessories**Rotary handle (for 3P/4P breakers)**

Description	Reference	Price (RM)
Direct rotary handle (black)	EZEROTDS	278.00
Extended rotary handle (black)	EZEROTE	388.00

* Extended rotary handle comes with shaft

* Degree of protection IP40 or IP54

* Available in red/yellow, contact CCC for more information

Padlocking system

Description	Reference	Price (RM)
Padlocking system for EZC250-3P	EZELOCK	101.00
Padlocking system for EZC250-4P and EZCV250-3/4P	EZELOCKN	127.00

EasyPact EZC Accessories

Connection accessories (Cu or Al) for EZC400/EZC630 N/H

Connection accessories (Cu or Al)

Rear connections



Description	Reference	Price (RM)
2 short	LV432475	330.00
2 long	LV432476	643.00

Bare cable connectors



Description	Reference	Price (RM)
Aluminium connectors 1 x (35 to 300 mm ²)	Set of 3 LV432479	627.00
	Set of 4 LV432480	838.00



Aluminium connectors for 2 cables 2 x (35 to 300 mm ²)	Set of 3 LV432481	921.00
	Set of 4 LV432482	1,525.00

6.35 mm voltage tap for steel or aluminium connectors	Set of 10 LV429348	165.00
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Terminal extensions



Description	Reference	Price (RM)
Edge-wise terminal extensions	Set of 3 LV432486	1,136.00
	Set of 4 LV432487	1,885.00



Right-angle terminal extensions	Set of 3 LV432484	369.00
	Set of 4 LV432485	623.00



Spreaders	52.5mm	3P	LV432490	363.00
		4P	LV432491	454.00
	70mm	3P	LV432492	503.00
		4P	LV432493	667.00

Crimp lugs for copper cable



Description	Reference	Price (RM)
For cable 240 mm ²	Set of 3 LV432500	459.00
	Set of 4 LV432501	734.00
For cable 300 mm ²	Set of 3 LV432502	631.00
	Set of 4 LV432503	839.00

Supplied with 2 or 3 interphase barriers

Crimp lugs for aluminium cable



Description	Reference	Price (RM)
For cable 240 mm ²	Set of 3 LV432504	1,181.00
	Set of 4 LV432505	1,563.00
For cable 300 mm ²	Set of 3 LV432506	2,058.00
	Set of 4 LV432507	2,821.00

Supplied with 2 or 3 interphase barriers

Insulation accessories



Description	Reference	Price (RM)	
Short terminal shield, 45mm (1 piece)	3P	LV432591	133.00
	4P	LV432592	155.00



Long terminal shield, 45mm (1 piece)	3P	LV432593	241.00
	4P	LV432594	291.00



Long terminal shield for spreaders, 52.5mm (1 piece) (supplied with insulating plate)	3P	LV432595	363.00
	4P	LV432596	438.00

Interphase barriers	Set of 6	LV432570	134.00
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*For EZC400/EZC600 share common accessories with CVS & NSX

Electrical auxiliaries**Auxiliary contacts (changeover)**

Description	Reference	Price (RM)
OF or SD or SDE or SDV	29450	176.00
OF or SD or SDE or SDV low level	29452	307.00
SDE adaptor mandatory for trip unit TM	LV540050	111.00

Voltage releases

	Voltage	MX	Price (RM)	MN	Price (RM)
AC	110-130V 50/60Hz	LV429386	361.00	LV429406	506.00
	220-240V 50/60Hz and 208-277V 60Hz	LV429387	361.00	LV429407	506.00
	380-415V 50Hz and 440-480V 60Hz	LV429388	361.00	LV429408	506.00
DC	24V	LV429390	361.00	LV429410	506.00
	48V	LV429392	361.00	LV429412	506.00
	125V	LV429393	361.00	LV429413	506.00

MN 48V 50/60Hz with fixed time delay

Composed of:	MN 48 V DC	LV429412	506.00
	Delay unit 48 V 50/60 Hz	LV429426	899.00

MN 220-240V 50/60Hz with fixed time delay

Composed of:	MN 250 V DC	LV429414	506.00
	Delay unit 220-240 V 50/60 Hz	LV429427	827.00

MN 48V DC/AC 50/60Hz with adjustable time delay

Composed of:	MN 48 V DC	LV429412	506.00
	Delay unit 48 V 50/60 Hz	33680	2,252.00

MN110-130V DC/AC 50/60Hz with adjustable time delay

Composed of:	MN 125 V DC	LV429413	506.00
	Delay unit 110-130 V 50/60 Hz	33681	2,252.00

MN 220-250V 50/60Hz with adjustable time delay

Composed of:	MN 250V DC	LV429414	506.00
	Delay unit 220-250V 50/60Hz	33682	1,853.00

*For EZC400/EZC630 share common accessories with CVS & NSX

EasyPact EZC Accessories

Rotary handles and Locks for EZC400/EZC630 N/H

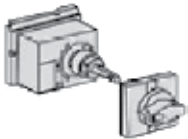
Rotary handles

Direct rotary handle



<i>Description</i>	<i>Reference</i>	<i>Price (RM)</i>
Standard black handle	LV432597	516.00

Extended rotary handle



<i>Description</i>	<i>Reference</i>	<i>Price (RM)</i>
Standard extended rotary handle	LV432598	726.00

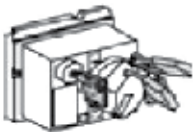
Locks

Toggle locking device for 1 to 3 padlocks



<i>Description</i>	<i>Reference</i>	<i>Price (RM)</i>
By removable device	29370	108.00
By fixed device	LV432631	238.00

Locking of the rotary handle



<i>Description</i>	<i>Reference</i>	<i>Price (RM)</i>
Keylock adaptor (keylock not included)	LV432604	151.00
Keylock (keylock adaptor not included)	Ronis 1351B.500	238.00
	Profalux KS5 B24 D4Z	42888
		383.00

Moulded Case Circuit Breaker

EasyPact CVS

Adjustable MCCB, 3-pole/4-poles, 25kA-50kA	2-1
Motor protection MCCB, 3-pole/4-poles, 25kA-50kA	2-2

EasyPact CVS 100/160/250 Accessories

Connection accessories	2-3
Electrical Auxiliaries	2-4
Rotary Handles, Locks and Interlocking	2-5
Spare parts	2-6

EasyPact CVS 400/630 Accessories

Connection Accessories	2-7
Electrical Auxiliaries	2-8
Rotary Handles	2-9
Locks and Interlocking	2-10
Spare parts	2-11

Compact NS

Fixed MCCB : 800 A to 1600 A, 3P/4P 50kA - 150kA	2-12
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Compact NS800/1600 Accessories

	2-13
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EasyPact CVS

Easy Choice for Quality and Value



- Breaking capacity 25kA to 50kA
- 16A -800A 3P & 4P TMD & Microprocessor trip units.
- Isolation with positive break indication
- Class II Front Face
- Best in class current limiting performance (Low Let through Energy)
- Highest electrical endurance in its class
- Best in class contact resistance which help to achieve energy efficiency objectives

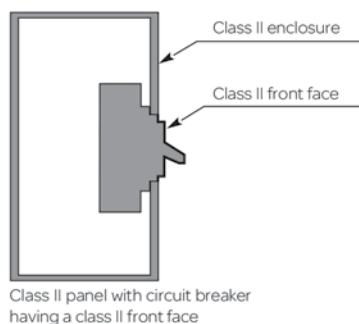
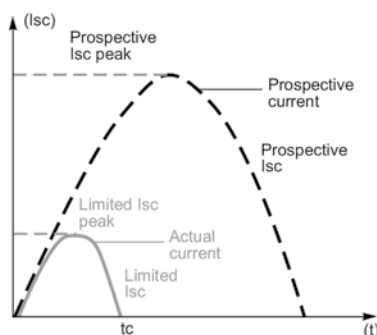
EasyPact CVS MCCBs most advance

technology enhances the service life of

Electrical installation (Cables /Bus Bars /Loads)



- Current limiting circuit breakers greatly reduce the negative effect of short circuit on installation , which reduce Thermal , Mechanical and Electromagnetic effect on entire electrical distribution network (Cables, Bus Bars , Loads etc.)
- Class II Front Face of MCCBs enhances operator & installation safety.
- High electrical endurance enhances continuity of services for longer time.
- Low contact resistance reduce energy consumptions



The limiting capacity of a circuit breaker is the aptitude to let through a current during a short circuit that is less than the prospective short- circuit current

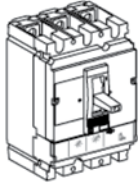
EasyPact CVS

Adjustable MCCB : 16A to 630A

Pole(s) : 3P/4P

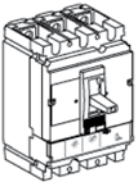
Icu : 25kA - 50kA (Ics = 100% Icu)

25kA at 380/415 VAC



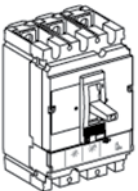
Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	CVS100B	LV510300	593.00	LV510310	1,004.00
25A	100%	CVS100B	LV510301	593.00	LV510311	1,004.00
32A	100%	CVS100B	LV510302 ❖	593.00	LV510312	1,004.00
40A	100%	CVS100B	LV510303	593.00	LV510313	1,004.00
50A	100%	CVS100B	LV510304	593.00	LV510314	1,004.00
63A	100%	CVS100B	LV510305 ❖	593.00	LV510315	1,004.00
80A	100%	CVS100B	LV510306	593.00	LV510316	1,004.00
100A	100%	CVS100B	LV510307 ❖	593.00	LV510317	1,004.00
125A	100%	CVS160B	LV516302	918.00	LV516312	1,685.00
160A	100%	CVS160B	LV516303 ❖	918.00	LV516313	1,685.00
200A	100%	CVS250B	LV525302	1,216.00	LV525312	2,540.00
250A	100%	CVS250B	LV525303 ❖	1,216.00	LV525313	2,540.00

36kA at 380/415 VAC



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	CVS100F	LV510330	600.00	LV510340	1,045.00
25A	100%	CVS100F	LV510331	600.00	LV510341	1,045.00
32A	100%	CVS100F	LV510332 ❖	600.00	LV510342	1,045.00
40A	100%	CVS100F	LV510333	600.00	LV510343	1,045.00
50A	100%	CVS100F	LV510334	600.00	LV510344	1,045.00
63A	100%	CVS100F	LV510335 ❖	600.00	LV510345	1,045.00
80A	100%	CVS100F	LV510336	600.00	LV510346	1,045.00
100A	100%	CVS100F	LV510337 ❖	600.00	LV510347	1,045.00
125A	100%	CVS160F	LV516332	959.00	LV516342	1,250.00
160A	100%	CVS160F	LV516333 ❖	959.00	LV516343	1,250.00
200A	100%	CVS250F	LV525332	1,362.00	LV525342	2,942.00
250A	100%	CVS250F	LV525333 ❖	1,362.00	LV525343	2,942.00
320A	100%	CVS400F	LV540305 ❖	2,287.00	LV540308	4,034.00
400A	100%	CVS400F	LV540306 ❖	2,287.00	LV540309	4,034.00
500A	100%	CVS630F	LV563305	3,044.00	LV563308	4,435.00
600A	100%	CVS630F	LV563306 ❖	3,044.00	LV563309	4,435.00

50kA at 380/415V



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	CVS100N	LV510470	768.00	LV510480	1,637.00
25A	100%	CVS100N	LV510471	768.00	LV510481	1,310.00
32A	100%	CVS100N	LV510472 ❖	768.00	LV510482	1,310.00
40A	100%	CVS100N	LV510473	768.00	LV510483	1,310.00
50A	100%	CVS100N	LV510474	768.00	LV510484	1,310.00
63A	100%	CVS100N	LV510475 ❖	768.00	LV510485	1,310.00
80A	100%	CVS100N	LV510476	768.00	LV510486	1,310.00
100A	100%	CVS100N	LV510477 ❖	768.00	LV510487	1,310.00
125A	100%	CVS160N	LV516462	1,143.00	LV516467	1,798.00
160A	100%	CVS160N	LV516463 ❖	1,143.00	LV516468	1,798.00
200A	100%	CVS250N	LV525452	1,608.00	LV525457	3,236.00
250A	100%	CVS250N	LV525453 ❖	1,608.00	LV525458	3,236.00
320A	100%	CVS400N	LV540315 ❖	2,452.00	LV540318	4,839.00
400A	100%	CVS400N	LV540316 ❖	2,452.00	LV540319	4,839.00
500A	100%	CVS630N	LV563315	3,162.00	LV563318	5,563.00
600A	100%	CVS630N	LV563316 ❖	3,162.00	LV563319	5,563.00

❖ **NORMAL STOCK ITEMS**

Recommended to add spreaders for ratings 160A and above

3P 3d : Three poles with three poles protection

4P 3d : Four poles with three poles protection

EasyPact CVS

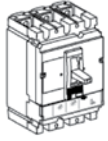
Motor protection MCCB

MA instantaneous trip units

Pole(s) : 3P Icu : 25kA - 50kA (Ics = 100% Icu)

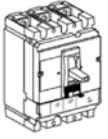
2

25kA at 380/415 VAC



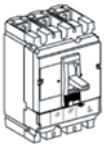
Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)
MA magnetic trip unit				
MA2.5	100%	CVS100B	LV510430	1,133.00
MA6.3	100%	CVS100B	LV510431	1,133.00
MA12.5	100%	CVS100B	LV510432	1,133.00
MA25	100%	CVS100B	LV510433	906.00
MA50	100%	CVS100B	LV510434	906.00
MA100	100%	CVS100B	LV510435	906.00
MA150	100%	CVS160B	LV516431	1,022.00
MA220	100%	CVS250B	LV525436	1,264.00

36kA at 380/415 VAC



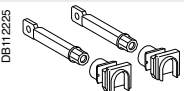
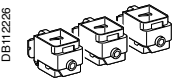
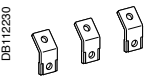
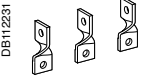
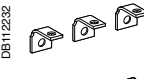
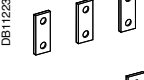
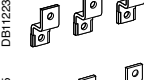
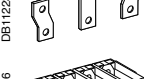
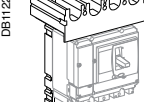
Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)P
MA magnetic trip unit				
MA2.5	100%	CVS100F	LV510440	988.00
MA6.3	100%	CVS100F	LV510441	988.00
MA12.5	100%	CVS100F	LV510442	988.00
MA25	100%	CVS100F	LV510443	988.00
MA50	100%	CVS100F	LV510444	988.00
MA100	100%	CVS100F	LV510445	988.00
MA150	100%	CVS160F	LV516440	1,039.00
MA220	100%	CVS250F	LV525439	1,371.00
MA320	100%	CVS400F	LV540550	2,379.00
MA500	100%	CVS630F	LV563550	2,379.00

50kA at 380/415V



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)
MA magnetic trip unit				
MA320	100%	CVS400N	LV540552	2,855.00
MA500	100%	CVS630N	LV563552	3,282.00


Recommended to add spreaders for ratings 160A and above
 3P 3d : Three poles with three poles protection

Connection accessories (Cu or Al)				Reference	Price (RM)
Rear connections					
	2 short			LV429235	204.00
	2 long			LV429236	274.00
Bare cable connectors					
	Steel connectors	1 x (1.5 to 95mm ²)	Set of 3	LV429242	140.00
			Set of 4	LV429243	181.00
Terminal extensions					
	45° terminal extension (1)		Set of 3	LV429223	143.00
			Set of 4	LV429224	155.00
	Edgewise terminal extensions (1)		Set of 3	LV429308	137.00
			Set of 4	LV429309	301.00
	Right-angle terminal extensions (1)		Set of 3	LV429261	151.00
			Set of 4	LV429262	205.00
	Straight terminal extensions (1)		Set of 3	LV429263	121.00
			Set of 4	LV429264	165.00
	Double-L terminal extensions (1)		Set of 3	LV429221	188.00
			Set of 4	LV429222	245.00
	Spreaders from 35 to 45mm pitch (1)		3P	LV431563	141.00
			4P	LV431564	191.00
	One-piece spreader from 35 to 45mm pitch		3P	LV431060	810.00
			4P	LV431061	778.00
			3P/4P	LV431064	273.00

(1) Supplied with 2 or 3 interphase barriers.

Electrical auxiliaries Reference Price (RM)


Auxiliary contacts (changeover)

DB112254 	OF or SD or SDE or SDV	29450	176.00
	OF or SD or SDE or SDV low level	29452	307.00
	SDE adapter, mandatory for trip unit TM, MA or Micrologic 2	LV429451	111.00


SDx output module for Micrologic

DB112275 	SDx module 24/415V AC/DC	LV429532	1,681.00
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SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.2-M / 6.2E-M


DB112276 	SDTAM 24/415V AC/DC overload fault indication	LV429424	1,338.00
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Voltage releases (SHT)

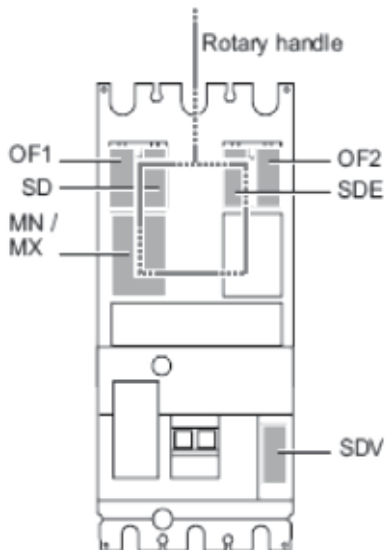
	Voltage	MX/SHT	Price (RM)
DB11454 	AC	110-130V 50/60Hz	LV429386 361.00
		220-240V 50/60Hz and 208-277V 60Hz	LV429387 361.00
		380-415V 50/60Hz and 440-480V 60Hz	LV429388 361.00
DC	24V	LV429390	361.00
	48V	LV429392	361.00
	125V	LV429393	361.00

Other AC and DC voltages available upon request

Undervoltage releases (UVR)

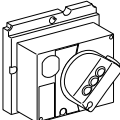
	Voltage	MN/UVR	Price (RM)
DB11454 	AC	110-130V 50/60Hz	LV429406 506.00
		220-240V 50/60Hz and 208-277V 60Hz	LV429407 506.00
		380-415V 50/60Hz and 440-480V 60Hz	LV429408 506.00
DC	24V	LV429410	506.00
	48V	LV429412	506.00
	125V	LV429413	506.00

Other AC and DC voltages available upon request



Rotary handles

Direct rotary handle

DB112259		With black handle	LV429337	330.00
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Extended rotary handle

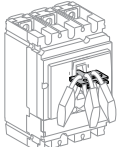
DB112260		With black handle	LV429338	442.00
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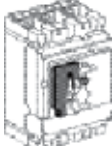
Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV429345	754.00
	2 early-make contacts	LV429346	769.00

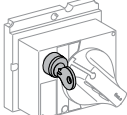
Locks

Toggle locking device for 1 to 3 padlocks

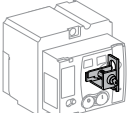
DB112261		By removable device	29370	108.00
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DB112262		By fixed device	LV429371	138.00
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Locking of rotary handle

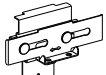
DB112263		Keylock adapter (keylock not included) (2)	LV429344	138.00	
		Keylock (keylock adapter not included)	Ronis 1351B.500	41940	320.00
			Profalux KS5 B24 D4Z	42888	383.00

Locking of motor mechanism module

DB112264		Keylock adapter + Ronis keylock (special)	LV429449	610.00
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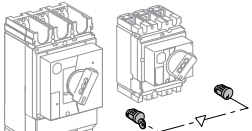
Interlocking

Mechanical interlocking for circuit breakers

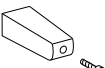
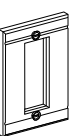
DB111466		With toggles	CVS 29354	1,807.00
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DB111487		With rotary handles	LV429369	1,370.00
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Interlocking with key (2 keylocks / 1 key) for rotary handles

DB112268		Keylock adapter (keylock not included) (2)	LV429344	138.00	
		1 set of 2 keylocks	Ronis 1351B.500	41950	582.00
		(1 key only, keylock adapter not included)	Profalux KS5 B24 D4Z	42878	772.00

(1) For only 1 device.

Spare parts		Reference	Price (RM)
DB111430	 <p>10 spare toggle extensions</p>	LV429313	188.00
DB115620	 <p>Bag of screws</p>	LV429312	71.00
DB111433	 <p>Small cut-out</p>	LV429528	115.00
DB111438	 <p>1 set of 10 identification labels</p>	LV429226	130.00

Connection accessories (Cu or Al)

Rear connections

		Reference	Price (RM)
	2 short	LV432475	330.00
	2 long	LV432476	643.00

Terminal extensions ⁽¹⁾

	45° terminal extensions	Set of 3	LV432586	500.00
		Set of 4	LV432587	530.00

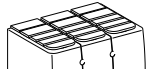
	Edgewise terminal extensions	Set of 3	LV432486	1,136.00
		Set of 4	LV432487	1,885.00


	Right-angle terminal extensions	Set of 3	LV432484	369.00
		Set of 4	LV432485	623.00

	Spreaders	52.5mm (for 400A)	3P	LV432490	363.00
			4P	LV432491	454.00
		70mm (for 630A)	3P	LV432492	503.00
			4P	LV432493	667.00

Insulation accessories

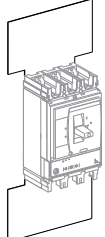
			Price (RM)	
	Short terminal shield, 45mm (1 piece)	3P	LV432591	133.00
		4P	LV432592	155.00

	Long terminal shield, 45mm (1 piece)	3P	LV432593	241.00
		4P	LV432594	291.00

	Long terminal shield for spreaders, 52.5mm (1 piece) (supplied with insulating plate)	3P	LV432595	363.00
		4P	LV432596	438.00

	Interphase barriers	Set of 6	LV432570	134.00
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	Connection adapter for plug-in base	3P	LV432584	192.00
		4P	LV432585	213.00

	2 insulating screens (70mm pitch)	3P	LV432578	167.00
		4P	LV432579	233.00

Electrical auxiliaries

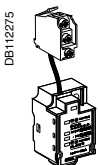
Auxiliary contacts (changeover)

	Reference	Price (RM)
OF or SD or SDE or SDV	29450	176.00
OF or SD or SDE or SDV low level	29452	307.00



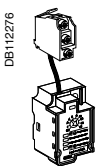
SDx output module for Micrologic electronic trip unit

SDx module 24/415V AC/DC (1)	LV429532	1,681.00
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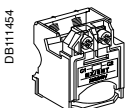
SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.3-M/6.3 E-M

SDTAM 24/415V AC/DC overload fault indication (1)	LV429424	1,338.00
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Voltage releases (SHT)

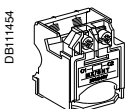
	Voltage	MX/SHT	Price (RM)
AC	110-130V 50/60Hz	LV429386	361.00
	220-240V 50/60Hz and 208-277V 60Hz	LV429387	361.00
	380-415V 50/60Hz and 440-480V 60Hz	LV429388	361.00
DC	24V	LV429390	361.00
	48V	LV429392	361.00
	125V	LV429393	361.00



Other AC and DC voltages available upon request

Undervoltage releases (UVR)

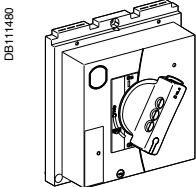
	Voltage	MN/Closing	Price (RM)
AC	110-130V 50/60Hz	LV429406	506.00
	220-240V 50/60Hz and 208-277V 60Hz	LV429407	506.00
	380-415V 50/60Hz and 440-480V 60Hz	LV429408	506.00
DC	24V	LV429410	506.00
	48V	LV429412	506.00
	125V	LV429413	506.00



(1) Other AC and DC voltages available upon request.

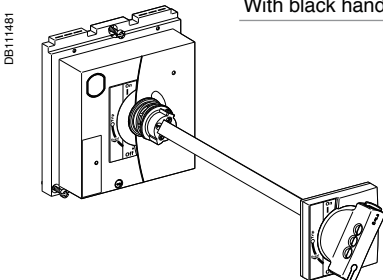
Rotary handles

Direct rotary handle		Reference	Price (RM)
	With black handle	LV432597	516.00



Extended rotary handle

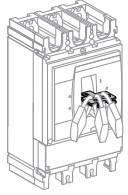
	With black handle	LV432598	726.00
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Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV432605	754.00
	2 early-make contacts	LV429346	769.00

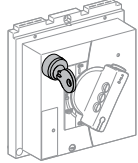
Locks

Toggle locking device for 1 to 3 padlocks		Reference	Price (RM)
	By removable device	29370	108.00
	By fixed device	LV432631	238.00

DB111483

DB111482

Locking of rotary handle

	Keylock adapter (keylock not included)		LV432604	151.00
	Keylock (keylock adapter not included)	Ronis 1351B.500	41940	320.00
		Profalux KS5 B24 D4Z	42888	383.00

DB111484

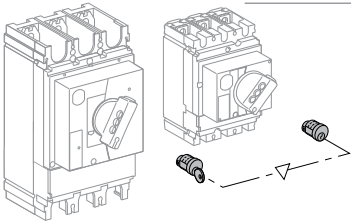
Interlocking

Mechanical interlocking for circuit breakers		Reference	Price (RM)
	With toggles	LV432614	1,466.00
	With rotary handles	LV432621	1,519.00

DB111485

DB111487

Interlocking with key (2 keylocks / 1 key) for rotary handles

	Keylock adapter (keylock not included) (1)		LV432604	151.00
	1 set of 2 keylocks	Ronis 1351B.500	41950	582.00
	(1 key only, keylock adapter not included)	Profalux KS5 B24 D4Z	42878	772.00

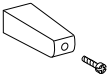
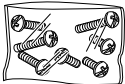

DB112268

(1) For only 1 device.

Compact

NSX and CVS Accessories 400/630

Spare parts

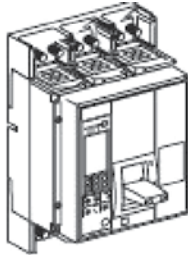
Spare parts		Reference	Price (RM)
DB111430 	5 spare toggle extensions	LV432553	395.00
DB115620 	Bag of screws	LV432552	78.00
DB111438 	1 set of 10 identification labels	LV429226	130.00

Compact NS

Fixed MCCB (Manual Type) : 800A to 1600A

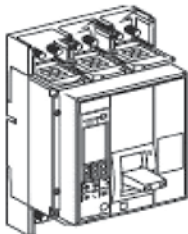
Pole(s) : 3P/4P

Icu : 50kA - 150kA

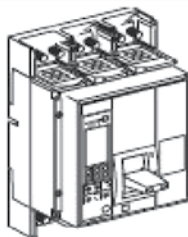
Front-connected circuit breaker with Micrologic 2.0 control unit

Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	33466	7,431.00	33469	11,362.00
1000A	100%	NS1000N	33472	10,160.00	33475	15,200.00
1250A	100%	NS1250N	33478	13,396.00	33480	16,983.00

Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type L. Icu = 150kA at 220/415 Vac						
800A	100%	NS800L	33468	20,326.00	33471	24,205.00
1000A	100%	NS1000L	33474	31,380.00	33477	35,296.00

Fixed front connected Micrologic 2.0E

Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	34404	8,385.00	34406	12,280.00
1000A	100%	NS1000N	34408	11,499.00	34410	15,573.00
1250A	100%	NS1250N	34412	14,658.00	34414	18,488.00





Fixed front connected Micrologic 5.0E



Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	34424	8,674.00	34426	12,696.00
1000A	100%	NS1000N	34428	11,892.00	34430	17,086.00
1250A	100%	NS1250N	34432	15,209.00	34434	19,121.00

(*) Please consult our **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free) for the items below.


- Front-connected circuit breaker with Micrologic 5.0 control unit.
- Front-connected circuit breaker with Micrologic 6.0E control unit.
- Front-connected circuit breaker with Micrologic 2.0E control unit.
- Front-connected circuit breaker with Micrologic 5.0E control unit.
- Front-connected circuit breaker with motorised operation.

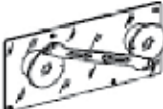
(*) For electrical operated version, please consult CustomerCareCenter for Ics rating

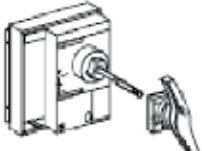
Connection accessories		Front connection		Rear connection	
Bare-cable connectors + 1 connector shield for 4 cables (240mm²)					
	3P (3 parts)	33640	2,745.00		-
	4P (4 parts)	33641	2,901.00		-
1 long connection shield					
	3P	33628	396.00		-
	4P	33629	452.00		-
Interphase barriers					
	3P/4P top (3 parts)	33646	171.00	33648	360.00
	3P/4P bottom (3 parts)	33646	171.00	33648	360.00
Arc chute screen					
	3P	33596	276.00		-
	4P	33597	359.00		-

Electrical auxiliaries							
OF, ON/OFF indication contacts							
	OF, ON/OFF indication contacts	6A - 240V		29450	176.00		
	Up to 3 OF, 1 SD and 1 SDE can be connected (the SDE contact is standard for electrically operated devices).						
Instantaneous voltage releases							
	Voltage	MX/SHT	Price (RM)	MN/UVR	Price (RM)	MN Delay unit	Price (RM)
						Rr (adjustable)	
	24-30V DC, 24V AC	33659	710.00	33668	710.00		
	100-130V AC/DC	33661	710.00	33670	710.00		
	200-250V AC/DC	33662	710.00	33671	710.00	33682	1,853.00
380-480V AC	33664	710.00	33673	710.00			
(1) Except 33680 is 48/609V AC/DC							

Locking for manually operated devices			
Removable toggle locking system			
	Locking by 3 padlocks		44936 106.00

Rotary handle for manually operated devices			
Devices with direct rotary handles			
	Handle and front	Black handle and black front	33863 648.00
			Ronis
	Locking by keylocks	OFF position	33870 352.00
		OFF and ON positions	33872 423.00
	Keylock kit (without keylocks)		33868 112.00

Mechanical interlocking			
	For 2 devices with extended rotary handles		33890 1,062.00

Devices with extended rotary handles			
	Handle and front	Black handle and black front	33878 1,109.00

Air Circuit Breaker

EasyPact MVS

EasyPact

MVS08 to MVS40

ACB without Protection, $I_{cu}=I_{cs}=I_{cw}(1s)=50kA$	3-1
ACB without Protection, $I_{cu}=I_{cs}=I_{cw}(1s)=65kA$	3-2

MVS Accessories

Remote Operation	3-3
Indication Contacts	3-4
Connection Accessories	3-4
Chassis Locking	3-4
Circuit Breaker Locking	3-5
Mechanical Interlocking	3-5

Order form for EasyPact MVS	3-6
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EasyPact MVS

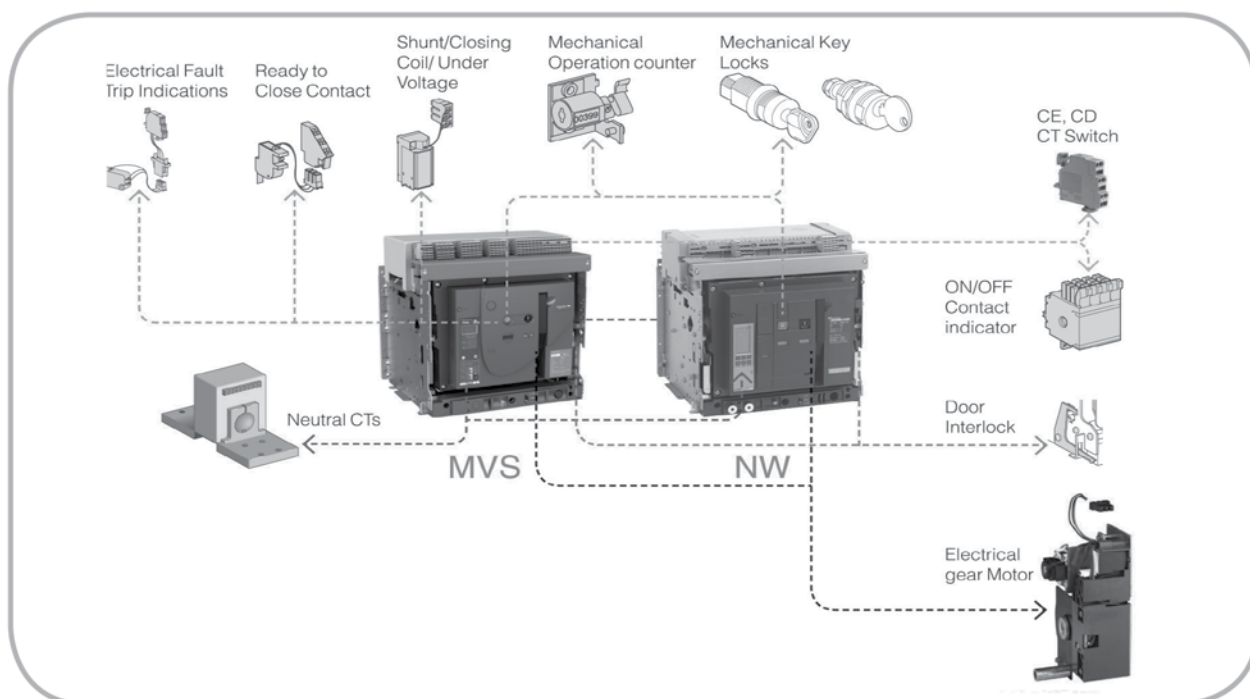


EasyPact MVS with

- Single Frame for 800A to 4000A
- Fixed, Draw out type
- Entire Range $I_{cu}=I_{cs}=I_{cw}=50kA$ for 1sec @440V.
- Suitability for applications up to 690 V
- Trip Units with built in Current and Voltage metering
- Same accessories of MasterPact NW
- Flexible terminal orientation enables horizontal or vertical alignment changes in the field*



NW & MVS Share the same footprint of Masterpact Value System



*Not possible for 4000A

Range	Current rating	Type	Pole	Operating mechanism	Installation	Protection No.	Type
EasyPact MVS (from 800 to 4000A) Icu=Ics=Icw (1 sec)=50kA & 65kA							
MVS	08	N	3	M	F	2	L
	10	H	4	N	W	5	A
	12			O		6	V
	16			P		0	D
	20			Q			
	25			R			
	32			S			
	40			T			
3	2	1	1	1	1	1	1
							Type
							L Basic protection
							A Protection+Current metering
							V Protection+Voltage metering
							D Switch Disconnector
							P Unprotected Circuit Breaker
							Protections No.
							2 LI protection
							5 LSI protection
							6 LSIG protection
							0 No protection for switch disconnector
							Type of installation
							F Fixed
							W Draw-out
							Operating mechanism
							M Manually operated ACB/SD
							N Electrical 200/240 VAC MCH + XF + MX
							O Electrical 110/130 VAC MCH + XF + MX
							P Electrical 380/415 VAC MCH + XF + MX
							Q Electrical 200/250 VDC MCH + XF + MX
							R Electrical 100/125 VDC MCH + XF + MX
							S Electrical 48/60V DC MCH + XF + MX
							T Electrical 24/30V DC MCH + XF + MX
							Number of poles
							3P 3 Poles
							4P 4 Poles
							Type based on breaking capacity
							N Circuit breaker/ switch disconnector Icu=Ics=Icw(1sec)=50kA
							H Circuit breaker/ switch disconnector Icu=Ics=Icw(1sec)=65kA
							Current rating
							08 800A
							10 1000A
							12 1250A
							16 1600A
							20 2000A
							25 2500A
							32 3200A
							40 4000A

Example 1

MVS32N4EW6L

MVS	32	N	4	E	W	6	L
EasyPact MVS	3200A	50kA	4 Pole	Electrical operated	Draw-out type	LSIG protection	Basic trip unit with LED indications

Example 2

MVS16H3MF0P

MVS	16	H	3	M	F	0	P
EasyPact MVS	1600A	65kA	3 Pole	Manual operated	Fixed	No protection	Unprotected circuit breaker

MVS08 to MVS40

ACB without Protection
Icu=Ics=Icw(1s)=50kA

Unprotected versions

EasyPact MVS				Price (RM)		Price (RM)	
In (A at 40°C)	Icu/Ics (kA @ 220/415V)	Icw (1sec)	Fixed		Drawout		
			3P	4P	3P	4P	
MVS08			MVS08N3MF0PS	MVS08N4MF0PS	MVS08N3MW0PS*	MVS08N4MW0PS*	
800	50/50*	50	12,355.00	14,812.00	13,947.00	16,598.00	
MVS10			MVS10N3MF0PS	MVS10N4MF0PS	MVS10N3MW0PS*	MVS10N4MW0PS*	
1000	50/50*	50	12,882.00	14,986.00	14,433.00	18,091.00	
MVS12			MVS12N3MF0PS	MVS12N4MF0PS	MVS12N3MW0PS*	MVS12N4MW0PS*	
1250	50/50*	50	13,955.00	16,957.00	15,634.00	19,015.00	
MVS16			MVS16N3MF0PS	MVS16N4MF0PS	MVS16N3MW0PS*	MVS16N4MW0PS*	
1600	50/50*	50	14,966.00	17,239.00	16,796.00	20,282.00	
MVS20			MVS20N3MF0PS	MVS20N4MF0PS	MVS20N3MW0PS*	MVS20N4MW0PS*	
2000	50/50*	50	19,950.00	24,321.00	22,854.00	27,401.00	
MVS25			MVS25N3MF0PS	MVS25N4MF0PS	MVS25N3MW0PS*	MVS25N4MW0PS*	
2500	50/50*	50	24,455.00	29,399.00	28,436.00	33,144.00	
MVS32			MVS32N3MF0PS	MVS32N4MF0PS	MVS32N3MW0PS*	MVS32N4MW0PS*	
3200	50/50*	50	31,387.00	37,411.00	35,834.00	41,914.00	
MVS40			MVS40N3MF0PS	MVS40N4MF0PS	MVS40N3MW0PS*	MVS40N4MW0PS*	
4000	55/55*	55	38,631.00	43,404.00	43,283.00	49,535.00	

* Icu/Ics value are refer to the unprotected circuit breaker, tripping by shunt trip as per IEC 60947-2.

An EasyPact MVS ACB without protection consists of:

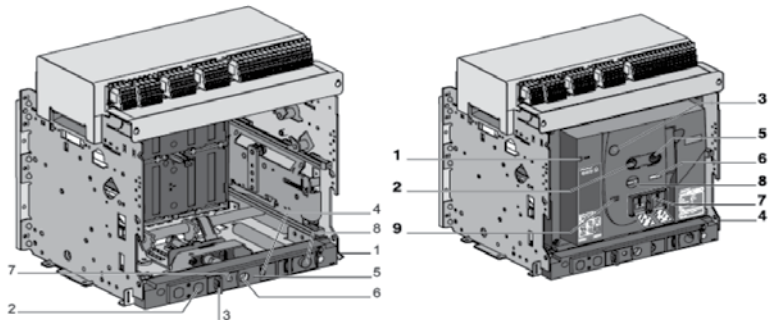
- the basic switch-disconnector.
- connections for both top and bottom horizontal/vertical upon request.
- 4 auxiliary contacts (4 OF).
- 1 Door Frame Escutcheon.
- 1 opening release 200-250VAC/DC (MX).

Additional equipped for drawout device

- chassis with safety shutter.

Various auxiliaries and accessories may also be added.

◆ NORMAL STOCK ITEMS



- 1 Door interlock.
- 2 Keylock locking.
- 3 Padlock locking.
- 4 Position indicator.
- 5 Chassis front plate (accessible with cubicle door closed).
- 6 Racking-handle entry.
- 7 Release button.
- 8 Racking-handle storage.

- 1 Reset button for mechanical trip indication.
- 2 OFF pushbutton.
- 3 OFF position lock.
- 4 Door interlock.
- 5 ON pushbutton.
- 6 Spring charge indication.
- 7 Pushbutton locking.
- 8 Contact position indication.
- 9 Operation counter.

MVS08 to MVS40

ACB without Protection

Icu=Ics=Icw(1s)=65kA

Unprotected versions

EasyPact MVS	In (A at 40°C)	Icu/Ics (kA @ 220/415V)	Icw (1sec)	Price (RM)		Price (RM)	
				Fixed		Drawout	
				3P	4P	3P	4P
MVS08	800	65/65 [◆]	65	MVS08H3MF0PS 14,644.00	MVS08H4MF0PS 17,427.00	MVS08H3MW0PS [◆] 16,411.00	MVS08H4MW0PS [◆] 19,529.00
MVS10	1000	65/65 [◆]	65	MVS10H3MF0PS 14,921.00	MVS10H4MF0PS 17,628.00	MVS10H3MW0PS [◆] 16,979.00	MVS10H4MW0PS 21,284.00
MVS12	1250	65/65 [◆]	65	MVS12H3MF0PS 16,415.00	MVS12H4MF0PS 19,948.00	MVS12H3MW0PS [◆] 18,421.00	MVS12H4MW0PS 22,593.00
MVS16	1600	65/65 [◆]	65	MVS16H3MF0PS 17,636.00	MVS16H4MF0PS 21,297.00	MVS16H3MW0PS [◆] 19,759.00	MVS16H4MW0PS [◆] 23,862.00
MVS20	2000	65/65 [◆]	65	MVS20H3MF0PS 23,713.00	MVS20H4MF0PS 28,772.00	MVS20H3MW0PS [◆] 26,886.00	MVS20H4MW0PS [◆] 32,238.00
MVS25	2500	65/65 [◆]	65	MVS25H3MF0PS 29,061.00	MVS25H4MF0PS 34,801.00	MVS25H3MW0PS [◆] 33,453.00	MVS25H4MW0PS [◆] 38,991.00
MVS32	3200	65/65 [◆]	65	MVS32H3MF0PS 37,306.00	MVS32H4MF0PS 44,010.00	MVS32H3MW0PS [◆] 42,156.00	MVS32H4MW0PS [◆] 49,312.00
MVS40	4000	65/65 [◆]	65	MVS40H3MF0PS 54,819.00	MVS40H4MF0PS 51,064.00	MVS40H3MW0PS 50,921.00	MVS40H4MW0PS 57,214.00

* Icu/Ics value are refer to the unprotected circuit breaker, tripping by shunt trip as per IEC 60947-2.

An EasyPact MVS ACB without protection consists of:

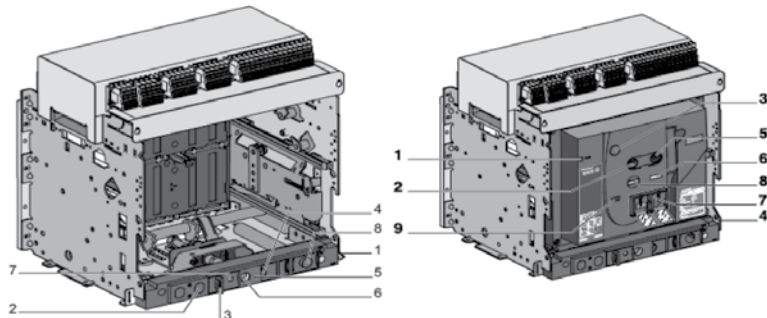
- the basic switch-disconnector.
- connections for both top and bottom horizontal/vertical upon request.
- 4 auxiliary contacts (4 OF).
- 1 Door Frame Escutcheon.
- 1 opening release 200-250VAC/DC (MX).

Additional equipped for drawout device

- chassis with safety shutter.

Various auxiliaries and accessories may also be added.

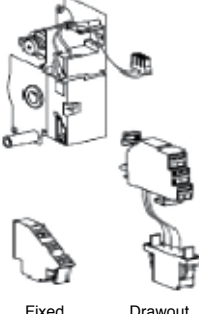
◆ NORMAL STOCK ITEMS



- 1 Door interlock.
- 2 Keylock locking.
- 3 Padlock locking.
- 4 Position indicator.
- 5 Chassis front plate (accessible with cubicle door closed).
- 6 Racking-handle entry.
- 7 Release button.
- 8 Racking-handle storage.

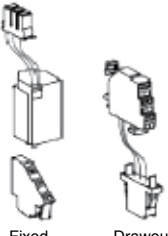
- 1 Reset button for mechanical trip indication.
- 2 OFF pushbutton.
- 3 OFF position lock.
- 4 Door interlock.
- 5 ON pushbutton.
- 6 Spring charge indication.
- 7 Pushbutton locking.
- 8 Contact position indication.
- 9 Operation counter.

Remote operation

Gear motor		Fixed	Price (RM)	Drawout	Price (RM)
MCH (1 part)					
	AC 50/60Hz	100/130V	48211	5,642.00	48526
		200/240V	48212	5,642.00	48527

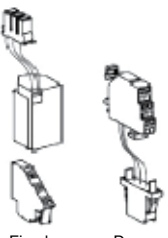
Fixed

Drawout

Closing release (XF)		Fixed	Price (RM)	Drawout	Price (RM)
Standard coil (1 part)					
	AC 50/60Hz	100/130V AC/DC	MVS21801	823.00	MVS21802
	DC	200/250V AC/DC	MVS21803	823.00	MVS21804

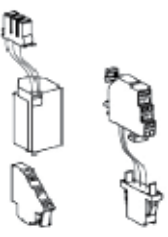
Fixed

Drawout

Opening release (MX)		Fixed	Price (RM)	Drawout	Price (RM)
Standard coil (1 part)					
	AC 50/60Hz	100/130V AC/DC	47362	823.00	48493
	DC	200/250V AC/DC	47363	823.00	48494


Fixed

Drawout

Undervoltage release (MN)		Fixed	Price (RM)	Drawout	Price (RM)
Undervoltage release (1 part)					
	AC 50/60Hz	100/130V AC/DC	47382	823.00	48503
	DC	200/250V AC/DC	47383	823.00	48504

Fixed

Drawout

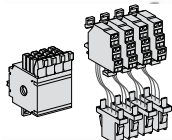
MN delay unit		Reference	Price (RM)	Reference	Price (RM)
MN delay unit (1 part)		R (non-adjustable)		Rr (adjustable)	
	AC 50/60Hz	48/60V AC/DC			
	DC	100/130V AC/DC	33684	1,399.00	
		200/250V AC/DC	33685	1,519.00	33682
	380/480V AC/DC				

MVS Accessories

Indication Contacts, Connection Accessories and Chassis Accessories

Indication contacts

ON/OFF indication contacts (OF) / 12 parts	Fixed	Price (RM)	Drawout	Price (RM)
1 additional block of 4 contacts	48198	1,315.00	48468	1,315.00



“Ready to close” contact (1 max.) / 1 part	Fixed	Price (RM)	Drawout	Price (RM)
1 changeover contact (5A - 240V)	47342	324.00	48469	324.00



“Connected, disconnected, test position” indication contact (carriage switches) / 1 part	Fixed	Price (RM)	Drawout	Price (RM)
Changeover contacts 6A - 240V			33170	332.00



Auxiliary terminals for chassis alone

3-wire terminal (1 part)	47849	138.00
6-wire terminal (1 part)	47850	342.00
Jumpers (10 parts)	47900	231.00

Connection accessories

Interphase barriers / Replacement kit (3 parts)	Reference	Price (RM)	Reference	Price (RM)
For fixed rear-connected circuit breaker	48599	943.00	48599	943.00
For drawout rear-connected circuit breaker	48600	1,090.00	48600	1,090.00



Chassis accessories

Auxiliary terminal shield (CB) / 1 part	Reference	Price (RM)
800/4000A 3P	64942	434.00
4P	48596	700.00



Shutter locking block (for replacement) / 1 part	Reference	Price (RM)
2 parts for 800/4000A	48591	119.00



Chassis locking

“Disconnected” position locking / 1 part (for spare parts)	Reference	Price (RM)
By padlocks		
VCPO		Standard
By Ronis keylocks		
1 lock with 1 key + adaptation kit	48572	1,221.00
2 locks 1 key + adaptation kit	48573	1,238.00
2 locks 2 different keys + adaptation kit	48574	1,238.00



Door interlock / 1 part	Reference	Price (RM)
Right and left-hand side of chassis (VPECD or VPECG)	47914	494.00



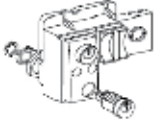
Circuit breaker locking

Pushbutton locking device / 1 part		Reference	Price (RM)
By padlocks		48536	427.00



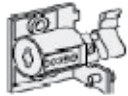
OFF position locking / 1 part

By Ronis keylocks		Reference	Price (RM)
Ronis	1 lock with 1 key + adaptation kit	48549	1,146.00
	2 locks 1 keys + adaptation kit	48550	2,469.00
	2 locks 2 different keys + adaptation kit	48551	3,617.00



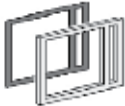
Mechanical operation counter / 1 part

Operation counter CDM	48535	509.00
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Door Frame (Escutcheon) and accessories / 1 part

	Reference	Price (RM)	Reference	Price (RM)
	Fixed		Drawout	
Door Frame (Escutcheon)	48601	700.00	48603	700.00
Transparent cover (IP 54)			48604	2,507.00



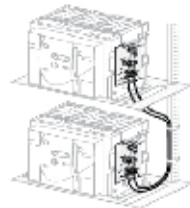
Door Frame

IP54 Cover

Mechanical interlocking for source changeover

Interlocking of 2 devices using cables (1)

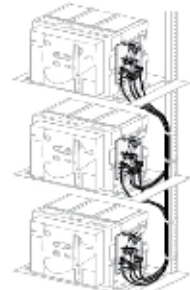
	Reference	Price (RM)
Choose 2 adaptation sets (1 for each device + 1 set of cables)		
1 adaptation fixture for EasyPact MVS fixed devices	47926	2,767.00
1 adaptation fixture for EasyPact MVS drawout devices	47926	2,767.00
1 set of 2 cables	33209	762.00



(1) Can be used with any combination of EasyPact MVS, fixed or drawout devices.

Interlocking of 3 devices using cables

	Reference	Price (RM)
Choose 3 adaptation (including 3 adaptation fixtures + cables)		
3 sources, only 1 device closed, fixed or drawout devices	48610	8,632.00
2 sources + 1 coupling, fixed or drawout devices	48609	10,790.00
2 normal + 1 replacement source, fixed or drawout devices	48608	10,345.00



Order ref no:

Date:

Product ref no:

EasyPact MVS

Circuit breaker and Switch-disconnectors
Customer Order form

To indicate your choices, check the applicable square boxes

And enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector Quantity

Rating	A	<input type="text"/>
Circuit breaker	N / H	<input type="text"/>
Switch Disconnector	NA / HA	<input type="text"/>
Number of poles	3 or 4	<input type="text"/>
Type of equipment	Fixed	<input type="checkbox"/>
	Drawout with chassis	<input type="checkbox"/>
Operating Mechanism	Manual Operated	<input type="checkbox"/>
	Electrical Operated	<input type="checkbox"/>
MCH - Gear motor		<input type="checkbox"/> V
XF - Closing coil		<input type="checkbox"/> V
MX - Shunt / Opening voltage release		<input type="checkbox"/> V

ET Range of Trip System

ET - Without display	2I	<input type="checkbox"/>	5S	<input type="checkbox"/>	6G	<input type="checkbox"/>
ETA - Current Metering	2I	<input type="checkbox"/>	5S	<input type="checkbox"/>	6G	<input type="checkbox"/>
ETV - Voltage Metering	2I	<input type="checkbox"/>	5S	<input type="checkbox"/>	6G	<input type="checkbox"/>

LR - Long-time rating plug Standard 0.4 to 1 lr

Connection

Horizontal	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
Vertical	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>

Trip System functions:

2I : Basic protection (long time + inst.)

5S : Selective protection (long time + short time + inst.)

6G : Selective + earth-fault protection
(long time + short time + inst. + earth-fault)

Indication contacts

OF - ON/OFF indication contacts

Standard	1 block of 4 OF	10A - 240 / 380V AC	<input type="checkbox"/>
Additional	1 block of 4 OF	6A - 240 / 380V AC	<input type="checkbox"/>

SDE - "fault-trip" indication contact

Standard	1 SDE	5A - 240 / 380V AC	<input type="checkbox"/>
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Optional

Carriage switches		8A - 240 / 380V AC	<input type="checkbox"/>
CE - "Connected" position	Max 3	qty	<input type="checkbox"/>
CT - "Test" position	Max 3	qty	<input type="checkbox"/>
CD - "Disconnected" position	Max 3	qty	<input type="checkbox"/>

Remote tripping

MN - Under voltage release		V	<input type="checkbox"/>
R - Delay unit (fixed time delay)	0.25s		<input type="checkbox"/>
Rr - Adjustable delay unit	0.5s ... 3s		<input type="checkbox"/>

AD - External power-supply module **V**

TCE - External sensor (NCT) for neutral of 3 Phase - 4 Wire systems 400 / 2000A

TCE - External sensor (NCT) for neutral of 3 Phase - 4 Wire systems 1000 / 4000A

PF - "Ready to close" contact

Locks

VBP - ON/OFF pushbutton locking (by transparent cover using padlock)

VSPO - Device locking in OFF position by key lock (Only one key lock per ACB possible)

Key lock kit (w/o key lock)	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
1 key lock	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 identical key locks, 1 key	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>

Chassis locking in "Disconnected" position:

VSPD - by key locks

Key lock kit (w/o key lock)	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
1 key lock	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 identical key locks, 1 key	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>

Door Interlock - VPEC

On left-hand side of chassis (LH)

On right-hand side of chassis (RH)

Mechanical Interlocking of ACBs with Cable

1 normal source & 1 replacement source (2 devices)	<input type="checkbox"/>
2 normal + 1 replacement source, fixed or drawout devices	<input type="checkbox"/>
2 sources with coupler on busbars (3 devices)	<input type="checkbox"/>
3 sources, only 1 device closed, fixed or drawout devices	<input type="checkbox"/>

Accessories

VO - Safety shutters on chassis	Standard	<input type="checkbox"/>
CDP - Escutcheon	Standard	<input type="checkbox"/>
Safety Shutter locking blocks		<input type="checkbox"/>
CP - Transparent cover for escutcheon		<input type="checkbox"/>
OP - Blanking plate for escutcheon		<input type="checkbox"/>
CDM - Mechanical operation counter for MVS		<input type="checkbox"/>
CB - Auxiliary terminal shield fitted on chassis		<input type="checkbox"/>
EIP - Interphase barriers		<input type="checkbox"/>
HHTK - Hand held test kit		<input type="checkbox"/>

- Notes:**
- Customer can provide only the reference no. of the product for the listed references. Kindly refer to product catalogue for list of references.
 - Customer to fill this order form for non-listed references.
 - All breakers will be provided with 1 OF (4 c/o contacts), 1 SDE (trip contact), Escutcheon (Panel sealing frame) as standard.
 - All drawout type devices will be supplied with Chassis & safety shutter.
 - For electrical operated devices, indicate the voltage ratings of MCH, XF & MX.
 - Refer to product catalogue for available voltage ratings of MCH, XF, MX, MN & AD Module.
 - The orientation of connecting terminals can be changed at site from Horizontal to Vertical or vice-versa.

Earth Fault and Monitoring Relays

Vigirex

Residual Current Protection Relays

Vigirex RH99

4-1

Sensors

Closed Toroids, A-type

4-1

Residual Current Protection Relays

Vigirex RH99

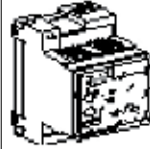
Sensors

Closed Toroids, A-type

RH99 with local manual fault reset

- Residual current protection relays with separate toroids
- Isolation mounting
- Solution that can be used with all Compact circuit breakers

RH99M



DIN-rail mount.

RH99P

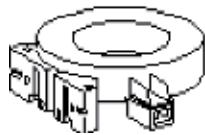


Front-panel mount.

Description	Reference	Price (RM)	Reference	Price (RM)
<ul style="list-style-type: none"> - Power supply: 220 to 240V AC - Adjustment from 30mA to 30A - Time delay 0 to 4.5s 	56173	1,452.00	56273	1,265.00
<ul style="list-style-type: none"> - Power supply: 220 to 240V AC - With Automatic Fault Reset - 30mA Instantaneous - Adjustment from 100mA to 30A - Time delay 0 to 4.5s 	56193	1,454.00	56293	1,527.00

Sensors

Closed toroids, A-type



Type	le (A) rated operational current	Inside diameter (mm)	Reference	Price (RM)
TA30	65	30	50437	659.00
PA50	85	50	50438	1,333.00
IA80	160	80	50439	1,663.00
MA120	250	120	50440	2,851.00
SA200	400	200	50441	7,330.00
GA300	630	300	50442	7,557.00

4

Compact

Compact INS

INS40 to 160

Switch disconnecter : 40A to 160A, 3P/4P
Accessories

5-1

INS250 to 630

Switch disconnecter : 250A to 630A, 3P/4P
Accessories

5-2

INS800 to 1600

Switch disconnecter : 250A to 630A, 3P/4P
Accessories

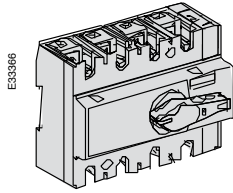
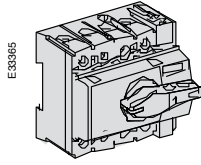
5-3

INS40 to 160

Switch disconnecter : 40A to 160A

Pole(s) : 3P/4P

Compact INS40 to 160 standard version with black handle



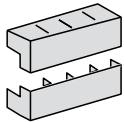
	3-pole	Price (RM)	4-pole	Price (RM)
Compact INS40	28900	293.00	28901	342.00
Compact INS63	28902	324.00	28903	398.00
Compact INS80	28904	413.00	28905	465.00

	3-pole	Price (RM)	4-pole	Price (RM)
Compact INS100	28908	556.00	28909	608.00
Compact INS125	28910	550.00	28911	654.00
Compact INS160	28912	766.00	28913	870.00

* For red handle and yellow front version, kindly contact **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free).

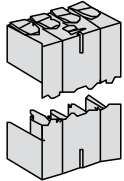
Connection accessories

Terminal shrouds



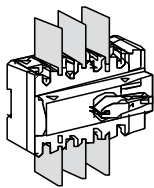
	Reference	Price (RM)
INS40 to 80	28955	154.00
INS100 to 160	28956	208.00

Terminal shields



INS40 to 80	28957	171.00
INS100 to 160	28958	255.00

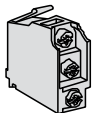
Interphase barriers



INS100 to 160	28959	185.00
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Electrical auxiliaries

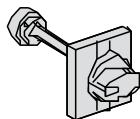
Auxiliary contacts



1 OF / CAF / CAO (standard)	INS40 to 160	29450	176.00
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Rotary handles

Accessories for conversion to extended rotary handles



Front control	Black handle	INS40 to 160	LV428941	259.00
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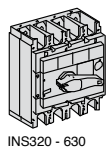
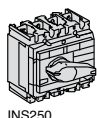
- OF (ON/OFF): indicates the position of the switch-disconnector poles.
- CAM (early-make or early-break function): indicates the position of the handle.
- CAO early-break switch (auxiliary contacts open before the main contacts).

INS250 to 630

Switch disconnecter : 250A to 630A

Pole(s) : 3P/4P

Compact INS250 to 630 standard version with black handle

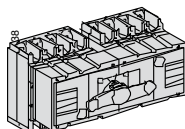


	Price (RM)		Price (RM)	
	3-pole		4-pole	
Compact INS250	31106	1,378.00	31107	1,646.00
Compact INS320	31108	1,638.00	31109	2,401.00
Compact INS400	31110	1,802.00	31111	2,753.00
Compact INS500	31112	2,916.00	31113	3,302.00
Compact INS630	31114	3,110.00	31115	3,821.00

* For red handle and yellow front version, kindly contact **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free).

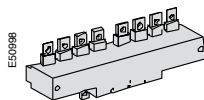
Source changeover systems Price (RM)

Complete assembly



	Switch Rating (A)	4-pole	
With Compact INS250	100	31141	4,110.00
With Compact INS250	160	31145	4,411.00
With Compact INS250	250	31147	5,568.00
With Compact INS320	320	31149	8,479.00
With Compact INS400	400	31151	9,574.00
With Compact INS500	500	31153	11,060.00
With Compact INS630	630	31155	9,938.00

Downstream coupling accessories



	4-pole	
For Compact INS250	29359	3,500.00
Long downstream 3P/4P terminal shields (set of 2)	29324	159.00
For Compact INS320 to 630	32620	4,000.00
Long downstream 3P/4P terminal shields (set of 2)	32565	250.00

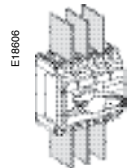
Connection accessories Price (RM) Price (RM)

Terminal shields



	INS250		INS320 to 630			
Short	3/4 P	Set of 2	29322	141.00	32563	250.00
Long	3/4 P	Set of 2	29324	159.00	32565	250.00
Long for 52.5mm spreader (supplied with insulating plate)		Set of 2			32583	800.00

Interphase barriers



	Set of 6	LV429329	94.00	LV432570	134.00
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Electrical auxiliaries Reference Price (RM)

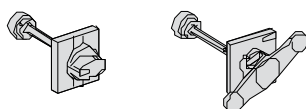
Auxiliary contacts (changeover type)



OF or CAM (early-make or break)	29450	170.00
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Rotary handles Reference Price (RM)

Extended front control



For INS250 with standard rotary handle	LV431050	359.00
For complete source changeover assembly	31055	657.00
For INS320/400/630 with standard rotary handle	31052	365.00
For complete source changeover assembly	31055	657.00

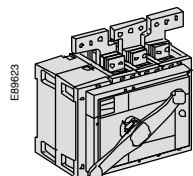
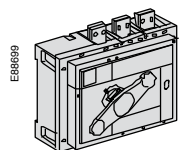
- OF (ON/OFF): indicates the position of the switch-disconnector poles.
- CAM (early-make or early-break function): indicates the position of the handle.

INS800 to 1600

Switch disconnecter : 800A to 2500A

Pole(s) : 3P/4P

Compact INS800 to 2500 standard version with black handle

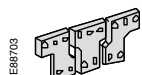


	Price (RM)		Price (RM)	
	3-pole		4-pole	
Compact INS800	31330	9,388.00	31331	9,826.00
Compact INS1000	31332	12,086.00	31333	12,849.00
Compact INS1250	31334	14,361.00	31335	21,298.00
Compact INS1600	31336	15,529.00	31337	20,540.00
Compact INS2000	31338	22,744.00	31339	31,451.00
Compact INS2500	31340	23,250.00	31341	36,839.00

* For red handle and yellow front version, kindly contact **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free).

Connection accessories

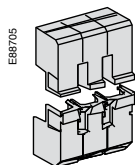
Spreaders



			Reference	Price (RM)
INS800/1600	3P	Set of 3	31305	1,520.00
	4P	Set of 4	31306	2,002.00
Connector for INS2000/2500			31310	2,937.00

Insulation accessories

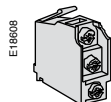
Terminal shield (requires base for terminal shield)



			Reference	Price (RM)
INS800/1600	3P		33628	396.00
	4P		33629	452.00

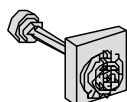
Electrical auxiliaries

Auxiliary contacts (changeover type)



OF or CAM (early-make or break)	29450	176.00
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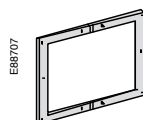
Extended front control



INS800-2500	For standard rotary handle	31288	784.00
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Installation accessories

Escutcheon



INS800-2500	3P/4P	31295	246.00
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Final Distribution

Easy9

Easy9 Circuit Breakers 4.5kA	6-1
Easy9 Circuit Breakers 6kA	6-2
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DC circuit supplementary protectors for photovoltaic

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Horizontal comb busbar for 18 mm pitch for Acti9

Circuit Protection

Easy9 Circuit Breakers 4.5kA

Easy9 circuit breakers

Type	Voltage (V)	Breaking capacity as in IEC60898 Icn (kA)
1 & 2P	230/400	4.5
3P	400	4.5

Pole	Width in 9mm mod	Rating (A)	C curve	
			Reference	Price (RM)
1P	2	6	EZ9F34106	21.80
		10	EZ9F34110	21.80
		16	EZ9F34116	21.80
		20	EZ9F34120	21.80
		25	EZ9F34125	21.80
		32	EZ9F34132	21.80
		40	EZ9F34140	31.00
		50	EZ9F34150	46.10
		63	EZ9F34163	46.10

2P	4	6	EZ9F34206	68.80
		10	EZ9F34210	68.80
		16	EZ9F34216	68.80
		20	EZ9F34220	68.80
		25	EZ9F34225	68.80
		32	EZ9F34232	68.80
		40	EZ9F34240	68.80
		50	EZ9F34250	87.70
		63	EZ9F34263	86.40

3P	6	6	EZ9F34306	103.30
		10	EZ9F34310	103.30
		16	EZ9F34316	103.30
		20	EZ9F34320	103.30
		25	EZ9F34325	103.30
		32	EZ9F34332	104.30
		40	EZ9F34340	104.30
		50	EZ9F34350	129.90
		63	EZ9F34363	129.90



Circuit Protection

Easy9 Circuit Breakers 6kA

Easy9 circuit breakers

Type	Voltage (V)	Breaking capacity as in IEC60898 Icn (kA)
1 & 2P	230/400	6
3P	400	6

Pole	Width in 9mm mod	Rating (A)	C curve	
			Reference	Price (RM)
1P	2	6	EZ9F56106	22.80
		10	EZ9F56110	22.80
		16	EZ9F56116	22.80
		20	EZ9F56120	22.80
		25	EZ9F56125	22.80
		32	EZ9F56132	22.80
		40	EZ9F56140	35.10
		50	EZ9F56150	63.90
		63	EZ9F56163	63.90

2P	4	6	EZ9F56206	80.90
		10	EZ9F56210	80.90
		16	EZ9F56216	80.90
		20	EZ9F56220	80.90
		25	EZ9F56225	80.90
		32	EZ9F56232	80.90
		40	EZ9F56240	81.20
		50	EZ9F56250	141.80
		63	EZ9F56263	141.70

3P	6	6	EZ9F56306	126.30
		10	EZ9F56310	126.30
		16	EZ9F56316	126.30
		20	EZ9F56320	126.30
		25	EZ9F56325	126.30
		32	EZ9F56332	126.30
		40	EZ9F56340	126.30
		50	EZ9F56350	241.80
		63	EZ9F56363	241.80



Circuit Protection

Easy9 Circuit Breakers 10kA

Easy9 circuit breakers

Type	Voltage (V)	Breaking capacity as in IEC60898 Icn (kA)
1& 2P	230/400	10
3P	400	10

Pole	Width in mod. of 9mm	Rating (A)	C curve	
			Reference	Price (RM)
1P	2	6	EZ9F51106	44.40
		10	EZ9F51110	44.40
		16	EZ9F51116	44.40
		20	EZ9F51120	44.40
		32	EZ9F51132	44.40
		40	EZ9F51140	44.40
		63	EZ9F51163	81.70



2P	4	6	EZ9F51206	101.10
		10	EZ9F51210	101.10
		16	EZ9F51216	101.10
		20	EZ9F51220	101.10
		32	EZ9F51232	101.10
		40	EZ9F51240	101.10
		63	EZ9F51263	154.40



3P	6	6	EZ9F51306	156.60
		10	EZ9F51310	156.60
		16	EZ9F51316	156.60
		20	EZ9F51320	156.60
		32	EZ9F51332	156.60
		40	EZ9F51340	156.60
		63	EZ9F51363	281.30



Circuit Protection

Easy9 Residual Current Devices

Residual current circuit breakers (RCCB)



Pole	Voltage 50 Hz (V)	Rating (A)	Sensitivity (mA)	Reference	Price (RM)	
2P	240V	25	10	EZ9R14225	239.60	
			10	EZ9R26225	239.60*	
			30	EZ9R36225	283.00	
			100	EZ9R56225	236.30	
			300	EZ9R66225	325.70	
			40	30	EZ9R36240	240.50
		100		EZ9R56240	155.00	
		300		EZ9R66240	314.70	
		63		30	EZ9R36263	285.70
				100	EZ9R56263	220.00
				300	EZ9R66263	382.90
		4P	415V	25	30	EZ9R36425
100	EZ9R56425				451.60	
300	EZ9R66425				351.80	
40	30			EZ9R36440	447.40	
	100			EZ9R56440	304.20	
	300			EZ9R66440	264.20	
63	30			EZ9R36463	672.20	
	100			EZ9R56463	396.40	
	300			EZ9R66463	337.60	

Residual current operated circuit breaker (RCBO)



Pole	Voltage 50 Hz (V)	Rating (A)	Sensitivity (mA)	Breaking Capacity(kA)	Reference	Price (RM)
1P+N	240V	25	10	6	EZ9D16625	268.20
A Type		32	10	6	EZ9D16632	289.30

Circuit Breakers

iC60N (curve C, D)



IEC/EN 60947-2 (10kA)
IEC/EN 60898-1 (6kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2		Service breaking capacity (Ics)
	Voltage (Ue)	
Ph/Ph (2P, 3P, 4P)	380 to 415V	100% of Icu
Ph/N (1P)	220 to 240V	
Rating (In)	1 to 4A	75% of Icu
	6 to 63A	10kA

iC60N circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve	
			Reference	Price (RM)	Reference	Price (RM)
1P	2	1	A9F74101	109.80	A9F75101	238.20
		2	A9F74102	107.70	A9F75102	188.80
		3	A9F74103	107.70	A9F75103	188.80
		4	A9F74104	107.70	A9F75104	173.90
		6	A9F74106	37.20	A9F75106	156.90
		10	A9F74110	37.20	A9F75110	156.90
		16	A9F74116	37.20	A9F75116	155.50
		20	A9F74120	37.20	A9F75120	156.90
		25	A9F74125	38.20	A9F75125	156.90
		32	A9F74132	40.30	A9F75132	156.90
		40	A9F74140	41.80	A9F75140	155.50
		50	A9F74150	77.80	A9F75150	233.90
		63	A9F74163	79.80	A9F75163	278.70
2P	4	1	A9F74201	261.50	A9F75201	446.90
		2	A9F74202	267.70	A9F75202	446.90
		3	A9F74203	267.70	A9F75203	408.00
		4	A9F74204	261.50	A9F75204	408.00
		6	A9F74206	116.90	A9F75206	361.40
		10	A9F74210	116.90	A9F75210	335.30
		16	A9F74216	116.90	A9F75216	335.30
		20	A9F74220	116.90	A9F75220	335.30
		25	A9F74225	116.90	A9F75225	335.30
		32	A9F74232	125.30	A9F75232	365.00
		40	A9F74240	136.40	A9F75240	442.80
		50	A9F74250	230.20	A9F75250	492.70
		63	A9F74263	230.00	A9F75263	641.90

Circuit Breakers

iC60N (curve C, D) (cont.)



IEC/EN 60947-2 (10kA)
IEC/EN 60898-1 (6kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2			Service breaking capacity (Ics)
	Voltage (Ue)		
Ph/Ph (2P, 3P, 4P)	380 to 415V		
Ph/N (1P)	220 to 240V		
Rating (In)	1 to 4A	50kA	100% of Icu
	6 to 63A	10kA	75% of Icu

iC60N circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve			
			Reference	Price (RM)	Reference	Price (RM)		
3P	6	1	A9F74301	428.10	A9F75301	683.70		
		2	A9F74302	428.10	A9F75302	683.70		
		3	A9F74303	428.10	A9F75303	683.70		
		4	A9F74304	428.10	A9F75304	1,006.70		
		6	A9F74306	190.20	A9F75306	558.60		
		10	A9F74310	190.20	A9F75310	553.50		
		16	A9F74316	190.20	A9F75316	553.50		
		20	A9F74320	186.80	A9F75320	558.60		
		25	A9F74325	190.20	A9F75325	558.60		
		32	A9F74332	199.80	A9F75332	558.60		
		40	A9F74340	210.50	A9F75340	677.60		
		50	A9F74350	386.70	A9F75350	927.30		
		63	A9F74363	379.50	A9F75363	983.00		
		4P	8	1	A9F74401	880.30	A9F75401	1,243.40
				2	A9F74402	697.50	A9F75402	1,081.90
3	A9F74403			704.00	A9F75403	1,077.60		
4	A9F74404			704.00	A9F75404	1,081.90		
6	A9F74406			434.90	A9F75406	704.00		
10	A9F74410			445.20	A9F75410	697.50		
16	A9F74416			432.80	A9F75416	697.50		
20	A9F74420			441.00	A9F75420	704.00		
25	A9F74425			445.20	A9F75425	759.20		
32	A9F74432			457.60	A9F75432	759.20		
40	A9F74440			504.80	A9F75440	925.90		
50	A9F74450			902.00	A9F75450	1,593.10		
63	A9F74463			902.00	A9F75463	1,329.50		

Circuit Breakers

iC60H (curve C, D)



IEC/EN 60947-2 (15kA)
IEC/EN 60898-1 (10kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

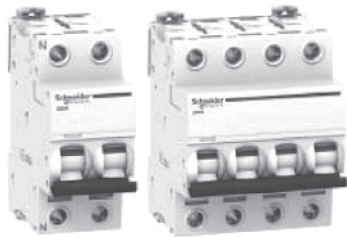
		Voltage (Ue)	Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 4P)		380 to 415V	
Ph/N (1P)		220 to 240V	
Rating (In)	1 to 4A	70kA	100% of Icu
	6 to 40A	15kA	50% of Icu
	50 / 63A	15kA	50% of Icu

iC60H circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve			
			Reference	Price (RM)	Reference	Price (RM)		
1P	2	1	A9F84101	119.00	A9F85101	243.10		
		2	A9F84102	147.90	A9F85102	243.10		
		3	A9F84103	156.60	A9F85103	305.50		
		4	A9F84104	122.50	A9F85104	276.80		
		6	A9F84106	126.60	A9F85106	196.90		
		10	A9F84110	116.70	A9F85110	196.90		
		16	A9F84116	116.70	A9F85116	176.00		
		20	A9F84120	116.70	A9F85120	336.00		
		25	A9F84125	121.10	A9F85125	422.40		
		32	A9F84132	116.70	A9F85132	331.20		
		40	A9F84140	121.10	A9F85140	417.00		
		50	A9F84150	178.90	A9F85150	315.90		
		63	A9F84163	177.20	A9F85163	511.90		
		2P	4	1	A9F84201	320.00	A9F85201	727.10
				2	A9F84202	337.00	A9F85202	727.10
3	A9F84203			336.90	A9F85203	727.10		
4	A9F84204			320.00	A9F85204	661.20		
6	A9F84206			319.70	A9F85206	470.70		
10	A9F84210			319.70	A9F85210	581.00		
16	A9F84216			316.60	A9F85216	437.40		
20	A9F84220			319.70	A9F85220	460.10		
25	A9F84225			325.50	A9F85225	470.70		
32	A9F84232			316.60	A9F85232	470.70		
40	A9F84240			316.60	A9F85240	727.10		
50	A9F84250			468.00	A9F85250	987.90		
63	A9F84263			459.50	A9F85263	949.40		

Circuit Breakers

iC60H (curve C, D) (cont.)



IEC/EN 60947-2 (15kA)
IEC/EN 60898-1 (10kA)

Alternating current (AC) 50/60Hz

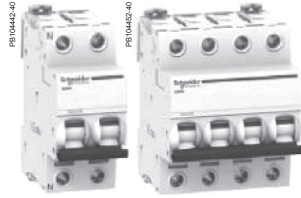
Breaking capacity (Icu) according to IEC/EN 60947-2			Service breaking capacity (Ics)
	Voltage (Ue)		
Ph/Ph (2P, 3P, 4P)	380 to 415V		100% of Icu
Ph/N (1P)	220 to 240V		
Rating (In)	1 to 4A	70kA	50% of Icu
	6 to 40A	15kA	50% of Icu
	50 / 63A	15kA	50% of Icu

iC60H circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve	
			Reference	Price (RM)	Reference	Price (RM)
3P	6	1	A9F84301	523.70	A9F85301	811.70
		2	A9F84302	551.50	A9F85302	811.70
		3	A9F84303	660.90	A9F85303	1,024.40
		4	A9F84304	523.70	A9F85304	1,024.40
		6	A9F84306	528.00	A9F85306	811.70
		10	A9F84310	528.00	A9F85310	811.70
		16	A9F84316	528.00	A9F85316	811.70
		20	A9F84320	513.00	A9F85320	811.70
		25	A9F84325	532.70	A9F85325	811.70
		32	A9F84332	528.00	A9F85332	804.10
		40	A9F84340	518.00	A9F85340	1,307.90
		50	A9F84350	769.20	A9F85350	1,307.90
		4P	8	63	A9F84363	754.90
1	A9F84401			993.70	A9F85401	1,444.00
2	A9F84402			829.30	A9F85402	1,444.00
3	A9F84403			993.70	A9F85403	1,444.00
4	A9F84404			993.70	A9F85404	1,444.00
6	A9F84406			800.90	A9F85406	1,449.00
10	A9F84410			800.90	A9F85410	1,148.00
16	A9F84416			793.50	A9F85416	1,148.00
20	A9F84420			800.90	A9F85420	1,148.00
25	A9F84425			933.10	A9F85425	1,449.00
32	A9F84432			793.50	A9F85432	1,148.00
40	A9F84440			800.90	A9F85440	1,148.00
50	A9F84450			1,123.80	A9F85450	1,717.10
63	A9F84463	1,113.60	A9F85463	1,610.60		

Circuit Breakers

iC60L (curve C)



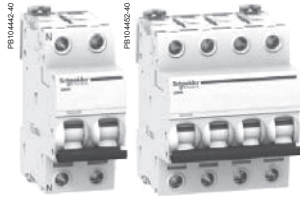
IEC/EN 60947-2 (20kA)
IEC/EN 60898-1 (15kA)

Alternating current (AC) 50/60Hz						
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Ph/Ph (2P, 3P, 4P)	12 to 133V	220 to 240V	380 to 415V	440V		
Ph/N (1P)	12 to 60V	100 to 133V	220 to 240V	-		
Rating (In)	0.5 to 4A	100kA	100kA	100kA	70kA	100% of Icu
	6 to 25A	70kA	50kA	25kA	20kA	50% of Icu
	32 / 40A	70kA	36kA	20kA	15kA	50% of Icu
	50 / 63A	70kA	30kA	15kA	10kA	50% of Icu

iC60L circuit breakers				
Pole	Width in 9mm mod	Rating (A)	C curve Reference	Price (RM)
1P	2	1	A9F94101	179.00
		2	A9F94102	149.30
		3	A9F94103	189.00
		4	A9F94104	149.30
		6	A9F94106	149.30
		10	A9F94110	149.30
		16	A9F94116	118.50
		20	A9F94120	118.50
		25	A9F94125	149.30
		32	A9F94132	149.30
		40	A9F94140	149.30
		50	A9F94150	279.30
		63	A9F94163	221.30
2P	4	1	A9F94201	420.00
		2	A9F94202	399.90
		3	A9F94203	399.90
		4	A9F94204	399.90
		6	A9F94206	396.20
		10	A9F94210	399.90
		16	A9F94216	399.90
		20	A9F94220	399.90
		25	A9F94225	399.90
		32	A9F94232	455.80
		40	A9F94240	399.90
		50	A9F94250	723.00
		63	A9F94263	572.80

Circuit Breakers

iC60L (curve C) (cont.)



IEC/EN 60947-2 (20kA)
IEC/EN 60898-1 (15kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)		12 to 133V	220 to 240V	380 to 415V	440V	
Ph/N (1P)		12 to 60V	100 to 133V	220 to 240V	-	
Rating (In)	0.5 to 4A	100kA	100kA	100kA	70kA	100% of Icu
	6 to 25A	70kA	50kA	25kA	20kA	50% of Icu
	32 / 40A	70kA	36kA	20kA	15kA	50% of Icu
	50 / 63A	70kA	30kA	15kA	10kA	50% of Icu

iC60L circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve Reference	Price (RM)
3P	6	1	A9F94301	615.10
		2	A9F94302	647.80
		3	A9F94303	754.70
		4	A9F94304	535.00
		6	A9F94306	540.00
		10	A9F94310	648.80
		16	A9F94316	540.00
		20	A9F94320	637.20
		25	A9F94325	647.90
		32	A9F94332	647.80
		40	A9F94340	629.90
		50	A9F94350	944.10
		63	A9F94363	1,122.40
		4P	8	1
2	A9F94402			1,228.00
3	A9F94403			1,240.00
4	A9F94404			1,228.00
6	A9F94406			972.30
10	A9F94410			927.40
16	A9F94416			829.30
20	A9F94420			927.40
25	A9F94425			972.30
32	A9F94432			972.30
40	A9F94440			972.30
50	A9F94450			1,370.40
63	A9F94463			1,370.40

Circuit Breakers

C120N (curve C, D)



IEC/EN 60947-2 (10kA)
IEC/EN 60898-1 (10kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)	Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 4P)	380 to 415V	
Ph/N (1P)	220 to 240V	75% of Icu
Rating (In) 63 to 125A	10kA	

C120N circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve	
			Reference	Price (RM)	Reference	Price (RM)
1P	3	63	A9N18356	231.00		
		80	A9N18357	198.20		
		100	A9N18358	198.20		
		125	A9N18359	222.10		
2P	6	63	A9N18360	386.50		
		80	A9N18361	392.20		
		100	A9N18362	405.60		
		125	A9N18363	405.60		
3P	9	63	A9N18364	580.00	A9N18386	2,214.00
		80	A9N18365	580.00	A9N18387	1,753.90
		100	A9N18367	597.00	A9N18388	1,753.90
		125	A9N18369	609.00	A9N18389	1,753.90
4P	12	63	A9N18371	846.70		
		80	A9N18372	846.90		
		100	A9N18374	861.10	A9N18392	2,615.80
		125	A9N18376	888.70		

Circuit Breakers

C120H (curve C, D)



IEC/EN 60947-2 (15kA)
IEC/EN 60898-1 (15kA)

Alternating current (AC) 50/60Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)	Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 4P)	380 to 415V	50% of Icu
Ph/N (1P)	220 to 240V	
Rating (In) 63 to 125A	15kA	

C120H circuit breakers

Pole	Width in 9mm mod	Rating (A)	C curve		D curve	
			Reference	Price (RM)	Reference	Price (RM)
1P	3	63	A9N18445	347.20		
		80	A9N18446	443.20		
		100	A9N18447	460.40		
2P	6	80	A9N18457	896.70		
		100	A9N18458	939.90		
		125	A9N18459	1,354.90	A9N18503	1197.70
3P	9	63	A9N18467	1,405.60		
		80	A9N18468	1,474.50	A9N18512	1,543.20
		100	A9N18469	1,545.90	A9N18513	1,947.80
		125	A9N18470	1,772.80	A9N18514	2,091.40
4P	12	80	A9N18479	2,141.30		
		100	A9N18480	2,238.50	A9N18524	3,248.40
		125	A9N18481	2,563.90	A9N18525	4,196.10

Residual Current Devices

iID Residual Current Circuit Breakers (AC type)

IEC/EN 61008-1



The iID residual current circuit breakers provide:

- protection of persons against electric shock by direct contact ($\leq 30\text{mA}$)
- protection of persons against electric shock by indirect contact ($\geq 100\text{mA}$)
- protection of installations against the risk of fire (300mA or 500mA)

Characteristics

Voltage rating (U_e)	2P	230 - 240V
	4P	400 - 415V
Operating frequency	50 / 60Hz	

Type	AC	2-pole		4-pole	
	Width in 9mm mod	4		8	
Rating (A)	Sensitivity (mA)	Reference	Price (RM)	Reference	Price (RM)
25	10	A9R10225	519.50	-	
	30	A9R71225	645.00	A9R71425	734.60
	300	A9R74225	588.50	A9R74425	925.00
40	30	A9R71240	305.20	A9R71440	562.90
	100	A9R12240	228.20	A9R12440	415.90
	300	A9R74240	381.50	A9R74440	321.40
63	30	A9R71263	448.30	A9R71463	852.40
	100	A9R12263	287.90	A9R12463	572.70
	300	A9R74263	462.00	A9R74463	352.10
80	30	A9R11280	638.30	A9R11480	1,086.00
	100	A9R12280	570.50	A9R12480	735.20
	300	A9R14280	624.70	A9R14480	761.30
100	30	A9R11291	646.40	A9R11491	830.20
	100	A9R12291	666.50	A9R12491	915.70
	300	A9R14291	811.70	A9R14491	989.10

Residual Current Devices

Residual current devices
iDPN N Vigi (AC type)



IEC/EN 61009

The iDPN N Vigi residual current device provide complete protection for final circuits (against overcurrents and insulation faults):

- protection for users against electric shocks by direct contacts ($\leq 30\text{mA}$)
- protection for users against electric shocks by indirect contacts (300mA)
- protection of the installations against the risk of fire (300mA)

Characteristics

Voltage rating (Ue)	230V AC
Operating frequency	50Hz

Type	AC	Curve C	
	1P+N	4	
Rating (A)	Width in 9mm mod	Reference	Price (RM)
6	Sensitivity (mA)		
	30	A9D31606	656.20
10	300	A9D41606	558.00
	30	A9D31610	630.40
16	300	A9D41610	547.50
	30	A9D31616	618.50
20	300	A9D41616	526.00
	30	A9D31620	630.40
25	300	A9D41620	541.00
	30	A9D31625	668.40
32	300	A9D41625	558.00
	30	A9D31632	689.90
40	300	A9D41632	558.00
	30	A9D31640	667.30
	300	A9D41640	541.00

Residual Current Devices

Vigi iC60 add-on residual current devices (AC type)



IEC/EN 61009-1

Combined with iC60 circuit breakers, the Vigi iC60 provide:

- protection of persons against electric shock by direct contact ($\leq 30\text{mA}$)
- protection of persons against electric shock by indirect contact ($\geq 100\text{mA}$)
- protection of installations against the risk of fire (300mA or 500mA)

Characteristics

Voltage rating (U_e)	230 - 240V, 400 - 415V
Operating frequency	50 / 60Hz

Type		AC		2-pole		3-pole		4-pole			
Rating (A)	Sensitivity (mA)	Width in 9mm mod	Reference	Price (RM)	Width in 9mm mod	Reference	Price (RM)	Reference	Price (RM)		
25	10	3	A9V10225	1,168.60	6	A9V41325	1,171.00	A9V41425	981.00		
	30		A9V41225	687.00						A9V12425	948.80
	100		A9V12225	744.90						A9V44425	807.60
	300		A9V44225	745.70						A9V44325	972.00
40	30	4	A9V41240	1,261.90	7	A9V41340	1,291.40	A9V41440	1,552.60		
	300		A9V44240	932.90		A9V44340	872.40	A9V44440	1,039.00		
63	30	4	A9V41263	903.60	7	A9V41363	1,958.00	A9V41463	1,704.30		
	100		A9V12263	972.00					A9V12463	1,267.70	
	300		A9V44263	1,179.10					A9V44363	1,566.40	A9V44463

Overvoltage Protection

Type 2 or 3 LV withdrawable surge arresters

iPRD / iPFK Surge arresters



Pole	Type	Un	Uc	Imax	Remote	Up	Reference	Price (RM)
		(V)	(V)	8/20 wave (kA)				
Type 2, iPRD (Withdrawable)								
1P	PRD 65r	230	340	65	Yes	1.5	A9L65101	744.10
	PRD 40r	230	350	40	Yes	1.6	A9L40101	446.00
	PRD 40	230	340	40	No	1.3	A9L40100	376.80
	PRD 20	230	340	20	No	1	A9L20100	360.50
	PRD 8	230	340	8	No	0.9	A9L08100	340.20
1P + N	PRD 65r	230	350	65	Yes	1.5	A9L65501	1,185.90
	PRD 40r	230	350	40	Yes	1.6	A9L40501	890.20
	PRD 40	230	350	40	No	1.6	A9L40500	706.70
	PRD 20r	230	340	20	Yes	1.2	A9L20501	897.70
	PRD 20	230	350	20	No	1.2	A9L20500	698.60
	PRD 8r	230	350	8	Yes	1.2	A9L08501	869.20
	PRD 8	230	350	8	No	1.2	A9L08500	676.10
3P + N	PRD 65r	230	350	65	Yes	1.5	A9L65601	1,995.70
	PRD 40r	230	350	40	Yes	1.6	A9L40601	1,541.90
	PRD 40	230	350	40	No	1.6	A9L40600	1,210.60
	PRD 20r	230	350	20	Yes	1.2	A9L20601	1,522.30
	PRD 20	230	350	20	No	1.2	A9L20600	1,253.80
	PRD 8r	230	340	8	Yes	1.2	A9L08601	1,461.60
	PRD 8	230	350	8	No	1.2	A9L08600	1,492.50
Type 2, iPFK (Monoblock)								
1P	PF 40	230	340	40	No	1.4	A9L15686	408.00
	PF 20	230	340	20	No	1.1	A9L15691	401.10
1P+N	PF 40	230	340	40	No	1.4	A9L15687	606.70
	PF 20	230	340	20	No	1.2	A9L15692	629.00
3P+N	PF 65	230	340	65	No	1.4	A9L15586	1,745.70
	PF 40	230	340	40	No	1.4	A9L15688	1,090.00
	PF 20	230	340	20	No	1.2	A9L15693	1,122.10
Cartridges for iPRD								
	iPRD 65-350	230	350	65			A9L65102	484.20
	iPRD 40-350	230	350	40			A9L40102	372.30
	iPRD 20-350	230	350	20			A9L20102	423.60
	iPRD 8-350	230	350	8			A9L08102	352.90
	iPRD Neutral	230	350				A9L00002	440.20

Un: rated voltage

Uc: maximum continuous operating voltage

Up: voltage protection level

Automatic Reclosers

ARA for iC60 circuit breakers



ARA iC60



ARA iID

The ARA reclosing auxiliary can:

- Perform automatic reclosing of the associated protection device, after tripping.
- Increase the availability of installations without supervision, isolated, hard of access and demanding very great availability (mobile telephony systems, motorways, pumping stations, airports, railways, meteorological stations, service stations, automatic teller machines, public lightings, tunnels, etc.), by restoring them to operation without intervention by personnel in the event of a transient fault (atmospheric disturbances, industrial overvoltages, etc.)
- For the ARA iC60, the operator can choose predefined reclosing program which allows the safety and availability of facilities to be reconciled taking into account the facility's environment.
- The circuit is placed in safety configuration by the padlocking device.

ARA iC60

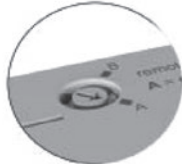
	Width in 9mm mod	Number of programs	Voltage	Reference	Price (RM)
For circuit breakers					
1P, 1P+N, 2P	7	4	230V AC, 50Hz	A9C70132	2,313.80
3P, 4P	7	4	230V AC, 50Hz	A9C70134	2,551.70

ARA iID

	Width in 9mm mod	Number of programs	Voltage	Reference	Price (RM)
For residual current circuit breakers					
2P	7	1	230V AC, 50Hz	A9C70342	2,563.10
4P	7	1	230V AC, 50Hz	A9C70344	2,829.20

Remote Control Auxiliary

RCA for iC60 circuit breakers



Without Ti24 interface



With Ti24 interface

The RCA remote control system allows:

- Remote electrical control (opening and closing) of circuit breakers with or without Vigi add-on RCD, with or without auxiliary.
- Circuit breakers resetting after tripping, in accordance with safety principles and the regulations in force.
- Local control by operating handle.
- Circuit safety protection by padlocking.

2 choices of operation after tripping:

- A: Enabling of remote circuit breaker resetting;
- B: Inhibition of remote resetting.

The version with Ti24 interface allows:

- Direct interfacing of remote control with a programmable logic controller (PLC), a supervision system and any other communication device, having inputs/outputs in 24V DC (control, OF and SD indications.)
- Remote indication by "OF" potential-free contact.
- Provision of 2 operating modes, "1 and 3".

The iMDU auxiliary allows RCA control in 24/48V AC/DC.

RCA remote control

For circuit breakers	Width in 9mm mod		Supply Voltage	Reference	Price (RM)
1P, 1P+N, 2P	7	Without Ti24 interface	230V AC, 50Hz	A9C70112	2,342.60
		With Ti24 interface	230V AC, 50Hz	A9C70122	2,568.40
3P, 4P	7	Without Ti24 interface	230V AC, 50Hz	A9C70114	2,522.60
		With Ti24 interface	230V AC, 50Hz	A9C70124	3,421.40

Reflex

iC60N, iC60H (curve C) and
iMDU electrical auxiliary



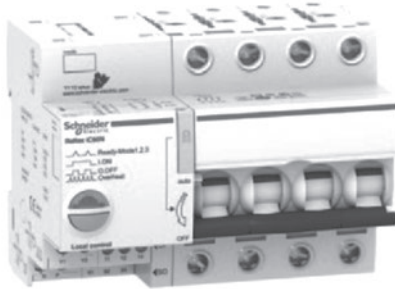
IEC/EN 60947-2

Alternating current (AC) 50Hz

Ultimate breaking capacity (Icu) as per IEC/EN 60947-2				Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 4P)	Voltage (Ue)			
		220 to 240V	380 to 415V	
Reflex iC60N				
Rating (In)	10 to 40A	20kA	10kA	75% of Icu
	63A	20kA	10kA	50% of Icu

Reflex iC60N

Pole	Width in 9mm mod	Rating (A)	C curve Reference	Price (RM)
<i>With Ti24 interface</i>				
2P	9	10	A9C62210	2,101.50
		16	A9C62216	2,101.50
		25	A9C62225	2,101.50
		40	A9C62240	2,101.50
		63	A9C62263	2,088.90
3P	11	10	A9C62310	2,477.00
		16	A9C62316	2,477.00
		25	A9C62325	2,477.00
		40	A9C62340	2,477.00
		63	A9C62363	2,576.00
4P	13	10	A9C62410	2,851.50
		16	A9C62416	2,851.50
		25	A9C62425	2,851.50
		40	A9C62440	2,851.50
		63	A9C62463	2,965.70

ReflexiC60N, iC60H (curve C) and
iMDU electrical auxiliary (cont.)**IEC/EN 60947-2****Alternating current (AC) 50Hz**

Ultimate breaking capacity (Icu) as per IEC/EN 60947-2			Service breaking capacity (Ics)
Ph/Ph (2P, 3P, 4P)	Voltage (Ue)		
	220 to 240V	380 to 415V	
Reflex iC60H			
Rating (In)	10 to 40A	30kA	15kA
			50% of Icu

Reflex iC60H

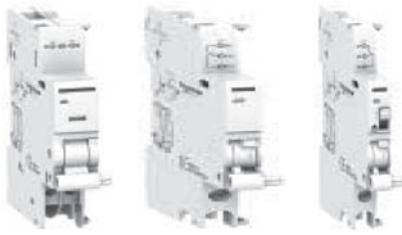
Pole	Width in 9mm mod	Rating (A)	C curve	
			Reference	Price (RM)
<i>With Ti24 interface</i>				
2P	9	10	A9C65210	2,101.50
		16	A9C65216	2,101.50
		25	A9C65225	2,101.50
		40	A9C65240	2,088.90
3P	11	10	A9C65310	2,462.00
		16	A9C65316	2,462.00
		25	A9C65325	2,477.00
		40	A9C65340	2,462.00
4P	13	10	A9C65410	2,834.40
		16	A9C65416	2,851.50
		25	A9C65425	2,851.50
		40	A9C65440	2,882.50

Electrical auxiliary for Reflex iC60

Type	Width in 9mm mod	Control voltage	Reference	Price (RM)
iMDU	1	24 / 48V AC/DC	A9C18195	1,115.60

Accessories

Electrical auxiliaries
for iC60, iID, RCA and ARA



IEC/EN 60947-1

■ Tripping auxiliaries

IEC/EN 60947-5-1

■ Indication auxiliaries

IEC/EN 60947-7-1

■ Multiclip 80A splitter block

Tripping		Rated Voltage (Ue)		Operating frequency (Hz)	Reference	Price (RM)	
		V AC	V DC				
Undervoltage release	Instantaneous	220...240	-	50/60	A9A26960	306.30	
	iMN	115	-	400	A9A26959	381.60	
	Delayed iMNs	220...240	-	50/60	A9A26963	373.80	
	Independent of the supply voltage	220...240	-	50/60	A9A26969	588.70	
	iMNx	380...415	-	50/60	A9A26971	588.70	
Overvoltage release	iMSU	230	-	50/60	A9A26500	190.86	
Shunt release	iMX	100...415	110...130	50/60	A9A26476	230.00	
		12...24	12...24	50/60	A9A26478	245.70	
	With Open/Close auxiliary contact	100...415	110...130	50/60	A9A26946	230.00	
		iMX+OF	48	48	50/60	A9A26947	301.60
		12...24	12...24	50/60	A9A26948	245.70	
Indication							
Open/close auxiliary contact							
	iOF	240...415	24...130	50/60	A9A26924	144.10	
Fault indicating contact							
	iSD	240...415	24...130	50/60	A9A26927	172.00	
Double open/close or fault indicating contact							
	iOF/SD+OF	240...415	24...130	50/60	A9A26929	224.30	



Multiclip 80A splitter block						
Rated current at 40°C (In)	Width in 9mm mod	Operated Voltage (Ue)	Operating Frequency (Hz)	Rated insulation Voltage (Ui)	Reference	Price (RM)
80A	48	440V AC	50/60	500V AC	04000	671.10

Accessories

for iC60, iID,
Reflex iC60, RCA and ARA



Mounting				
Type		Set of	Reference	Price (RM)
Rotary handle	black handle	1	A9A27005	1,059.10
	red handle	1	A9A27006	1,000.00
	no handle	1	A9A27008	663.20
Plug-in base	1 per pole	1	A9A27003	409.70
Padlocking device		10	A9A26970	212.30

Suitability	iC60	iC60 + Vigi iC60	iID	Reflex iC60 or RCA + iC60 or ARA + iC60	ARA + iID
Rotary handle	■ 2P, 3P, 4P	■ 2P, 3P, 4P	■	-	-
Plug-in base	■	-	■ ≤ 63A	-	-
Padlocking device	■	■	■	■	■

Security				
Type		Set of	Reference	Price (RM)
Screw shield		12 x 1-pole	A9A26982	515.70
		20 x 4-pole (splittable)	A9A26981	442.20
Terminal shield		2 x 1-pole	A9A26975	111.90
		2 x 2-pole	A9A26976	111.90
Inter-pole barrier		10	A9A27001	273.30
Spacer		5	A9A27062	133.40

Suitability	iC60	Vigi iC60	iID	Reflex iC60 or RCA + iC60 or ARA + iC60	ARA + iID
Screw shield 12 x 1-pole	-	■	-	-	-
20 x 4-pole (splittable)	■	-	■	■	■
Terminal shield 2 x 1-pole	■	-	-	■	-
2 x 2-pole	■	-	■	■	■
Inter-pole barrier	■	-	■	■	■
Spacer	■	■	■	■	■

Remote Control

iCT contactors
without manually-operated



iCT 4P

EN 61095, IEC 1095

Characteristics

Voltage rating (Ue)	1P, 2P	250V AC
	3P, 4P	400V AC

Pole	Width in 9mm mod	Rating (A)		Control voltage (V AC) (50Hz)	Contact	Reference	Price (RM)				
		AC7a	AC7b								
1P	2	25	8.5	230...240	1NO	A9C20731	309.10				
2P	2	25	8.5	230...240	2NO	A9C20732	379.00				
					2NC	A9C20736	386.10				
	4	40	15	220...240	2NO	A9C20842	564.30				
					63	20	220...240	2NO	A9C20862	1,019.70	
6	100	-	220...240	2NO	A9C20882	2,522.20					
3P	4	25	8.5	220...240	3NO	A9C20833	477.80				
					6	40	15	220...240	3NO	A9C20843	761.70
					63	20	220...240	3NO	A9C20863	1,343.30	
4P	4	25	8.5	220...240	4NC	A9C20837	606.30				
					2NO+2NC	A9C20838	591.60				
	6	40	15	220...240	4NO	A9C20844	1,014.30				
					4NC	A9C20847	1,108.40				
	6	63	20	220...240	4NO	A9C20864	1,467.80				
					4NC	A9C20867	1,801.60				
					2NO+2NC	A9C20868	1,427.50				
					3NO+1NC	A9C20869	1,801.60				
12	100	-	220...240	4NO	A9C20884	3,602.00					

Remote Control

iTL impulse relays

iTLc, iTLs with built-in auxiliary function



IEC/EN 60669-2-2

iTLs: IEC/EN 60947-5-1

Characteristics

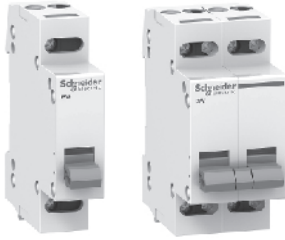
Voltage rating (Ue)	1P, 2P	250V AC
	3P, 4P	400V AC

iTL impulse relays	Pole	Control Voltage (Uc)		Reference	Price (RM)
		(V AC)	(V DC)		
iTL 16A	1P 1 NO	230...240	110	A9C30811	166.00
	2P 2 NO	230...240	110	A9C30812	260.50
	3P 1 NO + 1 NO/NC + 1 NO	230...240	110	A9C30811 + A9C32816	434.00
	4P 4 NO	230...240	110	A9C30814	497.50
iTLI impulse relays					
iTLI 16A	1P 1 NO + 1 NC	230...240	110	A9C30815	266.10
iTLc impulse relay with centralised control					
iTLc 16A	1P 1 NO	230...240	-	A9C33811	320.00
iTLs impulse relay with remote indication*					
iTLs 16A	1P 1 NO	230...240	110	A9C32811	346.30

(*) Short circuit protection devices for indication contacts: 6A gG fuse.

Switch Disconnectors

iSW switches



iSW control switches (20, 32A)

IEC/EN 60669-2-4, iSW switch without indicator light

iSW switch-disconnectors (40 to 125A)

IEC 60947-3

OF iSW auxiliary

Characteristics

Operating frequency	50 / 60Hz
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20, 32A iSW control switches

Type	Width in 9mm mod	Rating	Voltage (Ue)	Reference	Price (RM)
1P	2	20A	250V AC	A9S60120	56.00
		32A	250V AC	A9S60132	84.00
2P	2	20A	415V AC	A9S60220	81.80
		32A	415V AC	A9S60232	86.50
3P	4	20A	415V AC	A9S60320	125.30
		32A	415V AC	A9S60332	130.30
4P	4	20A	415V AC	A9S60420	191.20
		32A	415V AC	A9S60432	204.00

Switch Disconnectors

iSW switches (cont.)



iSW control switches (20, 32A)

IEC/EN 60669-2-4, iSW switch without indicator light

iSW switch-disconnectors (40 to 125A)

IEC 60947-3

OF iSW auxiliary

Characteristics

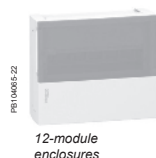
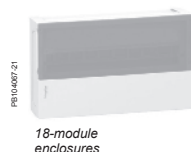
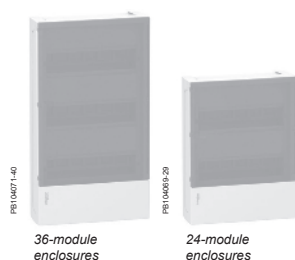
Operating frequency	50 / 60Hz
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40 to 125A iSW switch-disconnectors

Type	Width in 9mm mod	Rating	Voltage (Ue)	Reference	Price (RM)
1P	2	40A	250V AC	A9S65140	88.00
		63A	250V AC	A9S65163	93.30
		100A	250V AC	A9S65191	171.60
2P	4	40A	415V AC	A9S65240	143.50
		63A	415V AC	A9S65263	149.80
		100A	415V AC	A9S65291	245.00
		125A	415V AC	A9S65292	370.00
3P	6	40A	415V AC	A9S65340	214.90
		63A	415V AC	A9S65363	222.20
		100A	415V AC	A9S65391	388.80
		125A	415V AC	A9S65392	587.30
4P	8	40A	415V AC	A9S65440	274.00
		63A	415V AC	A9S65463	281.00
		100A	415V AC	A9S65491	474.00
		125A	415V AC	A9S65492	704.20

Auxiliary

Type	Width in 9mm mod	Rating	Voltage (Ue)	Reference	Price (RM)
OF iSW	2	3A	415V AC	A9A15096	131.10



Technical data

Enclosures		
Compliance with standards	IEC 60439-3, IEC 60529, IEC 60695-2-11, EN 50102, IEC 60670-24	
Rated current (In)	4-module enclosures	50A
	6 to 36-module enclosures	63A
Rated insulation voltage (Ui)	< 400V	
Insulation	Class 2 (as per IEC 60439-3)	
Degree of protection	To IEC 60529	IP 40
	Against mechanical impacts	IK 07
Materials	Self-extinguishing technoplastic ⁽¹⁾ : resistant to fire and abnormal heat 650°C to IEC 60695-2-11	

(1) Technoplastic material specially developed by Schneider Electric.

Components delivered with each enclosures

Type	
Insulating plug (pack of 4)	To be placed over the back fixing screws to obtain class 2 insulation
Identification strip for each row	To be glued onto the front panel
Two terminal block supports	
Two earth/neutral terminal blocks	Supplied with the 4 or 6-module enclosures 2 x (1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□]) Supplied with the 8 or 12-module enclosures 2 x (1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□]) Supplied with the 18 or 24-module enclosures 2 x (2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□]) Supplied with the 36-module enclosures 2 x (2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□])
Blanking plates (packs of 10)	Clipped on the front face

Surface Mounting Enclosures

- With earth + neutral terminal block
- With smoked transparent door

White enclosures Number of rows	Number of modules per row	Capacity in 18mm modules	Rated current In (A)	Reference	Price (RM)
1	4	4	50	MIP12104T	135.30
				MIP12104	118.00
	6	6	63	MIP12106T	151.00
				MIP12106	129.50
	8	8	63	MIP12108T	166.50
				MIP12108	160.40
2	12	12	63	MIP12112T	171.00
				MIP12112	186.20
	18	18	63	MIP12118T	226.80
3				MIP12118	212.80
	12	24	63	MIP12212T	366.40
3				MIP12212	240.10
	12	36	63	MIP12312T	476.80
				MIP12312	297.40



36-module enclosures



24-module enclosures



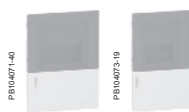
18-module enclosures



12-module enclosures



8-module enclosures



6-module enclosures



4-module enclosures

Technical data

Enclosures		
Compliance with standards		IEC 60439-3, IEC 60529, IEC 60695-2-11, EN 50102, IEC 60670-24
Rated current (In)	4-module enclosures	50A
	6 to 36-module enclosures	63A
Rated insulation voltage (Ui)		< 400V
Insulation		Class 2 (to IEC 60439-3)
Degree of protection	To IEC 60529	IP 40
	Against mechanical impacts	IK 07
Materials		Self-extinguishing technoplastic ⁽¹⁾ : resistant to fire and abnormal heat 650°C to IEC 60695-2-11

(1) Technoplastic material specially developed by Schneider Electric.

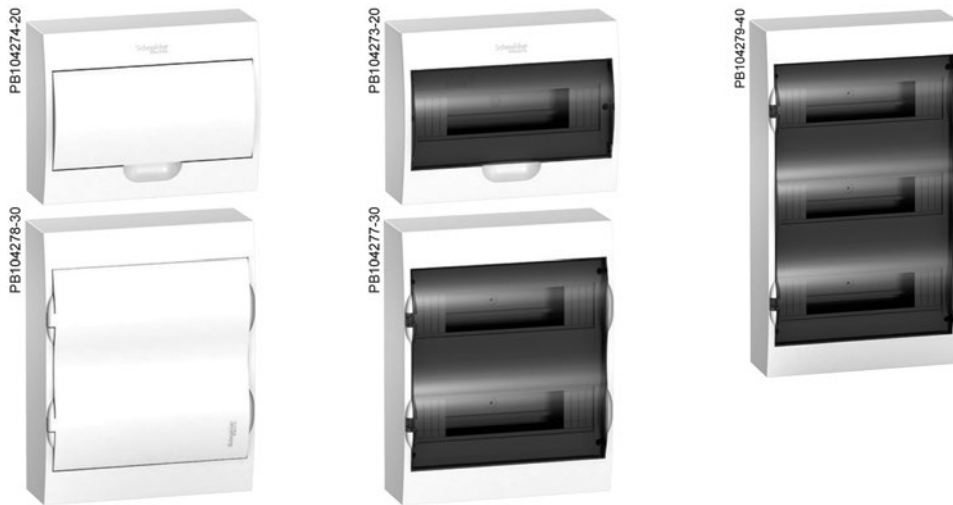
Components delivered with each enclosures

Type		
Identification strip for each row	To be glued onto the front panel	
Two terminal block supports		
Two earth/neutral terminal blocks	Supplied with the 4 or 6-module enclosures	2 x (1 x 16 [□] + 2 x 10 [□] + 1 x 6 [□])
	Supplied with the 8 or 12-module enclosures	2 x (1 x 16 [□] + 4 x 10 [□] + 3 x 6 [□])
	Supplied with the 18 or 24-module enclosures	2 x (2 x 16 [□] + 8 x 10 [□] + 6 x 6 [□])
	Supplied with the 36-module enclosures	2 x (2 x 16 [□] + 9 x 10 [□] + 9 x 6 [□])
Blanking plates (packs of 10)	Clipped on the front face	

Flush Mounting Enclosures

- With earth + neutral terminal block
- With smoked transparent door

White enclosures	Number of modules per row	Capacity in 18mm modules	Rated current In (A)	Reference	Price (RM)		
Number of rows	1	4	4	50	MIP22104T	200.80	
					MIP22104	181.50	
	2	6	6	63	MIP22106T	210.50	
					MIP22106	191.20	
		3	8	8	63	MIP22108T	226.10
						MIP22108	204.70
			12	12	63	MIP22112T	251.00
						MIP22112	226.10
	18	18	18	63	MIP22118T	269.70	
					MIP22118	273.20	
3	12	24	63	MIP22212T	291.10		
				MIP22212	239.90		
				MIP22312T	544.30		
				MIP22312	397.90		



Characteristics

Main characteristics

Compliance with standards		IEC 60670-1-24, IEC 61439-3
Rated current (In)	8,12,18 and 24 module enclosures	63A
	36 module enclosures	80A
Rated operational voltage (Ue)		400V
Rated insulation voltage (Ui)		500V
Insulation		Class 2

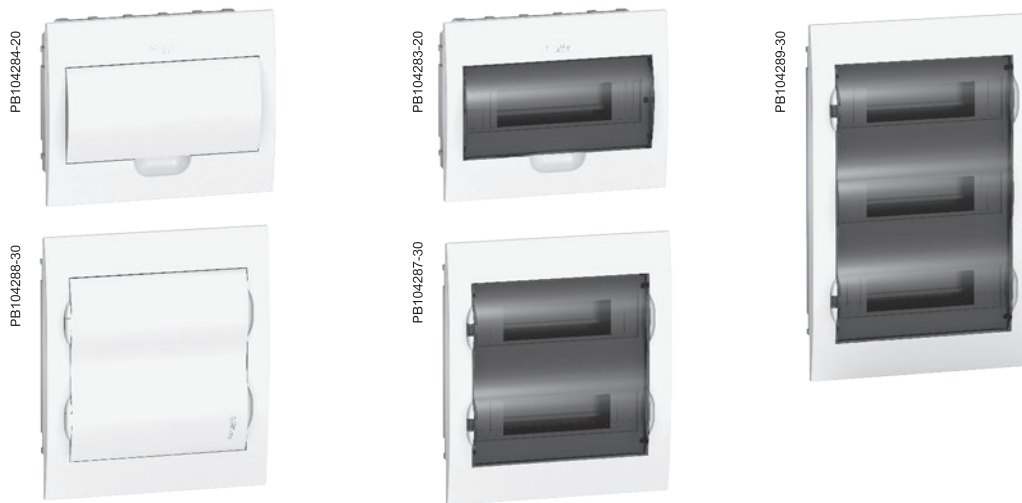
Additional characteristics

Degree of protection	To IEC 60529	IP40 closed door IP30 open door
	To IEC 62262	Against mechanical impacts IK07
Degree of pollution		2
Operating temperature		-5°C to +60°C
Storage temperature		-15°C to +70°C
Color		White RAL9003
Materials	To IEC 60695-2-10	Self-extinguishing technoplastic, resistant to fire and abnormal heat 650°C/30min

Surface Mounting Enclosures

- With earth + neutral terminal block
- With smoked transparent door

White enclosures Number of rows	Number of modules per row	Capacity in 18mm modules	Rated current In (A)	No of terminal blocks	Reference	Price (RM)
1	8	8	63	2 x 8 holes	EZ9E108P2S	96.00
					EZ9E108S2S	85.00
	12	12	63	2 x 8 holes	EZ9E112P2S	125.00
					EZ9E112S2S	119.00
18	18	63	2 x 17 holes	EZ9E118P2S	188.00	
				EZ9E118S2S	173.00	
2	12	24	63	2 x 17 holes	EZ9E212P2S	214.00
					EZ9E212S2S	200.00
3	12	36	80	2 x 22 holes	EZ9E312P2S	317.00
					EZ9E312S2S	315.00



Characteristics

Main characteristics

Compliance with standards		IEC 60670-1-24, IEC 61439-3
Rated current (In)	8,12,18 and 24 module enclosures	63A
	36 module enclosures	80A
Rated operational voltage (Ue)		400V
Rated insulation voltage (Ui)		500V
Insulation		Class 2

Additional characteristics

Degree of protection	To IEC 60529	IP40 closed door IP30 open door
	To IEC 62262	Against mechanical impacts IK07
Degree of pollution		2
Operating temperature		-5°C to +60°C
Storage temperature		-15°C to +70°C
Color		White RAL9003
Materials	To IEC 60695-2-10	Self-extinguishing technoplastic, resistant to fire and abnormal heat 650°C/30min

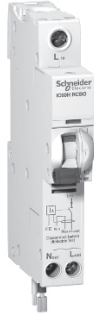
Flush Mounting Enclosures

- With earth + neutral terminal block
- With smoked transparent door

White enclosures Number of rows	Number of modules per row	Capacity in 18mm modules	Rated current In (A)	No of terminal blocks	Reference	Price (RM)
1	8	8	63	2 x 8 holes	EZ9E108P2F	95.60
					EZ9E108S2F	85.00
	12	12	63	2 x 8 holes	EZ9E112P2F	129.00
					EZ9E112S2F	119.00
					EZ9E118P2F	193.00
2	12	24	63	2 x 17 holes	EZ9E118S2F	178.00
					EZ9E212P2F	214.00
3	12	36	80	2 x 22 holes	EZ9E212S2F	206.00
					EZ9E312P2F	327.00
					EZ9E312S2F	324.00

RCBOs

IC60N & IC60H RCBOs



IEC 61009-1, IEC 61009-2-2, AS/NZS 61009.1

- The single-phase IC60N RCBO's self-contained current device carries out complete protection of final circuits:
 - protection against short-circuits and cable overloads,
 - protection against electricution by direct contact.
- The neutral is not interrupted when the device is tripped. Hence IC60N RCBO can be used on most circuits, except for ones operating under TT or IT earthing system.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC 61009-1

Ph/N	Voltage (Ue)
Ph/N	240 v
Rating 6 to 45A	6000A

Accessory

Padlocking device

- Used to lock the toggle in the "open" position by 3mm diameter padlock (not supplied)

iC60N RCBO (6000)

Type	A	Curve C	Price (RM)
Pole	1P+N	Sensitivity	
Width in 9mm mod Rating (A)		30mA	
1P+N	2	6	A9D61806 613.80
		10	A9D61810 613.80
		16	A9D61816 602.60
		20	A9D61820 597.00
		25	A9D61825 596.90
		32	A9D61832 602.60
		40	A9D61840 625.20
		45	A9D61845 784.90



IEC 61009-1, IEC 61009-2-2, BS EN 61009-1, AS/NZS 61009.1

- The single-phase IC60N RCBO's self-contained current device carries out complete protection of final circuits:
 - protection against short-circuits and cable overloads,
 - protection against electricution by direct contact. (10, 30 mA sensitivities),
 - protection of persons against electric shock by direct contact. (100 mA sensitivities),
 - protection of equipment against fires set by leakage currents. (100 mA sensitivities)
- The neutral is not interrupted when the device is tripped. Hence IC60H RCBO can be used on most circuits, except for ones operating under TT or IT earthing system.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC 61009-1

Ph/N	Voltage (Ue)	
Ph/N	110 v	240 v
Rating 6 to 45A	10000A	10000A

Accessory

Padlocking device

- Used to lock the toggle in the "open" position by 3mm diameter padlock (not supplied)

iC60H RCBO (10000)

Type	A	Curve C	Price (RM)	Curve C	Price (RM)	Curve C	Price (RM)
Pole	1P+N	Sensitivity		Sensitivity		Sensitivity	
Width in 9mm mod Rating (A)		10mA		30mA		100mA	
1P+N	2	6	A9D10806 642.90	A9D11806 642.90	A9D12806 619.40		
		10	A9D10810 625.20	A9D11810 619.40	A9D12810 636.90		
		16	A9D10816 642.90	A9D11816 636.90	A9D12816 619.40		
		20	A9D10820 625.20	A9D11820 625.20	A9D12820 636.90		
		25	A9D10825 642.90	A9D11825 619.40	A9D12825 729.00		
		32	A9D10832 636.90	A9D11832 625.20	A9D12832 625.20		
		40	A9D10840 642.90	A9D11840 625.20	A9D12840 642.90		
		45	A9D10845 784.90	A9D11845 625.20	A9D12845 784.90		

DC Circuit Breakers

C60H-DC

C Curve



PB107193-3k.eps



CE

PB107194-3k.eps



IEC/EN 60947-2

The C60H-DC supplementary protectors are used in direct current circuits (Industrial control and automations, transport, renewable energy...). They combine the following functions of circuit protection against short-circuit and overload currents, control and isolation.

Direct current (DC)

Type	Breaking capacity (Icu) according to IEC/EN 60947-2					Rated service breaking capacity (Ics)	
	110V	220V	250V	440V	500V		
1P							
Rating (In)	0.5 to 63A	20kA	10kA	6kA	-	75% Icu	
2P (in series)							
	0.5 to 63A	-	20kA	20kA	10kA	6kA	75% Icu

C60H-DC

Type	1P		2P	
Rating A	Curve C	Price (RM)	Curve C	Price (RM)
	Reference		Reference	
0.5	A9N61500	200.30	A9N61520	308.90
1	A9N61501	205.90	A9N61521	301.30
2	A9N61502	105.50	A9N61522	161.00
3	A9N61503	105.50	A9N61523	251.80
4	A9N61504	105.50	A9N61524	162.50
5	A9N61505	105.50	A9N61525	162.50
6	A9N61506	105.50	A9N61526	152.70
10	A9N61508	105.50	A9N61528	151.20
13	A9N61509	105.50	A9N61529	279.60
15	A9N61510	102.60	A9N61530	162.50
16	A9N61511	105.50	A9N61531	158.00
20	A9N61512	105.50	A9N61532	162.50
25	A9N61513	102.60	A9N61533	162.50
30	A9N61514	105.50	A9N61534	162.50
32	A9N61515	119.40	A9N61535	162.50
40	A9N61517	130.00	A9N61537	162.50
50	A9N61518	154.10	A9N61538	268.20
63	A9N61519	155.00	A9N61539	268.20

DC Circuit Breakers

C60PV-DC

PE108403-50



The C60PV-DC is a DC circuit breaker dedicated to multi-string photovoltaic installations.

This circuit breaker is designed to protect the cables located between each string of photovoltaic modules and the photovoltaic inverter against overloads and short circuits (see application diagram).

Combined with a switch (of the C60NA-DC type, for example), the C60PV-DC will be installed in a string PV protection enclosure at the end of each string of photovoltaic modules.

It can be locked (by a padlocking device) in OFF position as a safety measure for removal of the PV inverter.

Since a fault current can flow in the reverse direction to the operating current, the C60PV-DC can detect and protect against any bidirectional current.

To ensure the safety of the installation, it is necessary, depending on the various types of application, to combine the C60PV-DC with:

- a residual current device at the AC end,
- a fault passage detector (insulation monitoring device) at the DC end
- an earth protection circuit breaker at the DC end (see Practical Advice CA908035).

In all cases, fast action on site will be required to clear the fault (protection not ensured in the event of a double fault).

C60PV-DC is not polarity sensitive: (+) and (-) wires can be inversed without any risk.

The C60PV-DC is delivered with three inter-pole barriers to provide increased isolation distance between two adjacent connectors.

IEC / EN 60947-2

CE

Main characteristics	
Operating voltage (Ue)	800V DC
Rated insulation voltage (Ui)	1,000V DC
Breaking capacity (Icu)	1.5kA
Impulse voltage (Uimp)	6kV
Electrical connection	By the bottom for In and Out
Number of poles	2P
Number of modules of 9mm	8

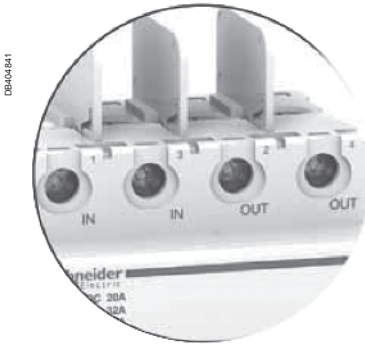
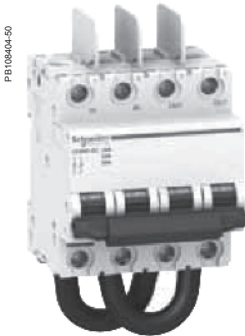
C60PV-DC		
Type	2P	
Rating A	Curve C	Price (RM)
	Reference	
3	A9N61655	595.20
5	A9N61656	471.60
10	A9N61650	597.50
13	A9N61658	597.50
15	A9N61659	597.50
16	A9N61651	469.00
20	A9N61652	473.40
25	A9N61660	482.20

Switch - Disconnecter

C60NA-DC

SW60-DC

C60NA-DC



The C60NA-DC is a direct current switch-disconnector dedicated to disconnection of the string of photovoltaic modules and the PV inverter.

It is designed to isolate the string of photovoltaic modules and the inverter from the rest of the photovoltaic installation for maintenance operations in complete safety.

Combined with a circuit breaker (of the C60PV-DC type, for example), the C60NA-DC will be installed in a string PV protection enclosure close to the strings of photovoltaic modules. It can also be installed near the PV inverter.

It can be locked (by a padlocking device) in OFF position to ensure safety during maintenance operations.

Since a fault current can flow in the reverse direction to the normal operating current, the C60NA-DC can switch a multi-directional current.

C60NA-DC is not polarity sensitive: (+) and (-) wires can be inverted without any risk.

The C60NA-DC is delivered with three inter-pole barrier to provide increased isolation distance between two adjacent connectors.

IEC / EN 60947-3

CE

Main characteristics

Operating voltage (Ue)	20A: 1000V CC
	32A: 800V CC
	50A: 700V CC
Rated insulation voltage (Ui)	1,000V DC
Rated operational current (Ie)	50A
Impulse voltage (Uimp)	6kV
Permissible rated short-time withstand current (Icw)	600A
Rated short-circuit closing current (Icm)	1kA
Electrical connection	By the top for In and Out
Number of poles	2P
Number of modules of 9mm	8

C60NA-DC

2-pole

Reference

Price (RM)

A9N61690

556.60

The SW60-DC is a direct current switch-disconnector dedicated to disconnection of the string of photovoltaic modules and the PV inverter.

It is designed to isolate the inverter from the rest of the photovoltaic installation for maintenance operations in complete safety.

Combined with a circuit breaker (of the C60PV-DC type, for example) and a switch (of the C60NA-DC type, for example), the SW60-DC will be installed in the string PV protection enclosure close to the PV inverter (see application diagram).

It can be locked (by a padlocking device) in OFF position to ensure safety when removing the PV inverter.

SW60-DC is polarity sensitive: (+) and (-) has to be respected for connection.

The SW60-DC is delivered with three inter-pole barrier to provide increased isolation distance between two adjacent connectors.

IEC / EN 60947-3

CE

General technical data

Operating voltage (Ue)	1000V DC
Rated insulation voltage (Ui)	1000V DC
Rated operational current (Ie)	50A
Impulse voltage (Uimp)	6kV
Permissible rated short-time withstand current (Icw)	600A
Rated short-circuit closing current (Icm)	1kA
Electrical connection	By the top for In and Out
Number of poles	2P
Number of modules of 9mm	8

SW60-DC

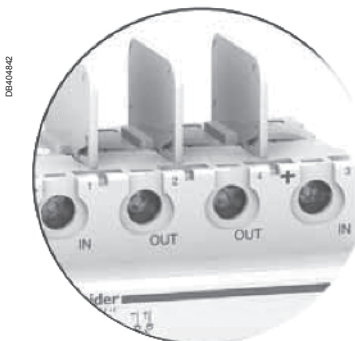
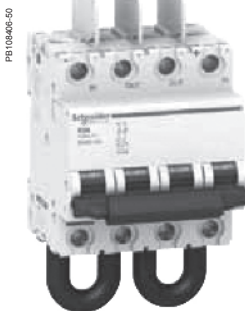
2-pole

Reference

Price (RM)

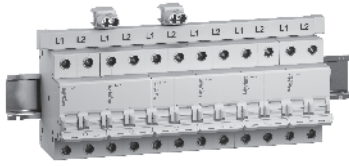
A9N61699

625.20



Linergy FH

Horizontal comb busbar for 18 mm pitch for Acti 9



IEC 60947-7-1, IEC 61439-1

Description

Comb busbars make it easier to install Schneider Electric products:

- can be sawn and cut in a single pass, using busbar chocks
- supplied with 2 side plates, IP20
- the end-pieces are compulsory during cutting
- cutting markings on the insulating material
- the teeth left on standby can be isolated by tooth cover end-pieces.

Linergy FH

Set of modules of 18mm	Description	Reference	Price (RM)
6	COMB BUSBAR 1P 100A 6MOD.	A9XPH106	123.90
12	COMB BUSBAR 1P 100A 12MOD.	A9XPH112	73.70
	COMB BUSBAR 2P 100A 12MOD.	A9XPH212	100.90
	COMB BUSBAR 3P 100A 12MOD.	A9XPH312	112.90
	COMB BUSBAR 4P 100A 12MOD.	A9XPH412	151.80
	COMB BUSBAR 4P REPART. 100A 12MOD.	A9XPH512	183.20
18	COMB BUSBAR 4P REPART. 100A 18MOD.	A9XPH518	276.80
24	COMB BUSBAR 1P 100A 24MOD.	A9XPH124	126.30
	COMB BUSBAR 2P 100A 24MOD.	A9XPH224	188.40
	COMB BUSBAR 3P 100A 24MOD.	A9XPH324	251.10
	COMB BUSBAR 4P 100A 24MOD.	A9XPH424	305.50
	COMB BUSBAR 4P REPART. 100A 24MOD.	A9XPH524	431.30
57	COMB BUSBAR 1P 100A 57MOD.	A9XPH157	188.40
	COMB BUSBAR 2P 100A 57MOD.	A9XPH257	271.80
	COMB BUSBAR 3P 100A 57MOD.	A9XPH357	370.20
	COMB BUSBAR 4P 100A 57MOD.	A9XPH457	404.00
	COMB BUSBAR 4P REPART. 100A 57MOD.	A9XPH557	511.90
	COMB BUSBAR AUX1P 100A 57MOD.	A9XAH157	326.90
	COMB BUSBAR AUX2P 100A 57MOD.	A9XAH257	467.10
	COMB BUSBAR AUX3P 100A 57MOD.	A9XAH357	370.20
	COMB BUSBAR AUX4P 100A 57MOD.	A9XAH457	490.60
	COMB BUSBAR AUX3P REPART. 100A 57MOD.	A9XAH657	481.73
COMB BUSBAR AUX4P REPART. 100A 57MOD.	A9XAH557	633.30	
SET	SET OF 10 END CAPS 1P A	A9XPE110	63.10
	SET OF 10 END CAPS 2P A	A9XPE210	63.10
	SET OF 10 END CAPS 3P A	A9XPE310	63.10
	SET OF 10 END CAPS 4P A	A9XPE410	62.00
	SET OF 20 TOOTH CAPS	A9XPT920	77.00
	SET OF 4 CONNECTORS	A9XPCM04	101.30
	SET OF 4 CONNECTORS	A9XPCD04	128.50

Universal Enclosures

Metal Enclosures
Spacial CRN

7-1

Schneider Electric

Our Universal Enclosures ranges, solutions for each application



> Spacial Metal enclosures and boxes

From our small boxes to large suitable floor-standing enclosures, with the Spacial range you can find the perfect fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness is required, or for highly corrosive environments.



> Thalassa Insulating enclosures

Working in difficult environments can, without the right protection, expose your installation to chemical or aggressive substances. Developed to efficiently protect it:

our Thalassa offer, from boxes to floor-standing enclosures, made in fibreglass-reinforced polyester, resists in hard conditions and outdoor applications.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install and designed to be used in highly demanding environments.



> ClimaSys Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimaSys offer you can find the right solution, be it Ventilation. Cooling or Heating, including control units for temperature, humidity and much more.

New In 2016, the Thalassa polyester enclosure range has changed color



> What products will be affected?

All our Thalassa range of polyester enclosures.

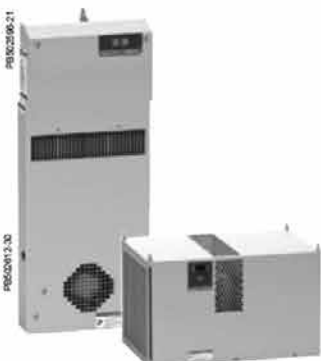
> What happen with the part numbers (references)?

Every product that have changed in colour have also changed the aprt number. It is done just adding a letter "G" at the end on reference. Example:

RAL 7032	RAL 7035
NSYPLM43	NSYPLM43G

> How can I obtain RAL 7032 enclosures?

Consult us.



> ClimaSys Thermal management

Preserving and keeping the right temperature inside your enclosure is vital for maximising the lifetime of your installed devices. With our ClimeSys offer you can find the right solution, be it Ventilation. Cooling or Heating, including control units for Temperature, humidity and much more.

Spacial CRN Steel Wall Mounting Enclosures

Spacial CRN wall-mounting steel enclosures								
Dimension			No. of doors	Reference	Price (RM)	Mounting Plate	Price (RM)	
H	W	D						
250	200	150	1	NSYCRN252150	555.00	NSYMM2520	29.00	
300	250	150	1	NSYCRN325150	358.00	NSYMM3025	37.00	
		200	1	NSYCRN325200	384.00	NSYMM3025	37.00	
	300	150	1	NSYCRN33150	376.00	NSYMM33	41.00	
		200	1	NSYCRN33200	402.00	NSYMM33	41.00	
	400	200	1	NSYCRN34200	463.00	NSYMM43	51.00	
400	300	150	1	NSYCRN43150	419.00	NSYMM43	51.00	
		200	1	NSYCRN43200	457.00	NSYMM43	51.00	
	400	200	1	NSYCRN44200	496.00	NSYMM44	74.00	
	600	250	1	NSYCRN46250	869.00	NSYMM64	104.00	
		300	1	NSYCRN46300	768.00	NSYMM64	104.00	
500	400	150	1	NSYCRN54150	528.00	NSYMM54	87.00	
		200	1	NSYCRN54200	565.00	NSYMM54	87.00	
		250	1	NSYCRN54250	621.00	NSYMM54	87.00	
	500	250	1	NSYCRN55250	1,075.00	NSYMM55	106.00	
600	400	150	1	NSYCRN64150	854.00	NSYMM64	104.00	
		200	1	NSYCRN64200	643.00	NSYMM64	104.00	
		250	1	NSYCRN64250	703.00	NSYMM64	104.00	
	500	150	1	NSYCRN65150	691.00	NSYMM65	124.00	
		200	1	NSYCRN65200	784.00	NSYMM65	124.00	
		250	1	NSYCRN65250	846.00	NSYMM65	124.00	
	600	200	150	1	NSYCRN66200	848.00	NSYMM66	147.00
			250	1	NSYCRN66250	962.00	NSYMM66	147.00
			300	1	NSYCRN66300	1,079.00	NSYMM66	147.00
	800	300	1	NSYCRN68300	1,195.00	NSYMM86	232.00	
700	500	200	1	NSYCRN75200	870.00	NSYMM75	150.00	
		250	1	NSYCRN75250	941.00	NSYMM75	150.00	
800	600	200	1	NSYCRN86200	1,049.00	NSYMM86	232.00	
		250	1	NSYCRN86250	1,157.00	NSYMM86	232.00	
		300	1	NSYCRN86300	1,309.00	NSYMM86	232.00	
	800	200	1	NSYCRN88200	1,250.00	NSYMM88	320.00	
		300	1	NSYCRN88300	1,400.00	NSYMM88	320.00	
1000	600	250	1	NSYCRN106250	1,418.00	NSYMM106	481.00	
		300	1	NSYCRN106300	1,513.00	NSYMM106	481.00	
	800	250	1	NSYCRN108250	1,538.00	NSYMM108	406.00	
		300	1	NSYCRN108300	1,769.00	NSYMM108	406.00	

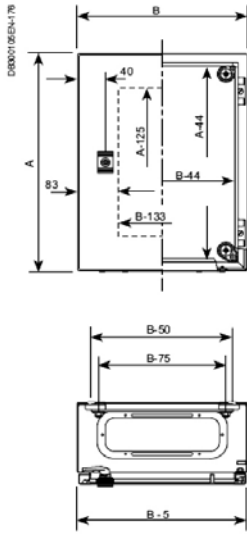


Fig. 1

A: Enclosure height
 B: Enclosure width
 C: Enclosure depth

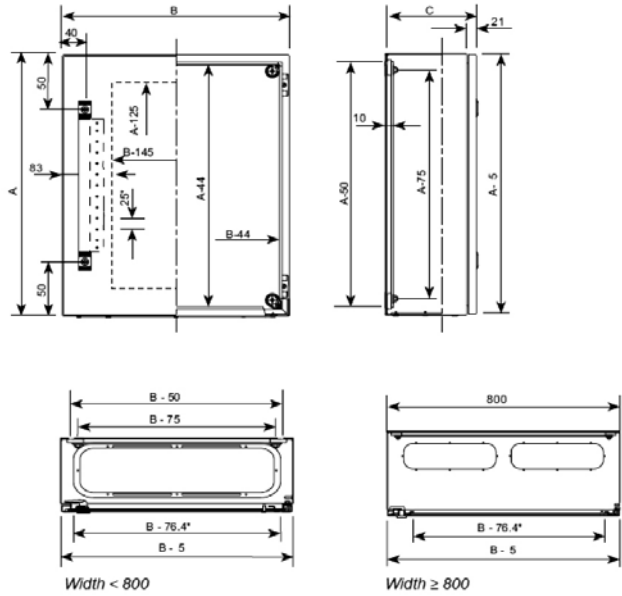
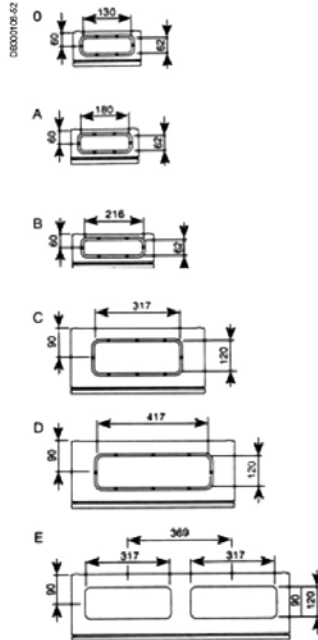


Fig. 2

Spacial CRN cable entry dimensions and type



None of the T glazed-door enclosures have door reinforcement profiles.

Our DXF diagrams and technical instruction sheets can be downloaded from our websites.

Energy Management PowerLogic® System

EasyLogic® System

Power-monitoring Units

Digital Meter DM6000H	8-1
Power Meter PM1125	8-2
Power Meter PM2000	8-3

PowerLogic® System

Power-monitoring Units

Power Meter PM5000	8-4
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Powertag & Smart Communication Module	8-5
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DM6000 series

Digital Panel Meter DM6000H

The PowerLogic DM6000H series digital panel meters offer the basic measurement capabilities required to monitor an electrical installation.

- Easy to read display
- Analogue load bar
- Turbo Key access to information
- Colour-coded terminal board labeling

	Commercial Reference	Price (RM)
Integrated display, basic metering	METSEDM6000HCL10NC	740.00
Integrated display, basic metering and RS485 communication port	METSEDM6200HCL10RS	835.00

Digital Panel Meter DM6000H series selection table

Parameter	DM6000H Class 1.0	DM6200H Class 1.0
Sampling rate per cycle	32	32
Amps: average and per-phase, calculated neutral current	■	■
Voltage: V L-N, V L-L, average, per-phase	■	■
Power factor: average and per-phase	■	■
Frequency: any available phase	■	■
Revolutions per minute (RPM)	■	■
Phase angle : amp deg (V to amps, per-phase)	■	■
% Unbalance: Maximum of 3-ph V and Amps	■	■
Life time counter - meter on hrs and number of power interruptions	■	■
Communication: RS-485, Modbus RTU protocol		■
Commercial reference number	METSEDM6000HCL10NC	METSEDM6200HCL10RS



PM2000 series LCD display

Power meter PM1125

The PowerLogic PM1125 series power meters are easy-to-use, cost effective meters that offer the basic measurement capabilities required to monitor an electrical installation.

- Accuracy class 0.5s per IEC 62053-22
- Tested in accordance with IEC 620502-11 for energy test requirements

	Commercial Reference	Price (RM)
Integrated display, basic metering and RS485 communication port	METSEPM1125HCL05RD	1,450.00

Feature set summary

Parameter/ Meter reference	PM1125H, CL0.5, RS-485
Class of accuracy (Wh)	0.5
Sampling rate per cycle	32
Amps: average and per-phase, calculated neutral current	■
Voltage: V L-N, V L-L, average, per-phase	■
Power factor: average and per-phase	■
Frequency: any available phase	■
Power (W, VA, VAR) - Total and per-phase	■
Energy (Wh, VARh, VAh) - Delivered & Received or Forward & Reverse or Import &	■
Demand parameters – selectable for W, VA, VAR (one at a time)	■
Old registers – retrieval of last cleared values of energy and Run Hrs	■
Revolutions per minute (RPM)	■
Phase angle : Amp Deg (V to Amps, per-phase)	■
% Unbalance: Max unbalance Volts & Amps among 3 phase (s)	■
Life time counter - meter ON Hrs, Load Run Hrs and number of power interruptions	■
Communication: 2 wire, RS-485, Modbus RTU protocol	■
Commercial reference number	METSEPM1125HCL05RD



PM2000 series LED display meter



PM2000 series LCD display

Power meter PM2000

Introducing EasyLogic PM2000 series, next generation power meter which offers all the measurement capabilities required to monitor an electrical installation in a single 96 x 96mm (3.77 x 3.77 in) unit. PM2000 meters are available in LED and LCD display variants.

- **PM2100 series:** LED display type: Intuitive navigation with self-guided, three buttons, bright red colour LEDs of 14.2 mm (0.55 in) height. Two columns of LEDs, one on each side of the meter's front panel indicates the parameter name chosen for display.
- **PM2200 series:** LCD display type : Monochrome graphical LCD of 128x128 resolution with viewable area of 67 x 62.5 mm (2.63 in x 2.46 in) lets the users read all three phase measured values simultaneously. The bright anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles. Intuitive menus, multi-language text, icons and graphics create a friendly environment to learn about your electrical network.

	Commercial Reference	Price (RM)
LED display type : Intuitive navigation with self-guided, three buttons, bright red colour LEDs, Class 1.0, up to 15th harmonic	METSEPM2120	2,100.00
LED display type : Intuitive navigation with self-guided, three buttons, bright red colour LEDs, Class 0.5, up to 31st harmonic	METSEPM2130	2,100.00
LCD display type : Monochrome graphical LCD of 128x128 resolution, Class 1.0, up to 15th harmonic	METSEPM2220	2,300.00
LCD display type : Monochrome graphical LCD of 128x128 resolution, Class 0.5, up to 31st harmonic	METSEPM2230	2,300.00

Parameter	PM2120	PM2130	PM2220	PM2230
Power Quality Analysis	total harmonic distortion up to the 15th harmonic	total harmonic distortion up to the 31st harmonic	total harmonic distortion up to the 15th harmonic	total harmonic distortion up to the 31st harmonic
Type of Measurement	Active and reactive energy total Active and reactive power min/max, total Apparent energy total Apparent power min/max, total Current min/max, avg Frequency min/max, avg Power factor min/max, avg Total current harmonic distortion THD (I) per phase Total voltage harmonic distortion THD (U) per phase Voltage min/max, avg			
Accuracy Class	Class 1 active energy	Class 0.5S active energy	Class 1 active energy	Class 0.5S active energy
Measurement	Active energy +/- 1 %	Active energy +/- 0.5 %	Active energy +/- 1 %	Active energy +/- 0.5 %
Measurement Voltage	20...277 V AC 50/60 Hz between phase and neutral 35...480 V AC 50/60 Hz between phases			
Display Type	7 segments LED	7 segments LED	Backlit LCD	Backlit LCD
Display Colour	Red	Red	Monochrome	Monochrome
Control Type	3 x button	3 x button	4 x button	4 x button
Communication Port Support	Screw terminal block: RS485	Screw terminal block: RS485	Screw terminal block: RS485	Screw terminal block: RS485
Data Recording	Min/max for 8 parameters Time stamping	Energy consumption logs Min/max for 8 parameters Power logs Time stamping	Min/max for 8 parameters Time stamping	Energy consumption logs Min/max for 8 parameters Power logs Time stamping
Commercial Reference Number	METSEPM2120	METSEPM2130	METSEPM2220	METSEPM2230



PM5100 series



PM5300 series

Power Meter PM5000

The PM5000 series is ideal fit for cost management applications. It provides the measurement capabilities needed to allocate energy usage, pinpoint energy savings, optimize equipment efficiency and utilization, and perform high level assessment of the power quality of the electrical network.

The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles.

	Commercial Reference	Price (RM)
PM5100 power meter without Serial port	METSEPM5100	3,179.00
PM5110 power meter with Serial port	METSEPM5110	4,058.00
PM5111 power meter with Serial port + MID	METSEPM5111	4,293.00
PM5310 power meter with Serial + 2DI/2DO	METSEPM5310	4,556.00
PM5320 power meter with Ethernet + 2DI/2DO	METSEPM5320	4,895.00
PM5330 power meter with Serial + 2DI/2DO + 2 relays	METSEPM5330	4,868.00
PM5331 power meter with Serial + 2DI/2DO+ 2relays + MID	METSEPM5331	4,872.00
PM5340 power meter with Ethernet + 2DI/2DO + 2relays	METSEPM5340	5,263.00
PM5341 power meter with Ethernet + 2DI/2DO + 2relays + MID	METSEPM5341	5,300.00

	PM5100		PM5300			
Installation	PM5100	PM5110	PM5310	PM5320	PM5330	PM5340
Fast installation, panel mount with integrated display	■	■	■	■	■	■
Fast installation, DIN rail mountable	-	-	-	-	-	-
Accuracy	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S
Display						
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	■	■	■	■	■
Power and energy metering						
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■
Multi-tariff	-	-	4	4	4	4
Power quality analysis						
THD, thd, TDD	■	■	■	■	■	■
Harmonics, individual (odd) up to	15th	15th	31st	31st	31st	31st
Waveform capture & sag/swell detection	-	-	-	-	-	-
I/Os and relays						
I/Os	1DO	1DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO
Relays	0	0	0	0	2	2
Alarms and control						
Alarms	33	33	35	35	35	35
Set point response time, seconds	1	1	1	1	1	1
Single and multi-condition alarms	-	-	■	■	■	■
Boolean alarm logic	-	-	-	-	-	-
Memory for data logging	-	-	256KB	256KB	256KB	256KB
Communications						
Serial ports with modbus protocol	-	1	1	-	1	-
Ethernet port with Modbus TCP protocol	-	-	-	1	-	1
BACnet/IP protocol	-	-	-	■	-	■
Ethernet/IP protocol	-	-	-	-	-	-
DNP3.0 over Ethernet	-	-	-	-	-	-
Onboard web server with web pages	-	-	-	-	-	-
Serial to Ethernet gateway	-	-	-	-	-	-
MID ready compliance, EN50470-1/3, Annex B & Annex D Class C	-	PM5111	-	-	PM5331	PM5341
Commercial Reference Number	METSEPM5100	METSEPM5110 METSEPM5111 (MID)	METSEPM5310	METSEPM5320	METSEPM5330 METSEPM5331 (MID)	METSEPM5340 METSEPM5341 (MID)



PM5000 series

Power Meter PM5000

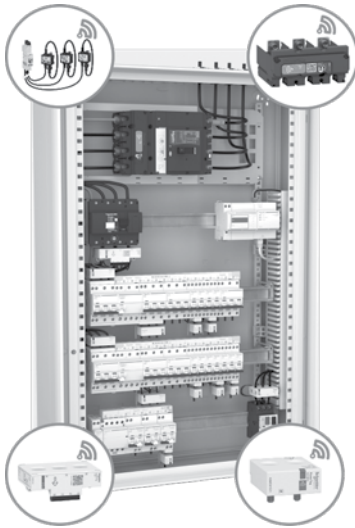
The PM5000 series is ideal fit for cost management applications. It provides the measurement capabilities needed to allocate energy usage, pin point energy savings, optimize equipment efficiency and utilization, and perform high level assessment of the power quality of the electrical network.

The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles.

Meter unit and display combination	Commercial Reference	Price (RM)
PM5560 power meter with Serial + Ethernet + 4DI/2DO	METSEPM5560	9,334.00
PM5561 power meter with Serial + Ethernet +4DI/2DO + MID	METSEPM5561	12,463.00
PM5563 power meter with Serial + Ethernet + 4DI/2DO, No Display	METSEPM5563	12,330.00
PM5563 Remote Display only	METSEPM5RD	2,630.00
PM5570 power meter with Serial + Ethernet + 2DI/2DO/2AI	METSEPM5570	10,243.00
PM5580 power meter with Serial + Ethernet + 4DI-2DO	METSEPM5580	10,350.00
PM5650 power meter with Serial + Ethernet + 4DI-2DO + Sag-well detection and waveform capture	METSEPM5650	11,570.00
PM5660 power meter with Serial + Ethernet + 2DI/2DO + RCM Channel	METSEPM5660	11,570.00
PM5661 power meter with Serial + Ethernet + 2DI/2DO + RCM Channel + MID	METSEPM5661	11,770.00
PM5760 power meter with Serial + Ethernet + 2DI/2DO + RCM Channel + Sagwell detection and waveform capture	METSEPM5760	11,570.00
PM5761 power meter with Serial + Ethernet + 2DI/2DO + RCM Channel + Sagwell detection and waveform capture + MID	METSEPM5761	11,770.00

	PM5560	PM5563	PM5570	PM5580	PM5650	PM5660	PM5760
Installation							
Fast panel mount with integrated display	■	-	■	■	■	■	■
DIN rail mountable transducer	-	■	-	-	-	-	-
Accuracy							
	Cl 0.2S	Cl 0.2S	Cl 0.2S	Cl 0.2S	Cl 0.2S	Cl 0.2S	Cl 0.2S
Display							
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	-	■	■	■	■	■
Remote display (optional)	-	■	-	-	-	-	-
Power and energy metering							
Three-phase voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■
Multitariff	8	8	8	8	8	8	8
Residual current measurement							
RCM channels	-	-	-	-	-	2	2
Power quality analysis							
THD, thd, TDD	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	63rd	63rd	63rd	63rd	63rd	63rd	63rd
Sag-swell detection and waveform capture	-	-	-	-	■	-	■
I/O							
DI/DO/AI options	4/2/-	4/2/-	2/2/2	4/2/-	4/2/-	2/2/-	2/2/-
Alarms and control							
Alarms	52	52	50	52	54	54	56
Set point response time, seconds	1	1	1	1	1	1	1
Single and multicondition alarms	■	■	■	■	■	■	■
Boolean alarm logic	■	■	■	■	■	■	■
Communications							
Serial port with Modbus protocol	1	1	1	1	1	1	1
Ethernet port with Modbus TCP, BACnet/IP	2	2	2	2	2	2	2
DNP3.0 over Ethernet, EtherNet/IP	■	■	■	■	■	■	■
Ethernet-to-serial gateway	■	■	■	■	■	■	■
Onboard Web server with Web pages	■	■	■	■	■	■	■
MID compliance (EN50470-1/3)	PM5561	-	-	-	-	PM5661	PM5761
Commercial Reference Number	METSEPM5560 METSEPM5561 (MID)	METSEPM5563 METSEPM5RD Remote Display	METSEPM5570	METSEPM5580	METSEPM5650	METSEPM5660 METSEPM5661 (MID)	METSEPM5760 METSEPM5761 (MID)

PowerTag & Smart Communication Module



PowerTag Energy is a wireless-communication energy sensor
It is designed specifically for Energy management, Load monitoring and Power availability applications.

Values measured in accordance with the IEC 61557-12 standard:

ENERGY

- Active Energy received / delivered* (Class 1), total and partial (kWh)
- Reactive Energy delivered / received*

REAL-TIME

Measurements values:

- Phase-to-neutral and phase-to-phase Voltage
- Current per phase
- Active / Reactive* Power, total and per phase
- Apparent Power total and per phase*
- Power factor total and per phase*
- Frequency*

ALARM

Voltage loss



POWERTAG ENERGY NEEDS
to be associated with a concentrator to treat the data collected and provide additional alarms.*

Benefits of PowerTag Energy sensors?

Small & COST EFFECTIVE

- Compact Energy sensors directly installed on protective devices of the circuit to be monitored up to 630 A
- Optimized panel size

ACCURATE

- Class 1 according to IEC 61557-12
- Voltage and current are measured at the same point on the circuit providing accurate measurement and relevant information such as voltage loss

WIRELESS-COMMUNICATION

- Simplify switchboard wiring and commissioning operations
- Allow flexibility in switchboard arrangement, no communication cables

EASY INSTALLATION & COMMISSIONING

- Perfect for retrofit with limited impact on DIN rail
- Openable sensors with Rope design
- Scalable solution: add sensors at any steps of the project
- PowerTag Energy sensors are detected automatically by the concentrator during commissioning

PowerTag & Smart Communication Module



PowerTag				
Type	Description	Mounting	Commercial Reference	Price(RM)
1P+wire	Powertag Energy M63 1PW	Top or bottom	A9MEM1520	882.00
1P+N	Powertag Energy M63 1PN T	Top	A9MEM1521	900.00
	Powertag Energy M63 1PN B	Bottom	A9MEM1522	900.00
3P	Powertag Energy M63 3P	Top or bottom	A9MEM1540	1,608.00
3P+N	Powertag Energy M63 3PN T	Top	A9MEM1541	1,608.00
	Powertag Energy M63 3PN B	Bottom	A9MEM1542	1,608.00
1P+N	Powertag Energy P63 1PN T	Top	A9MEM1561	1,350.00
	Powertag Energy P63 1PN B	Bottom	A9MEM1562	1,350.00
1P+N RCBO	Powertag Energy P63 1PN B RCBO	Bottom	A9MEM1563	1,350.00
3P+N	Powertag Energy P63 3PN T	Top	A9MEM1571	1,990.00
	Powertag Energy P63 3PN B	Bottom	A9MEM1572	1,990.00
1P+N	Powertag Energy F63 1PN	Top or Bottom	A9MEM1560	1,350.00
	Powertag Energy F63 1PN 110V	Top or Bottom	A9MEM1564 *	1,350.00
3P	Powertag Energy F63 3P	Top or Bottom	A9MEM1573 *	1,990.00
3P+N	Powertag Energy F63 3P+N	Top or Bottom	A9MEM1570	1,990.00
	Powertag Energy F63 3P+N 127/220V	Top or Bottom	A9MEM1574 *	1,990.00
F160 3P/3P+N	Powertag Energy Flex 160 A 3P / 3P+N		A9MEM1580	1,347.00
R200 3P/3P+N	Powertag Energy Rope 200 A 3P /3P+N		A9MEM1590	4,220.00
R600 3P/3P+N	Powertag Energy Rope 600 A 3P /3P+N		A9MEM1591	4,220.00
R1000 3P/3P+N	Powertag Energy Rope 1000 A 3P /3P+N		A9MEM1592	4,220.00
R2000 3P/3P+N	Powertag Energy Rope 2000 A 3P /3P+N		A9MEM1593	4,220.00
M250 3P	Powertag Energy 250 A 3P		LV434020	3,723.00
M250 3P+N	Powertag Energy 250 A 3P+N		LV434021	4,422.00
M630 3P	Powertag Energy 630 A 3P		LV434022	8,345.00
M630 3P+N	Powertag Energy 630 A 3P+N		LV434023	9,214.00

* Not compatible with Smartlink SI B (A9ZMA08)

PowerTag			
Type	Description	Commercial Reference	Price(RM)
Powetag Link	Connect up to 20 power tags	A9XMWD20	2,170.00
Powertag Link HD	Connect up to 100 power tags	A9XMWD100	3,409.00
Smartlink SI B (Ethernet)	Connect up to 20 power tags	A9XMZA08	4,039.00

Power Factor Correction

Low Voltage Capacitor

EasyCan SDuty

9-1

Detuned Reactor

VarPlus Max

9-2

Low Voltage Capacitor

EasyCan SDuty



EasyCan SDuty

A safe, reliable and high performance solution for power factor correction in standard operating conditions

- For network with insignificant non-linear loads: ($N_{LI} \leq 10\%$)
- Standard voltage disturbances
- Standard operating temperature up to 55°C
- Normal switching frequency up to 5000/year
- Maximum current (including harmonics) is $1.5 \times I_N$

Benefits

- Safety
 - Self-healing
 - Pressure-sensitive disconnecter on all three phases
 - Discharge resistor
- Life expectancy up to 100,000 hours
- High Inrush Current = $200 \times I_N$
- Economic benefits and easy installation due to its compact size and low weight
- Easy maintenance thanks to its unique finger-proof CLAMPTITE termination to ensure tightening
- Type tested according to IEC 60831-1/-2

EasyCan

50 Hz				60 Hz				$\mu F(X3)$	Case code	Commercial Reference	Price (RM)
Q_N (kvar)			I_N (A)	Q_N (kvar)			I_N (A)				
230 V	240 V	260 V	at 260 V	230 V	240 V	260 V	at 260 V				
2.5	2.7	3.2	7.1	3.0	3.3	3.8	8.5	46.0	HC	BLRCS027A033B24	390.00
5.0	5.4	6.4	14.2	6.0	6.5	7.7	17.0	92.1	MC	BLRCS054A065B24	500.00
5.8	6.3	7.4	16.4	6.9	7.5	8.9	19.7	116.0	NC	BLRCS063A075B24	590.00
7.6	8.3	9.6	21.3	9.1	10.0	11.5	25.5	138.1	NC	BLRCS083A100B24	650.00
10.0	10.9	12.8	28.4	12.0	13.0	15.3	34.1	152.8	SC	BLRCS109A130B24	823.00

Rated Voltage 440 V

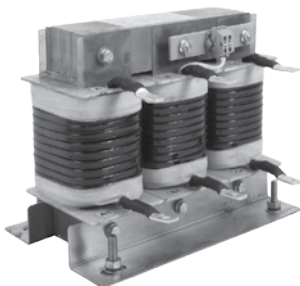
50 Hz				60 Hz				$\mu F(X3)$	Case code	Commercial Reference	Price (RM)
Q_N (kvar)			I_N (A)	Q_N (kvar)			I_N (A)				
400 V	415 V	440 V	at 440 V	400 V	415 V	440 V	at 440 V				
4.1	4.4	5.0	3.6	5.0	5.3	6.0	4.3	27.4	HC	BLRCS050A060B44	404.00
8.3	8.9	10.0	4.8	9.9	10.7	12.0	5.7	54.8	LC	BLRCS100A120B44	465.00
10.3	11.1	12.5	6.1	12.4	13.3	15.0	7.3	68.5	NC	BLRCS125A150B44	534.00
12.4	13.3	15.0	9.1	14.9	16.0	18.0	10.9	82.2	NC	BLRCS150A180B44	575.00
16.5	17.8	20.0	15.0	19.8	21.4	24.0	18.0	109.6	SC	BLRCS200A240B44	652.00
20.7	22.2	25.0	21.7	24.8	26.7	30.0	26.0	137.0	SC	BLRCS250A300B44	676.00
25.0	27.0	30.3	28.9	30.0	32.3	36.4	34.6	166.0	SC	BLRCS303A364B44	819.00

Rated Voltage 525 V

50 Hz				60 Hz				$\mu F(X3)$	Case code	Commercial Reference	Price (RM)
Q_N (kvar)			I_N (A)	Q_N (kvar)			I_N (A)				
415 V	480 V	525 V	at 525 V	400 V	480 V	525 V	at 525 V				
3.1	4.2	5.0	5.5	3.5	5.0	6.0	6.6	19.2	HC	BLRCS050A060B52	421.00
6.6	8.9	10.6	11.7	7.4	10.6	12.7	14.0	40.8	MC	BLRCS106A127B52	528.00
7.8	10.4	12.5	13.7	8.7	12.5	15.0	16.5	48.1	NC	BLRCS125A150B52	544.00
9.6	12.9	15.4	16.9	10.7	15.4	18.5	20.3	59.3	NC	BLRCS154A185B52	575.00
12.5	16.7	20.0	22.0	13.9	20.1	24.0	26.4	77.0	SC	BLRCS200A240B52	674.00
15.6	20.9	25.0	27.5	17.4	25.1	30.0	33.0	96.2	SC	BLRCS250A300B52	723.00

Detuned Reactor

VarPlus Max



The Detuned Reactor (DR) are designed to protect the capacitors by preventing amplification of the harmonics present on the network

Qn (Kvar)	Rated Current In	Designated Reactor Rated Current I _{rms}	Inductance (3 rd mH)	Max Losses at I ₁ (W)	Max losses (W)	Description	Commercial Reference	Price (RM)
5	4.7	5.5	12.28	40	80	Detuned Reactor 415V 50HZ 3.4KVAR 190HZ	LVR07034A41LO	826.00
10	9.3	10.9	6.14	70	100	Detuned Reactor 415V 50HZ 6.7KVAR 190HZ	LVR07067A41LO	997.00
15	14	16.4	4.093	80	140	Detuned Reactor 415V 50HZ 10.1KVAR 190HZ	LVR07101A41LO	1,124.00
20	18.7	21.9	3.07	100	160	Detuned Reactor 415V 50HZ 13.4KVAR 190HZ	LVR07134A41LO	1,217.00
25	23.4	27.3	2.456	100	190	Detuned Reactor 415V 50HZ 16.8KVAR 190HZ	LVR07168A41LO	1,235.00
30	28	32.8	2.047	110	220	Detuned Reactor 415V 50HZ 20.2KVAR 190HZ	LVR07202A41LO	1,552.00
40	37.4	43.7	1.535	128	270	Detuned Reactor 415V 50HZ 6.9KVAR 190HZ	LVR07269A41LO	1,660.00
50	46.7	54.7	1.228	140	310	Detuned Reactor 415V 50HZ 33.6KVAR 190HZ	LVR07336A41LO	1,896.00
60	56.1	65.6	1.023	180	350	Detuned Reactor 415V 50HZ 40.3KVAR 190HZ	LVR07403A41LO	2,079.00
70	65.4	76.6	0.877	220	410	Detuned Reactor 415V 50HZ 47.0KVAR 190HZ	LVR07470A41LO	2,219.00
75	70.1	82	0.819	240	450	Detuned Reactor 415V 50HZ 50.4KVAR 190HZ	LVR07504A41LO	2,327.00
80	74.8	87.5	0.768	260	470	Detuned Reactor 415V 50HZ 53.8KVAR 190HZ	LVR07538A41LO	2,451.00
100	93.5	109.4	0.614	300	550	Detuned Reactor 415V 50HZ 67.2KVAR 190HZ	LVR07672A41LO	2,886.00
120	112.2	131.2	0.512	340	580	Detuned Reactor 415V 50HZ 80.6KVAR 190HZ	LVR07806A41LO	3,290.00
150	140.2	164	0.409	380	660	Detuned Reactor 415V 50HZ 100.8KVAR 190HZ	LVR07X01A41LO	3,971.00
160	149.6	175	0.384	420	680	Detuned Reactor 415V 50HZ 107.5KVAR 190HZ	LVR07X07A41LO	4,282.00
200	186.9	218.7	0.307	460	700	Detuned Reactor 415V 50HZ 134.4KVAR 190HZ	LVR07X34A41LO	5,367.00

MAXimize your selection

- Wide range available in Aluminium windings

MAXimize your OPEX optimization

- Up to 30% lower losses to reduce your OPEX

Watt Loss	25Kvar 7%	50Kvar 7%
Other brands in Market	127W (at 32.8A)	170W (at 65.6A)
VarPlus MAX	90W (at 32.8A)	120W (at 65.6A)

MAXimize your thermal efficiency

- Up to 20% lower working temperatures

MAXimize your operational efficiency

- Design current up to 1.3 x Rated Current
- Saturation current limit up to 2.0 x Rated Current
- Designed for Harsh environments (Maximum voltage harmonic limit up to 9%)

Current harmonic Spectrum	Tuning 5.70%	Tuning 7%	Tuning 14%
I 3	3%	4%	5%
I 5	68%	37%	19%
I 7	19%	13%	5%
I 11	6%	5%	2%
I 13	4%	3%	1%

Electrical Network Protection Relays

Easergy P1 Series	10-1
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Electrical Network Protection Relays

Easergy P1 series



	P1F	P1V
Features and options		
Current	3CT + 1CT	-
Voltage	1VT (option)	3VT or 4VT*
Overcurrent protection	✓	✓
Directional earth-fault protection	Option	-
Voltage protection	-	✓
Frequency protection	-	option
Inputs	up to 8	up to 6
Outputs	up to 8	up to 8
Programmable LEDs	6	6
CB control keys	✓	✓
Communications	USB & RS485*	USB & RS485*
Records	✓	✓
Display	LCD 32 x 2	LCD 32 x 2

Type	Model	Short Description	Long Description	Commercial Reference	List Price (MYR)
P1F	L	Protection relay P1F1L1N0N92N0NN11N	Easergy P1F 24-250V 3CT 1I0: 0.01-2IN 0DI-4DO	REL15000	3,370
P1F	L	Protection relay P1F1L1N3N92N0NN11N	Easergy P1F 24-250V 3CT 1I0: 0.05-12IN 0DI-4DO	REL15001	3,370
P1F	L RS	Protection relay P1F1L1N0N92N1NN11N	Easergy P1F 24-250V 3CT 1I0: 0.01-2IN 0DI-4DO RS485	REL15002	3,660
P1F	L RS	Protection relay P1F1L1N3N92N1NN11N	Easergy P1F 24-250V 3CT 1I0: 0.05-12IN 0DI-4DO RS485	REL15003	3,660
P1F	N	Protection relay P1F1N1N0N92N1NN11N	Easergy P1F 24-250V 3CT 1I0: 0.01-2IN 0DI-6DO RS485 USB	REL15004	4,010
P1F	N	Protection relay P1F1N1N3N92N1NN11N	Easergy P1F 24-250V 3CT 1I0: 0.05-12IN 0DI-6DO RS485 USB	REL15005	4,010
P1F	B	Protection relay P1F1B1N0N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.01-2IN 4DI-4DO RS485 USB	REL15006	4,010
P1F	B	Protection relay P1F1B1N0N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.01-2IN 4DI-4DO RS485 USB	REL15007	4,010
P1F	B	Protection relay P1F1B1N3N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.05-12IN 4DI-4DO RS485 USB	REL15008	4,010
P1F	B	Protection relay P1F1B1N3N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.05-12IN 4DI-4DO RS485 USB	REL15009	4,010
P1F	A	Protection relay P1F1A1N0N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.01-2IN 4DI-8DO RS485 USB	REL15010	4,450
P1F	A	Protection relay P1F1A1N0N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.01-2IN 4DI-8DO RS485 USB	REL15011	4,450
P1F	A	Protection relay P1F1A1N3N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.05-12IN 4DI-8DO RS485 USB	REL15012	4,450
P1F	A	Protection relay P1F1A1N3N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.05-12IN 4DI-8DO RS485 USB	REL15013	4,450
P1F	E	Protection relay P1F1E1N0N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.01-2IN 8DI-6DO RS485 USB	REL15014	4,450
P1F	E	Protection relay P1F1E1N0N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.01-2IN 8DI-6DO RS485 USB	REL15015	4,450
P1F	E	Protection relay P1F1E1N3N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.05-12IN 8DI-6DO RS485 USB	REL15016	4,450
P1F	E	Protection relay P1F1E1N3N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.05-12IN 8DI-6DO RS485 USB	REL15017	4,450
P1F	E+	Protection relay P1F1E110N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.01-2IN 1VT 8DI-6DO RS485 USB	REL15020	4,680
P1F	E+	Protection relay P1F1E110N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.01-2IN 1VT 8DI-6DO RS485 USB	REL15021	4,680
P1F	E+	Protection relay P1F1E113N91N1NN11N	Easergy P1F 24-60V 3CT 1I0: 0.05-12IN 1VT 8DI-6DO RS485 USB	REL15022	4,680
P1F	E+	Protection relay P1F1E113N92N1NN11N	Easergy P1F 90-250V 3CT 1I0: 0.05-12IN 1VT 8DI-6DO RS485 USB	REL15023	4,680
P1V	L	Protection relay P1V1L10N1N2N0NN11N	Easergy P1V 24-250V 3VT: 57-130V 0DI-4DO	REL15024	4,980
P1V	L	Protection relay P1V1L10N2N2N0NN11N	Easergy P1V 24-250V 3VT: 220-480V 0DI-4DO	REL15025	4,980
P1V	N	Protection relay P1V1N11N1N1N1NN11N	Easergy P1V 24-60V 4VT: 57-130V 2DI-6DO RS485 USB	REL15026	6,000
P1V	N	Protection relay P1V1N11N2N1N1NN11N	Easergy P1V 24-60V 4VT: 220-480V 2DI-6DO RS485 USB	REL15027	6,000
P1V	N	Protection relay P1V1N11N1N2N1NN11N	Easergy P1V 90-250V 4VT: 57-130V 2DI-6DO RS485 USB	REL15028	6,000
P1V	N	Protection relay P1V1N11N2N2N1NN11N	Easergy P1V 90-250V 4VT: 220-480V 2DI-6DO RS485 USB	REL15029	6,000
P1V	A	Protection relay P1V1A11N1N1N1NN11N	Easergy P1V 24-60V 4VT: 57-130V 6DI-8DO RS485 USB	REL15030	6,440
P1V	A	Protection relay P1V1A11N2N1N1NN11N	Easergy P1V 24-60V 4VT: 220-480V 6DI-8DO RS485 USB	REL15031	6,440
P1V	A	Protection relay P1V1A11N1N2N1NN11N	Easergy P1V 90-250V 4VT: 57-130V 6DI-8DO RS485 USB	REL15032	6,440
P1V	A	Protection relay P1V1A11N2N2N1NN11N	Easergy P1V 90-250V 4VT: 220-480V 6DI-8DO RS485 USB	REL15033	6,440

Electrical Network Protection Relays

Sepam series 20, 40, 60, 80

Substation Applications (Feeder)

Standard Sepam

Description	Commercial Reference	List Price (RM)
SEPAM 1000+ 48-250V 70C S20	SP-59603-S20-8-0	4,638.00
SEPAM 1000+ 48-250V 70C S20	SP-59607-S20-8-0	5,299.00
SEPAM S20 ADV UMI CCA634	SP-59607-S20-8-9	5,299.00
SEPAM 1000+ 24V S40	SP-59604-S40-8-0-6	12,317.00
SEPAM SERIES 40 S40	SP-59604-S40-8-9-6	15,265.00
SEPAM 1000+ 24V S41	SP-59604-S41-8-0-6	18,358.00
SEPAM 1000+S42	SP-59604-S42-8-0-6	27,832.00
SEPAM 1000+ 24V S42	SP-59604-S42-8-9-6	27,832.00
SEPAM S60- W MIMIC DISPLAY-LUG	SP-59836-S60-8-0	13,298.00
SEPAM S60- W MIMIC DISPLAY-LUG	SP-59836-S60-8-9	13,298.00
SEPAM SERIES 80 S80	SP-59704-S80-8-0	25,533.00
SEPAM SERIES 80 S80	SP-59704-S80-8-9	25,533.00
SEPAM SERIES 80 S81	SP-59704-S81-8-0	32,093.00
SEPAM SERIES 80 S81	SP-59704-S81-8-9	32,093.00
SEPAM SERIES 80 S82	SP-59704-S82-8-0	47,610.00
SEPAM SERIES 80 S82	SP-59704-S82-8-9	47,610.00
SEPAM SERIES 80 S80	SP-59705-S80-8-0	35,998.00
SEPAM SERIES 80 S82	SP-59705-S82-8-0	38,514.00

Electrical Network Protection Relays

Sepam series 20, 40, 60, 80

Transformer Applications

Standard SEPAM

Description	Commercial Reference	List Price (RM)
SEPAM 1000+ 48-250V 70C T20	SP-59607-T20-8-0	8,074.00
SEPAM 1000+ 48-250V 70C T20	SP-59607-T20-8-9	8,027.00
SEPAM 1000+ 24-250 VAC/DC T40	SP-59604-T40-8-0-6	14,462.00
SEPAM 1000+ 24V T40	SP-59604-T40-8-9-6	16,779.00
SEPAM T60- W MIMIC DISPLAY-LUG	SP-59836-T60-8-9	20,362.00
SEPAM SERIES 80 T81	SP-59704-T81-8-0	39,284.00
SEPAM SERIES 80 T81	SP-59704-T81-8-9	39,284.00
SEPAM SERIES 80	SP-59705-T81-8-0	38,983.00
SEPAM SERIES 80 T82	SP-59704-T82-8-0	54,799.00
SEPAM 1000 T87	SP-59704-T87-8-0	66,909.00
SEPAM SERIES 80 T87.	SP-59704-T87-8-9	64,960.00
SEPAM SERIES 80 T87	SP-59705-T87-8-0	54,379.00

Electrical Network Protection Relays

Sepam series 20, 40, 80

Motor Applications

Standard SEPAM

Description	Commercial Reference	List Price (RM)
SEPAM 1000+ 48-250V 70C M20	SP-59607-M20-8-0	9,714.00
SEPAM M20 ADV UMI CCA634	SP-59607-M20-8-9	9,714.00
SEPAM 1000+ 24V M40	SP-59604-M40-8-9-6	15,724.00
SEPAM 1000+ M41 ADVANCED UMI	SP-59604-M41-8-0-6	21,399.00
SEPAM 1000+ 24V M41	SP-59604-M41-8-9-6	27,615.00
SEPAM SERIES 80 M81	SP-59704-M81-8-0	37,844.00
SEPAM SERIES 80 M81	SP-59704-M81-8-9	37,012.00
SEPAM SERIES 80 M81	SP-59705-M81-8-9	40,671.00
SEPAM SERIES 80 M87	SP-59704-M87-8-0	51,274.00
SEPAM SERIES 80 M87	SP-59704-M87-8-9	51,439.00

Electrical Network Protection Relays

Sepam series 40, 60, 80

Generator Applications

Standard SEPAM

Description	Commercial Reference	List Price (RM)
Sepam1000+ G40 Basic UMI	SP-59604-G40-8-9-6	20,391.00
SEPAM G60- W MIMIC DISPLAY-LUG	SP-59836-G60-8-9	20,875.00
SEPAM SERIES 80 G82	SP-59704-G82-8-0	60,728.00
Elec Network Protection Relay Generator	SP-59704-G82-8-9	60,728.00
SEPAM 1000+ G87	SP-59704-G87-8-0	69,507.00
SEPAM 1000+ G87	SP-59704-G87-8-9	69,507.00
SEPAM SERIES 80 G88	SP-59704-G88-8-0	80,104.00
SEPAM Series 80 Advanced HMI-G88	SP-59704-G88-8-9	80,104.00

Electrical Network Protection Relays

Sepam series 20, 80
Busbar Applications

Standard SEPAM

Description	Commercial Reference	List Price (RM)
SEPAM 1000+ 48-250V 70C B21	SP-59607-B21-8-2	7,116.00
SEPAM SERIES 80 B80	SP-59704-B80-8-9	17,469.00
SEPAM SERIES 80 B83	SP-59704-B83-8-9	40,040.00
SEPAM SERIES 80 B83	SP-59705-B83-8-0	44,375.00

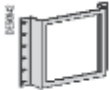
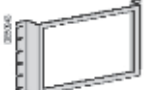





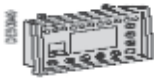
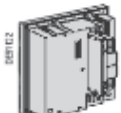
Electrical Network Protection Relays


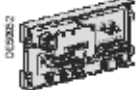






Sepam series 80

Capacitor Bank Applications

Standard SEPAM

Description	Commercial Reference	List Price (RM)
SEPAM Series 80 Advanced HMI-C86	SP-59704-C86-8-9	29,570.00

Mounting accessories		Commercial Reference	List Price (RM)
		Mounting plate for Sepam series 20/40 base unit and MCS025 module	AMT840 59670 791.00
AMT840	AMT880	Mounting plate for Sepam series 60/80 base unit	AMT880 59706 791.00
		Blanking plate	AMT820 59699 435.00
Software tools		Commercial Reference	List Price (RM)
		PC connection cord - RS232 connection	CCA783 59664 347.00
		PC connection cord - USB connection	CCA784 59671 798.00
		Configuration software CD	CD SFT2841 59679 336.00
		Logipam software CD	CD SFT 2885 59727 382.00
		IEC 61850 Configuration software CD	CD SFT850 59726 667.00
Input / output modules		Commercial Reference	List Price (RM)
		Sepam series 20 - 40	
MES114	MES120	10 inputs + 4 outputs 24-250 V DC	MES114 59646 2,368.00
		10 inputs + 4 outputs 110-125 V DC / V AC	MES114E 59651 2,368.00
		10 inputs + 4 outputs 220-250 V DC / V AC	MES114F 59652 2,999.00
		Sepam series 60 - 80	
		14 inputs + 6 outputs 24-250 V DC	MES120 59715 5,174.00
		14 inputs + 6 outputs 220-250 V DC	MES120G 59716 5,174.00
		14 inputs + 6 outputs 110-125 V DC	MES120H 59722 5,174.00
Remote modules and cords		Commercial Reference	List Price (RM)
		Remote modules	
MSA114	MET148-2	8 temperature sensors module	MET148-2 59641 3,677.00
		Analog output module	MSA141 59647 2,210.00
		Remote advanced UMI module	DSM303 59608 4,007.00
		Remote module connection cord L = 0.6 m	CCA770 59660 125.00
		Remote module connection cord L = 2 m	CCA772 59661 184.00
		Remote module connection cord L = 4 m	CCA774 59662 246.00
		Synchro-check module	
DSM303	MCS025	Synchro-check module (with CCA785 connection cord)	MCS025 59712 13,102.00
		MCS025 connection cord	CCA785 59665 186.00

Communication accessories			Commercial Reference	List Price (RM)	
			Sepam communication interfaces		
ACE937	ACE949-2	ACE959	2-wire RS 485 network interface (CCA612 not included)	ACE949-2 59642 1,093.00	
			4-wire RS 485 network interface (CCA612 not included)	ACE959 59643 1,856.00	
ACE 909-2	ACE969TP-2	ACE969FO-2	Fiber optic interface (CCA612 not included)	ACE937 59644 1,560.00	
			Communication cord L = 3 m	CCA612 59663 200.00	
			2-wire RS 485 multiprotocol network interface (CCA612 not included)	ACE969TP-2 59723 3,843.00	
			Fiber optic multiprotocol network interface (CCA612 not included)	ACE969FO-2 59724 4,810.00	
			10/100 baseTX TCP/IP interface *	ACE850TP 59658 7,349.00	
			100FX base TCP/IP interface *	ACE850FO 59659 8,267.00	
			TCP/IP firmware option *	TCP/IP 59754 598.00	
Converters					
			RS 232 / RS 485 converter	AC909-2 59648 8,533.00	
			RS 485 / RS 485 interface (AC)	ACE919CA 59649 7,447.00	
			RS 485 / RS 485 interface (DC)	ACE919CC 59650 7,447.00	
Sensors					
	Core balance CTs			Commercial Reference	
CSH120	Residual current sensor Ø 120			CSH120 59635 2,074.00	
			Residual current sensor Ø 200	CSH200 59636 2,564.00	
			Interposing ring CT for residual current input	CSH30 59634 676.00	
			Core balance CT interface	ACE990 59672 6,005.00	
LPCT accessories					
			LPCT injection adapter	ACE917 59667 34,120.00	
			Remote LPCT test plug	CCA613 59666 12,100.00	
Spare connectors					
					Sepam
CCA620	CCA622	CCA630	CCA671	CCT640	20-pin screw-type connector
					CCA620 59668 57.00
					CCA622 59669 345.00
					CCA626 59656 82.00
					CCA627 59657 218.00
					CCA630 59630 834.00
					CCA634 59629 901.00
					CCA670 59631 784.00
					CCA671 59702 1,600.00
					CCT640 59632 2,310.00

Contactors, Motor Circuit Breakers & Protection Relays

TeSys Contactors and Protection Components

Easypact TVS

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Tesys K

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Motor Protection Circuit Breakers

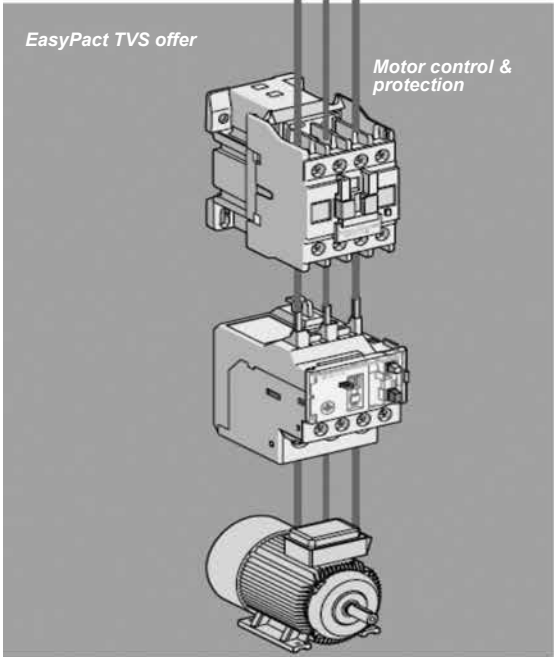
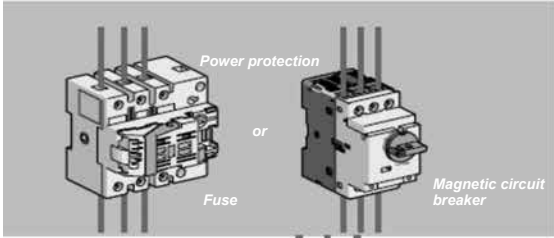
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Additional Applications

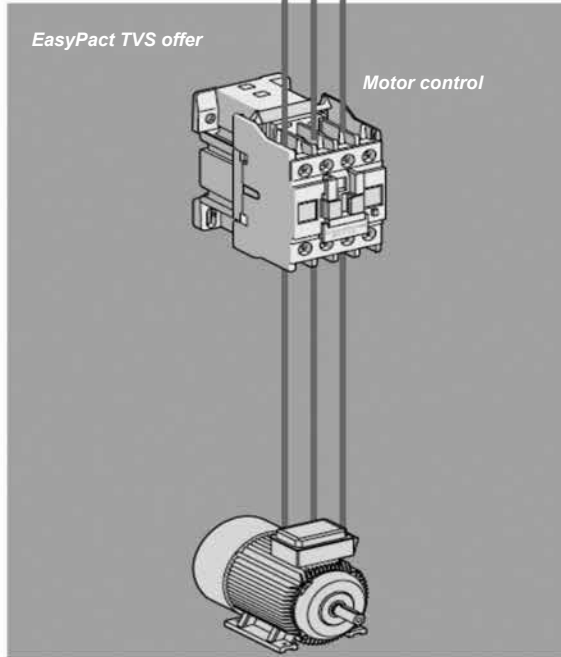
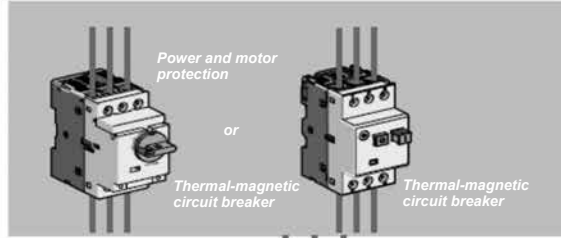
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2 principles to build your starter solution

3-components solution (Magnetic circuit breaker or fuse + Contactor + TOR)



2-components solution (Thermal-magnetic circuit breaker + Contactor)



To build the essential solutions in an easy and simple way

Control		Terminal block
Reversor starter		Star-Delta solution

EasyPact TVS 3-pole contactors

For motor control up to 335kW at 400V
6 to 630 A in category AC-3



LC1E06



LC1E65



LC1E120



LC1E300

3-pole contactors						
Standard power rating of 3-phase motors 50/60Hz in category AC-3	Rated operational current at 440V up to		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the control voltage code (1)	Price (RM)
400V kW	AC-3 A	AC-1 A	N/O	N/C	Fixing (2)	
Connection by screw clamp terminals						
2.2	6	20	1	0	LC1E0610**	76.00
			0	1	LC1E0601**	76.00
4	9	25	1	0	LC1E0910**	76.00
			0	1	LC1E0901**	76.00
5.5	12	25	1	0	LC1E1210**	102.00
			0	1	LC1E1201**	102.00
7.5	18	32	1	0	LC1E1810**	120.00
			0	1	LC1E1801**	120.00
11	25	36	1	0	LC1E2510**	154.00
			0	1	LC1E2501**	154.00
15	32	50	1	0	LC1E3210**	192.00
			0	1	LC1E3201**	192.00
18.5	38	50	1	0	LC1E3810**	341.00
			0	1	LC1E3801**	341.00
18.5	40	60	1	1	LC1E40**	363.00
22	50	70	1	1	LC1E50**	449.00
30	65	80	1	1	LC1E65**	513.00
37	80	110	1	1	LC1E80**	696.00
45	95	120	1	1	LC1E95**	1,017.00
55	120	150	1	1	LC1E120**	1,308.00
75	160	200	1	1	LC1E160**	1,610.00
Connection by bars						
90	200	250	-	-	LC1E200**	3,355.00
132	250	300	-	-	LC1E250**	3,852.00
160	300	320	-	-	LC1E300**	5,053.00
335	630	1000	-	-	LC1E630**	13,780.00

Auxiliary contact blocks and add-on modules: see page 11-2

Auxiliary contact blocks, add-on modules and accessories.

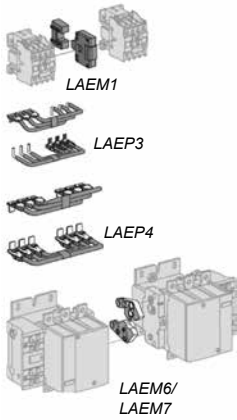
(1) Standard control circuit voltages. For other voltages please refer to catalogue.

a.c. supply								
Volts	24	48	110	220	240	380	415	440
LC1E06...300								
50Hz	B5	E5	F5	M5	U5	Q5	N5	R5
60Hz	B6	-	F6	M6	-	Q6	-	R6
LC1E400...630								
50/60 Hz	-	E7	F7	M7	U7	Q7	N7	R7

(2) LC1E06 to E65: clip-on mounting on 35 mm 5 rail AM1 DP or screw fixing.
LC1E80 to E95: clip-on mounting on 35 mm rail AM1DP or 75 mm rail AM1 DL or screw fixing.
LC1E120 and E160: clip-on mounting on 2 x 35 mm 5 rail AM1 DP or screw fixing.

EasyPact TVS Contactor Accessories

Auxiliary contact blocks, mounting accessories and component parts for assembling reversing contactors



Accessories for reversing motor starter assembly

Contactors with screw clamp terminals
Using 2 identical contactors

	Set of power connections		Mechanical interlock	
	Reference	Price (RM)	Reference	Price (RM)
Mechanical interlock				
LC1E06...E12	LAEP1	58.00	LAEM1	83.00
LC1E18/E25	LAEP12	89.00	LAEM1	83.00
LC1E32/E38	LAEP2	87.00	LAEM1	83.00
LC1E40...E65	LAEP3	156.00	LAEM1	83.00
LC1E80/E95	LAEP4	251.00	LAEM4	104.00
LC1E120/E160	DIY(1)		LAEM5	317.00
LC1E200/E250	DIY(1)		LAEM6	474.00
LC1E300...E500	DIY(1)		LAEM7	486.00
LC1E630	DIY(1)		LAEM8	751.00

RC surge suppressor

- Effective protection for circuits highly sensitive to "high frequency" interference and transient generated when the contactor coil is switched off. For use only in cases where the voltage is virtually sinusoidal, i.e. less than 5 % total harmonic distortion.
- Voltage limited to 3 Uc max. and oscillating frequency limited to 400 Hz max.
- Slight increase in drop-out time (1.2 to 2 times the normal time).



Mounting	For use with contactor Rating	Type V ac	Reference	Price (RM)
Screw mounting	LC1E06...E95	24...48	LAERCE	232.00
		50...127	LAERCG	232.00
		110...240	LAERCU	232.00
		380...415	LAERCN	232.00

LC1E••



LAEN22



LAETSD

Instantaneous auxiliary contact blocks for connection by screw lamps terminals

For use in normal operating environment

Clip-on mounting	Number of contacts per block	Reference	Price (RM)
Front	1 NO / 1 NC	LAEN11	16.00
	2 NO	LAEN20	21.00
	2 NC	LAEN02	21.00
	2 NO / 2 NC	LAEN22	30.00

Time delay auxiliary contact blocks for connection by screw clamp terminals 8A - 690V

Clip-on mounting (2)	Number of contacts per block	Time delay Type	Setting range	Reference	Price (RM)
Front	1 NO / 1 NC	On-delay	1...30 s	LAETSD	434.00

(1) DIY : Do It Yourself.

(2) For use only LC1E25 to LC1E630.

EasyPact TVS Thermal Overload Relays

3-pole thermal overload relays
Adjustable from 0.1 to 630A



LRE01



LRE03



LRE48

**Differential thermal overload relays
for use with fuses or magnetic circuit-breakers GV2 L and GV3 L**

- Compensated relays with manual or automatic reset,
- with relay trip indicator,
- for a.c.

Relay setting range (A)	Fuses to be used with selected relay		For use with contactor LC1 (2)	Reference	Price (RM)
	aM (A)	gG (A)			
Class 10A (1) for connection by screw clamp terminals					
0.10...0.16	0.25	2	E06...E38	LRE01	105.00
0.16...0.25	0.5	2	E06...E38	LRE02	106.00
0.25...0.40	1	2	E06...E38	LRE03	106.00
0.40...0.63	1	2	E06...E38	LRE04	106.00
0.63...1	2	4	E06...E38	LRE05	106.00
1...1.6	2	4	E06...E38	LRE06	106.00
1.6...2.5	4	6	E06...E38	LRE07	106.00
2.5...4	6	10	E06...E38	LRE08	106.00
4...6	8	16	E06...E38	LRE10	106.00
5.5...8	12	20	E09...E38	LRE12	106.00
7...10	12	20	E09...E38	LRE14	106.00
9...13	16	25	E12...E38	LRE16	106.00
12...18	20	35	E18...E38	LRE21	113.00
16...24	25	50	E25...E38	LRE22	120.00
23...32	40	63	E25...E38	LRE32	151.00
30...38	40	80	E38	LRE35	173.00
17...25	25	50	E40...E95	LRE322	262.00
23...32	40	63	E40...E95	LRE353	262.00
30...40	40	100	E40...E95	LRE355	274.00
37...50	63	100	E50...E95	LRE357	289.00
48...65	63	100	E65...E95	LRE359	296.00
55...70	80	125	E80...E95	LRE361	394.00
63...80	80	125	E80...E95	LRE363	394.00
80...104	80	160	E95	LRE365	506.00
Class 10A (1) directly connected by connector					
51...81	100	125	E120...E160	LRE480	637.00
62...99	125	160	E120...E160	LRE481	696.00
84...135	160	200	E120...E160	LRE482	749.00
124...198	200	250	E200	LRE483	846.00
146...234	250	315	E200...E300	LRE484	894.00
174...279	315	315	E250...E300	LRE485	951.00
208...333	400	400	E250...E400	LRE486	1,021.00
259...414	400	500	E300...E400	LRE487	1,583.00
321...513	500	800	E500	LRE488	2,400.00
394...630	630	1000	E630	LRE489	2,800.00

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current I_r:

Class 10A: between 2 and 10 seconds

(2) Direct mounting under contactor. For independent mounting of thermal overload relay

Order LAEB1 terminal block for LRE01...E35

Order LAEB3 terminal block for LRE322...E365

DOL Starter using Thermal Overload Relays

D.O.L starters using EasyPact TVS contactor and thermal overload relay for overload protection

For customer assembly



DOL starters, non-reversing

This combination comprises of:

- 1 One 3-Pole EasyPact TVS contactor
- 1 One overload relay

Short-circuit protection is provided by separate magnetic motor protection circuit breaker/fuse protection
Please see EasyPact TVS catalogue for more information

Standard power rating of 3-phase motors 50/60Hz in AC3 400V		Combination comprises of:			Combined Total Price (RM)
		Contactor Basic reference complete with code (1)	Thermal overload relay Reference Setting range		
kW	A			A	
0.06	0.2	LC1E06●●●●	LRE02	0.16 - 0.25	106.00
0.09	0.3	LC1E06●●●●	LRE03	0.25 - 0.40	106.00
		LC1E06●●●●	LRE04	0.40 - 0.63	106.00
0.12	0.44	LC1E06●●●●	LRE05	0.63 - 1.0	106.00
0.18	0.6	LC1E06●●●●	LRE05	0.63 - 1.0	106.00
0.37	1.1	LC1E06●●●●	LRE06	1.0 - 1.6	106.00
0.55	1.5	LC1E06●●●●	LRE06	1.0 - 1.6	106.00
0.75	1.9	LC1E06●●●●	LRE07	1.6 - 2.5	106.00
		LC1E06●●●●	LRE07	1.6 - 2.5	106.00
1.1	2.7	LC1E06●●●●	LRE08	2.5 - 4.0	106.00
1.5	3.6	LC1E06●●●●	LRE08	2.5 - 4.0	106.00
2.2	4.9	LC1E06●●●●	LRE10	4.0 - 6.0	106.00
3	6.5	LC1E09●●●●	LRE12	5.5 - 8.0	106.00
4	8.5	LC1E09●●●●	LRE14	7.0 - 10	106.00
		LC1E12●●●●	LRE16	9.0 - 13	106.00
7.5	15.5	LC1E18●●●●	LRE21	12 - 18	113.00
9	18.1	LC1E25●●●●	LRE22	16 - 24	120.00
11	22	LC1E25●●●●	LRE22	16 - 24	120.00
15	29	LC1E32●●●●	LRE32	23 - 32	151.00
18.5	35	LC1E40●●	LRE355	30 - 40	274.00
22	41	LC1E50●●	LRE357	37 - 50	289.00
30	55	LC1E65●●	LRE359	48 - 65	296.00
37	66	LC1E80●●	LRE361	55 - 70	394.00
		LC1E80●●	LRE363	63 - 80	394.00
45	80	LC1E95●●	LRE365	80 - 104	506.00
55	97	LC1E120●●	LRE482	84 - 135	749.00
75	132	LC1E160●●	LRE483	124 - 198	846.00
90	160	LC1E200●●	LRE483	124 - 198	846.00
110	195	LC1E250●●	LRE484	146 - 234	894.00
132	250	LC1E250●●	LRE484	146 - 234	894.00
160	280	LC1E300●●	LRE486	208 - 333	1,021.00
200	350	LC1E400●●	LRE487	259...414	1,583.00
250	430	LC1E500●●	LRE488	321...513	12,232.00
335	574	LC1E630●●	LRE489	394...630	15,921.00

(1) To complete the reference for the contactor, please refer to note below

EasyPact TVS Contactors: see page 11-1
Contactors for motor control, 6 to 630A in category AC-3

EasyPact TVS Thermal Overload Relays: see page 11-3
For overload protection, used with EasyPact TVS contactors

Star-delta Starters for Motor Control

For motors up to 260 kW at 400V using EasyPact TVS contactor and thermal overload relay for overload protection

For customer assembly

Sub-assembly by customer for Star-Delta motor starter

An EasyPact TVS star-delta starter comprises of

- I Three units of 3-Pole EasyPact TVS contactors
- I One overload relay, fixed on delta contactor

Short-circuit protection is provided by separate magnetic motor protection circuit breaker/fuse protection

Please see EasyPact TVS catalogue for more information

Standard power rating of 3-phase motors 50/60Hz in AC3 400V	Motor current in delta (IrD)		Line contactor KM2 (1)	Delta contactor KM3 (1)	Star contactor KM1 (1)	Thermal overload relays		
	A	A	Reference	Reference	Reference	Reference	Setting range	Price (RM)
1.5	3.6	2.08	LC1E06●●●●	LC1E06●●●●	LC1E06●●●●	LRE07	1.6 - 2.5	106.00
2.2	4.9	2.83	LC1E06●●●●	LC1E06●●●●	LC1E06●●●●	LRE08	2.5 - 4.0	106.00
3	6.5	3.75	LC1E06●●●●	LC1E06●●●●	LC1E06●●●●	LRE08	2.5 - 4.0	106.00
4	8.5	4.9	LC1E06●●●●	LC1E06●●●●	LC1E06●●●●	LRE10	4.0 - 6.0	106.00
5.5	11.5	6.64	LC1E09●●●●	LC1E09●●●●	LC1E09●●●●	LRE14	7.0 - 10	106.00
7.5	15.5	8.95	LC1E09●●●●	LC1E09●●●●	LC1E09●●●●	LRE14	7.0 - 10	106.00
9	18.1	10.5	LC1E12●●●●	LC1E12●●●●	LC1E09●●●●	LRE16	9.0 - 13	106.00
11	22	12.7	LC1E18●●●●	LC1E18●●●●	LC1E09●●●●	LRE21	12 - 18	113.00
15	29	16.7	LC1E18●●●●	LC1E18●●●●	LC1E09●●●●	LRE21	12 - 18	113.00
18.5	35	20.2	LC1E25●●●●	LC1E25●●●●	LC1E09●●●●	LRE22	16 - 24	120.00
22	41	23.7	LC1E25●●●●	LC1E25●●●●	LC1E09●●●●	LRE32	23 - 32	151.00
30	55	31.8	LC1E32●●●●	LC1E32●●●●	LC1E18●●●●	LRE35	30...38	173.00
37	66	38.1	LC1E40●●	LC1E40●●	LC1E40●●	LRE355	30 - 40	274.00
45	80	46.2	LC1E50●●	LC1E50●●	LC1E40●●	LRE357	37 - 50	289.00
55	97	56	LC1E65●●	LC1E65●●	LC1E40●●	LRE359	48 - 65	296.00
75	132	76.2	LC1E80●●	LC1E80●●	LC1E65●●	LRE365	80 - 104	506.00
90	160	92.4	LC1E95●●	LC1E95●●	LC1E80●●	LRE365	80 - 104	506.00
110	195	113	LC1E120●●	LC1E120●●	LC1E95●●	LRE482	84 - 135	749.00
132	230	133	LC1E160●●	LC1E160●●	LC1E120●●	LRE483	124 - 198	846.00
160	280	162	LC1E200●●	LC1E200●●	LC1E160●●	LRE483	124 - 198	846.00
220	388	224	LC1E250●●	LC1E250●●	LC1E200●●	LRE484	146 - 234	894.00
260	480	277	LC1E300●●	LC1E300●●	LC1E250●●	LRE486	208 - 333	1,021.00

(1) To complete the reference for the contactor, please refer to note below

EasyPact TVS Contactors: see page 11-1
 Contactors for motor control, 6 to 630A in category AC-3

EasyPact TVS Thermal Overload Relays: see page 11-3
 For overload protection, used with EasyPact TVS contactors

EasyPact TVS Control Relays

Control relays and accessories
Control circuit: a.c.



Number of contacts	Composition		Basic reference Complete with code indicating control circuit voltage (1)	Price (RM)
	NO	NC		
Control relays for connection by screw clamp terminals				
4	4	-	CAE40●●	134.00
	2	2	CAE22●●	134.00
	3	1	CAE31●●	167.00

Instantaneous auxiliary contact blocks for connection by screw clamp terminals					
Number of contacts	Maximum number per device Clip-on mounting front	Composition		Reference	Price (RM)
		NO	NC		
For use in normal operation environments					
2	1	1	1	LAEN11	16.00
	1	2	-	LAEN20	21.00
	1	-	2	LAEN02	21.00
	1	2	2	LAEN22	30.00

(1) Standard control circuit voltages. For other voltages, please refer to catalogue.

a.c. supply							
Volts	24	110	220	240	380	415	440
LC1E06...300							
50Hz	B5	F5	M5	U5	Q5	N5	R5
60Hz	B6	F6	M6	-	Q6	-	R6

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App for iPad	App for iPad and iPhone	App for iPad
 	  <hr/> App for Smartphone and tablet  	 

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TeSys K Contactors

Contactors for motor control

6 to 16A in utilisation category AC-3, 6 to 12A in category AC-4

Control circuit: a.c., d.c. or low consumption

- Mounting on 35mm rail or diameter 4 screw fixing
- Screws in open "ready-to-tighten" position
- Screw clamp connections

Standard power ratings of 3-phase motors 50/60Hz in category AC-3		Rated operational current in AC-3 up to 440V	Instantaneous auxiliary contacts		Basic reference, complete with code indicating control circuit voltage (1)(2)	Price (RM)
220/230V	380/415V		N/O	N/C		

3-pole contactors for standard applications

kW	kW	A	N/O	N/C		
1.5	2.2	6	1	-	LC1K0610●●	127.00
			-	1	LC1K0601●●	127.00
2.2	4	9	1	-	LC1K0910●●	130.00
			-	1	LC1K0901●●	130.00
3	5.5	12	1	-	LC1K1210●●	254.00
			-	1	LC1K1201●●	254.00
4	7.5	16	1	-	(3) LC1K1610●●	336.00

3-pole contactors, d.c. supply

kW	kW	A	N/O	N/C		
1.5	2.2	6	1	-	LP1K0610●●	187.00
			-	1	LP1K0601●●	187.00
2.2	4	9	1	-	LP1K0910●●	205.00
			-	1	LP1K0901●●	205.00
3	5.5	12	1	-	LP1K1210●●	267.00
			-	1	LP1K1201●●	267.00

3-pole low consumption contactors (3)

kW	kW	A	N/O	N/C		
1.5	2.2	6	1	-	LP4K0610●●●	200.00
			-	1	LP4K0601●●●	200.00
2	4	9	1	-	LP4K0910●●●	214.00
			-	1	LP4K0901●●●	214.00
3.0	5.5	12	1	-	LP4K1210●●●	335.00
			-	1	LP4K1201●●●	335.00

Spring terminal connections

For 6 to 12A rating only, insert the digit 3 before the voltage code in the references selected above
Example: LC1K0610●● becomes LC1K06103●●

Auxiliary contact blocks and accessories: see page 11-10

Auxiliary contact blocks, add-on modules and accessories.

(1) Standard control circuit voltages. Others voltages refer to catalogue

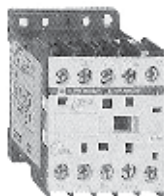
a.c. coil for contactor LC1K & LC2K (0.8...1.15 Uc)			
Volts ~	24	110	220/
50/60Hz	(2)		230
Code	B7	F7	M7

d.c. coil for contactor LP1K & LP2K (0.8...1.15 Uc)	
Volts DC	24 (2)
Code	BD

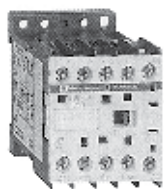
Coil for low consumption contactor LP4K & LP5K (0.7...1.30 Uc)	
Volts	24
Code	BW3

(2) For main supplies with high level of interference (voltage surge >800V), use a suppressor module LA4KE1FC (50...129V) or LA4KE1UG (130...250V).

(3) LC1K16; 0.85...1.15Uc.



LC1-K0910●●



LP1-K0910●●

TeSys K Contactors

C ontactors for control in utilisation category AC-1, 20A
Control circuit: a.c., d.c. or low consumption



LP1K0910●●



LP1K09103●●



LP1K09004●●●

- Mounting on 35mm rail or diameter 4 screw fixing
- Screws in open "ready-to-tighten" position
- Screw clamp connections

Non-inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of pole		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (1)(2)	Price (RM)
	A	N/O	N/C	N/O		

3 or 4-pole contactors for standard applications						
20	3	-	1	-	LC1K0910●●	130.00
					or LC1K1210●●	254.00
	3	-	-	1	LC1K0901●●	130.00
					or LC1K1201●●	254.00
	4	-	-	-	LC1K09004●●	130.00
or LC1K12004●●					254.00	
2	2	-	-	LC1K09008●●	130.00	

3 or 4-pole contactors, d.c. supply						
20	3	-	1	-	LP1K0910●●	205.00
					or LP1K1210●●	267.00
	3	-	-	1	LP1K0901●●	205.00
					or LP1K1201●●	267.00
	4	-	-	-	LP1K09004●●	254.00
or LP1K12004●●					267.00	
2	2	-	-	LP1K09008●●	254.00	

3 and 4-pole low consumption contactors						
20	3	-	1	-	LP4K0910●●●	214.00
					or LP4K1210●●●	335.00
	3	-	-	1	LP4K0901●●●	214.00
					or LP4K1201●●●	335.00
4	-	-	-	LP4K09004●●●	294.00	
				or LP4K12004●●●	335.00	

Spring terminal connections
For 6 to 12A rating only, insert the digit 3 before the voltage code in the references selected above
Example: LP1K0910●● becomes LP1K09103●●

Auxiliary contact blocks and accessories: see page 11-10
Auxiliary contact blocks, add-on modules and accessories.

(1) Standard control circuit voltages see page 11-7
(2) For main supplies with high level of interference (voltage surge >800V), use a suppressor module LA4KE1FC (50...129V) or LA4KE1UG (130...250V).

TeSys K Contactors

Reversing contactors for motor control
 6 to 16A in utilisation category AC-3, 6 to 12A in category AC-4
 Control circuit: a.c., d.c. or low consumption



LC2K0910●●

- Integral mechanical interlock
- Pre-wired power circuit connections as standard on screw clamp versions
- Mounting on 35mm DIN rail or diameter 4mm screw fixing
- Screws in open "ready-to-tighten" position
- Screw clamp connections

It is essential to link the contacts of the electrical interlock

Standard power ratings of 3- phase motors 50/60Hz in category AC-3 380/415V	Rated operational current in AC-3 up to 440V	Instantaneous auxiliary contacts		Basic reference, to be completd by adding the voltage code (1)	Price (RM)
kW	A	N/O	N/C		

3-pole reversing contactors for standard applications					
2.2	6	1	-	LC2K0610 ●●	290.00
		-	1	LC2K0601 ●●	290.00
4	9	1	-	LC2K0910 ●●	337.00
		-	1	LC2K0901 ●●	337.00
5.5	12	1	-	LC2K1210 ●●	625.00
		-	1	LC2K1201 ●●	625.00

3-pole reversing contactors, d.c. supply					
2.2	6	1	-	LP2K0610 ●●	453.00
		-	1	LP2K0601 ●●	453.00
4	9	1	-	LP2K0910 ●●	475.00
		-	1	LP2K0901 ●●	475.00
5.5	12	1	-	LP2K1210 ●●	747.00
		-	1	LP2K1201 ●●	747.00

Spring terminal connections
 For 6 to 12A rating only, insert the digit 3 before the voltage code in the references selected above
 Example: LC2K0610 ●● becomes LC2K06103 ●●

Auxiliary contact blocks and accessories: see page 11-10
 Auxiliary contact blocks, add-on modules and accessories.

(1) Control circuit voltage codes, see page 11-7.

TeSys K Contactor Accessories

Instantaneous auxiliary contacts

Suppressor modules incorporating LED indicator



LA1-KN••

Instantaneous auxiliary contact blocks

Type of connection	For use on contactor	Composition		Reference	Price (RM)
		N/O	N/C		
Recommended for standard applications. Clip-on front mounting. 1 block per contactor					
Screw clamps	All products with screw clamps	2	-	LA1KN20	48.00
		-	2	LA1KN02	48.00
	All products with screw clamps except low consumption	1	1	LA1KN11	48.00
		4	-	LA1KN40	67.00
		3	1	LA1KN31	67.00
		2	2	LA1KN22	67.00
		1	3	LA1KN13	67.00
		-	4	LA1KN04	67.00

Suppressor module references

Mounting and connection	Type	For voltages	Reference	Price (RM)
Clip-on fixing on the front of the contactors with locating device	Varistor (1)	a.c. and d.c. 12...24V	LA4KE1B	53.00
		a.c. and d.c. 32...48V	LA4KE1E	53.00
		a.c. and d.c. 50...129V	LA4KE1FC	53.00
		a.c. and d.c. 130...250V	LA4KE1UG	53.00
	Diode + RC (3)	d.c. 12...24V	LA4KC1B	53.00
a.c. 110...250V		LA4KA1U	53.00	



LA4-K•1•

- (1) Protection provided by limiting the transient voltage to 2 U_c max.
Maximum reduction of transient voltage peaks.
Slight increase in drop out time (1.1 to 1.5 times the normal time).
- (2) No overvoltage or oscillating frequency.
Polarised component.
Slight increase in drop out time (1.1 to 1.5 times the normal time).
- (3) Protection by limiting the transient voltage to 3 U_c max, and limitation of oscillating frequency.
Slight increase in drop out time (1.2 to 2 times the normal time).

TeSys K Thermal Overload Relays

3-pole thermal overload relays for use with TeSys K contactors
Adjustable from 0.11 to 16A



LR2-K031••

3-pole relays with screw clamp terminals (1)		
Class 10A		
Relay setting range (A)	Reference	Price (RM)
0.11 - 0.16	LR2K0301	200.00
0.16 - 0.23	LR2K0302	200.00
0.23 - 0.36	LR2K0303	200.00
0.36 - 0.54	LR2K0304	200.00
0.54 - 0.80	LR2K0305	200.00
0.80 - 1.20	LR2K0306	200.00
1.20 - 1.80	LR2K0307	200.00
1.80 - 2.60	LR2K0308	200.00
2.60 - 3.70	LR2K0310	200.00
3.70 - 5.50	LR2K0312	200.00
5.50 - 8.00	LR2K0314	200.00
8.00 - 11.5	LR2K0316	200.00
10.0 - 14.0	LR2K0321	255.00
12.0 - 16.0	LR2K0322	418.00

(1) Direct mounting under the contactor with screw clamp terminals only.
For independent mounting, use terminal block LA7K0064.

DOL Starter using Thermal Overload Relays

D.O.L starters using TeSys K contactor and thermal overload relays for overload protection

For customer assembly

DOL starters, non-reversing

This combination comprises of:

- One 3-pole TeSys K contactor,
- One overload relay.

Short-circuit protection is provided by separate magnetic motor protection circuit breaker/fuse protection.

Please see TeSys catalogue for more information.

Standard power rating of 3-phase motors 50/60Hz in AC3 400/415V	Combination comprises of :		Setting range	Combined Total Price (RM) (2)
	Contactor Basic reference to be completed with control voltage code (1)	Thermal overload relay Reference		
kW			A	
0.06	LC1K06●●●●●	LR2K0302	0.16 - 0.25	327.00
	LC1K06●●●●●	LR2K0303	0.23 - 0.36	327.00
0.09	LC1K06●●●●●	LR2K0304	0.36 - 0.54	327.00
0.18	LC1K06●●●●●	LR2K0305	0.54 - 0.8	327.00
0.37	LC1K06●●●●●	LR2K0306	0.8 - 1.2	327.00
0.55	LC1K06●●●●●	LR2K0307	1.2 - 1.8	327.00
1.1	LC1K06●●●●●	LR2K0308	1.8 - 2.6	327.00
1.5	LC1K06●●●●●	LR2K0310	2.6 - 3.7	327.00
2.2	LC1K06●●●●●	LR2K0312	3.7 - 5.5	327.00
	LC1K06●●●●●	LR2K0314	5.5 - 8.0	327.00
3	LC1K09●●●●●	LR2K0314	5.5 - 8.0	330.00
4	LC1K09●●●●●	LR2K0316	8 - 11.5	330.00
	LC1K09●●●●●	LR2K0321	10 - 14	385.00
5.5	LC1K12●●●●●	LR2K0321	10 - 14	509.00

(1) To complete the reference for the contactor, please refer to the following:-

TeSys K Contactors: see page 11-7

Contactors for motor control, 6 to 16A in category AC-3

TeSys K Thermal Overload Relays: see page 11-11

For overload protection, used with TeSys K contactors, adjustable from 0.11 to 16A

(2) Combined total price is for A.C. coil contactor only.

TeSys K Control Relays

Control relays and auxiliary contact blocks

Control circuit: a.c. or d.c.



CA2-KN40●●

Control relays (screw clamp type)

Mounting on 35mm rail or diameter 4 screw fixing
Screws in open "ready-to-tighten" position.

Supply	Control circuit consumption	Instantaneous auxiliary contacts		Basic reference, Complete with code indicating control circuit voltage (1) (2)	Price (RM)
		NO	NC		
AC	4.5VA	4	-	CA2KN40●●	171.00
		3	1	CA2KN31●●	171.00
		2	2	CA2KN22●●	171.00
DC	3W	4	-	CA3KN40●●	211.00
		3	1	CA3KN31●●	211.00
		2	2	CA3KN22●●	211.00



CA4-KN40●●●

Low consumption control relays

Supply	Control circuit consumption	Instantaneous auxiliary contacts		Basic reference, Complete with code indicating control circuit voltage (1) (2)	Price (RM)
		NO	NC		
DC	1.8W	4	-	CA4KN40●●●	244.00
		3	1	CA4KN31●●●	244.00
		2	2	CA4KN22●●●	244.00

Instantaneous auxiliary contact blocks

	Composition		Reference	Price (RM)
	NO	NC		
Clip-on front mounting, 1 block per contactor (with screw clamp terminals)	2	-	LA1KN20	48.00
	-	2	LA1KN02	48.00
	1	1	LA1KN11	48.00
	4	-	LA1KN40	67.00
	3	1	LA1KN31	67.00
	2	2	LA1KN22	67.00
	1	3	LA1KN13	67.00
	-	4	LA1KN04	67.00

CA2K control relays (0.8...1.15Uc) (0.85 ...1.1Uc)

Volts	24(2)	110	220/	230
50/60Hz			230	
Code	B7	F7	M7	P7

CA3K control relays (0.8...1.15Uc)

Volts DC	24(2)	110
Code	BD	FD

CA4K low consumption control relays (wide range coil:0.7...1.3Uc)

Volts DC	24(2)
Code	BW3

(1) Standard control circuit voltages (other voltages, please consult our Sales Office).

(2) When connecting an electronic sensor or timer in series with the coil of the control relay, select a 20V coil (a.c. code Z7, d.c. code ZD) so as to compensate for the incurred voltage drop.

TeSys D Contactors

For motor control up to 75kW at 400V, 9 to 150A in category AC-3

Pre-assembled reversing contactors for motor control up to 18.5kW at 400V

Control circuit: a.c., d.c. or low consumption



LC1D09●●



LC1D25●●



LC1D80A●●



LC1D95●●



LC1D115●●

3-pole contactors for connection by screw clamp terminals or by connectors

Standard power rating of 3-phase motors 50/60Hz in category AC-3 at $\theta \leq 60^\circ\text{C}$ 400V	Rated operational current in AC-3 up to 440V	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code (1) Fixing (2)	Price include basic reference, complete with A.C. supply coil (1) or D.C. supply coil (1) or L.C. low consumption coil (1) Price (RM)
kW	A	N/O	N/C	A.C. D.C. L.C. D Green
4	9	1	1	LC1D09●● 134.00 333.00 257.00 359.00
5.5	12	1	1	LC1D12●● 187.00 433.00 326.00 453.00
7.5	18	1	1	LC1D18●● 242.00 578.00 380.00 604.00
11	25	1	1	LC1D25●● 317.00 742.00 465.00 775.00
15	32	1	1	LC1D32●● 402.00 1,035.00 565.00 1,045.00
18.5	38	1	1	LC1D38●● 555.00 1,044.00 695.00 1,090.00
18.5	40	1	1	(3) LC1D40A●● 595.00 - - 1,147.00
22	50	1	1	(3) LC1D50A●● 809.00 - - 1,322.00
30	65	1	1	(3) LC1D65A●● 915.00 - - 1,660.00
37	80	1	1	(3) LC1D80A●● 1,216.00 - - 1,959.00
37	80	1	1	LC1D80●● 1,147.00 1,976.00 - -
45	95	1	1	LC1D95●● 1,798.00 2,464.00 - -
55	115	1	1	LC1D115●● 2,284.00 3,087.00 - -
75	150	1	1	LC1D150●● 2,812.00 3,804.00 - -

Connection by lugs or bars

Insert the digit 6 before the voltage code in the references selected above.

Example: LC1D09●● becomes LC1D096●●

Auxiliary contact blocks and accessories: see pages 11-20 to 11-22

Auxiliary contact blocks, add-on modules and accessories.

(1) Standard control circuit voltages. For other voltages please refer to catalogue.

a.c. supply

Volts 24 48 110 220 240 415

LC1D09...D150 and LC1DT20...DT80A

(D115 and D150 coils with integral suppression device fitted as standard)

50/60Hz B7 E7 F7 M7 U7 N7

d.c. supply

Volts 24 110 220

LC1D09...D65 A and LC1DT20...DT80A (coil with integral suppression device fitted as standard)

U 0.7...1.25 Uc BD FD MD

LC1D80...D95 A and LP1D80

U 0.85...1.1 Uc BD FD MD

U 0.75...1.2 Uc BW FW MW

LC1D115 and D150 (coils with integral suppression device fitted as standard)

U 0.75...1.2 Uc BD FD MD

Low consumption

Volts 24

LC1D09...D38 and LC1DT20...DT40

(coils with integral suppression device fitted as standard)

U 0.8...1.25 Uc BL

D Green Coil AC/DC or 24VDC supply

Volts 24(DC only) 24-60 48-130 100-250 250V - 415VAC / 250 - 500VDC

LC1D09...D38 and LC1D40A...D80A

BNE EHE KUE

LC1D09...D38

BNE

LC1D40A...D80A

BNE

(2) LC1D09 to D65A, LC1DT20 to DT80A: clip-on mounting on 35mm DIN rail AM1 DP or screw fixing.

LC1D80 to D95: clip-on mounting on 35mm DIN rail AM1 DP or 75mm DIN rail AM1 DL or screw fixing.

LC1D80/LP1D80 to D95 = : clip-on mounting on 75mm DIN AM1 DL rail or screw fixing.

LC1D115 and D150: clip-on mounting on 2 x 35mm DIN rails AM1 DP or screw fixing.

(3) LC1D40A to D65A: EVERLINK BTR screw connectors: hexagon socket head and control by screw clamp terminal.

TeSys D Contactors

For control in utilisation category AC-1, 25 to 200A
Control circuit: a.c., d.c. or low consumption



LC1DT20●●



LC1DT80●●



LC1D65008●●

4-pole contactors for connection by screw clamp terminals

Non inductive loads max. current utilisation cat. AC-1 at $\theta \leq 60^\circ\text{C}$	Number of pole		Instantaneous auxiliary contacts		Basic reference, Complete with code indicating control circuit voltage (1) Fixing (2)	Price include basic reference, complete with A.C. supply coil or D.C. supply coil or L.C. low consumption coil Price (RM)		
	N/O	N/C	N/O	N/C		A.C.	D.C.	L.C.
20	4	-	1	1	LC1DT20●●	233.00	441.00	656.00
	2	2	1	1	LC1D098●●	249.00	432.00	848.00
25	4	-	1	1	LC1DT25●●	246.00	479.00	685.00
	2	2	1	1	LC1D128●●	264.00	522.00	-
32	4	-	1	1	LC1DT32●●	355.00	683.00	923.00
	2	2	1	1	LC1D188●●	380.00	755.00	1,158.00
40	4	-	1	1	LC1DT40●●	457.00	875.00	1,211.00
	2	2	1	1	LC1D258●●	499.00	981.00	1,399.00
60	4	-	1	1	LC1DT60A●● (4)	945.00	1,875.00	-
	2	2	-	-	LC1D40008●●	1,036.00	-	-
					LP1D40008●●	-	1,976.00	-
80	4	-	1	1	LC1DT80A●● (4)	1,495.00	2,530.00	-
	2	2	-	-	LC1D65008●●	1,541.00	-	-
					LP1D65008●●	-	P.O.R.	-
125	4	-	-	-	LC1D80004●●	2,014.00	-	-
					LP1D80004●●	-	P.O.R.	-
	2	2	-	-	LC1D80008●●	2,248.00	-	-
200					LP1D80008●●	-	2,986.00	-
	4	-	-	-	LC1D115004●●	2,957.00	3,771.00	-

Connection by lugs or bars

Insert the digit 6 before the voltage code in the references selected above
Example: LC1DT20●● becomes LC1DT206●●

Auxiliary contact blocks and accessories: see pages 11-20 to 11-22

Auxiliary contact blocks, add-on modules and accessories.

- (1) See note (1) on page 11-14.
- (2) See note (2) on page 11-14.
- (3) Selection according to the number of operating cycles, see AC-1 curve in catalogue.
- (4) EVERLINK terminal.

*P.O.R = Price On Request

TeSys F Contactors

For motor control up to 630 kW, 115 to 1000A, in category AC-3

For control in utilisation category AC-1 (200 to 1600A)

Control circuit: a.c. or d.c.



LC1 F225



LC1 F630



LC1 F1854



LC1 F4004



LC1 F6304

3-pole contactors				
Rated-operational current in AC-3	Standard power ratings of 3-phase motors 50/60Hz in category AC-3 415V	Basic reference (1)	Price include basic reference, complete with A.C. supply coil (1) or D.C. supply coil (1)	
			A.C.	D.C.
A	kW			
115	59	LC1F115●●	3,560.00	3,575.00
150	80	LC1F150●●	3,858.00	4,040.00
185	100	LC1F185●●	4,739.00	4,890.00
225	110	LC1F225●●	6,349.00	6,377.00
265	140	LC1F265●●	7,577.00	7,857.00
330	180	LC1F330●●	8,324.00	8,683.00
400	220	LC1F400●●	10,478.00	10,465.00
500	280	LC1F500●●	13,576.00	13,565.00
630	375	LC1F630●●	18,187.00	18,105.00
780	425	LC1F780●●	(2) P.O.R.	P.O.R.
800	450	LC1F800●●	35,064.00	35,064.00
1000	630	LC1F1000●●	40,110.00	45,462.00

4-pole contactors				
Maximum current in AC-1 (up to 40°C)	Basic reference (1)	Price include basic reference, complete with A.C. supply coil (1) or D.C. supply coil (1)		
		A.C.	D.C.	
A				
200	LC1F1154●●	4,167.00	4,356.00	
250	LC1F1504●●	5,341.00	5,255.00	
275	LC1F1854●●	6,598.00	-	
315	LC1F2254●●	8,728.00	8,787.00	
350	LC1F2654●●	9,094.00	9,546.00	
400	LC1F3304●●	P.O.R.	12,591.00	
500	LC1F4004●●	13,367.00	13,425.00	
700	LC1F5004●●	P.O.R.	18,112.00	
1000	LC1F6304●●	29,361.00	P.O.R.	
1600	LC1F7804●●	45,716.00	45,951.00	

Auxiliary contact blocks: see page 11-20 and **accessories:** see page 11-21
 Auxiliary contact blocks, add-on modules and accessories.

(1) Standard control circuit voltages. For other voltages please refer to catalogue.

a.c. supply					
Volts	110	220	230	240	415
LC1F115...F780 and F1000					
40...400 Hz	F7	M7	P7	U7	N7
LC1F800					
40...400 Hz	FW	MW	MW	MW	QW

d.c. supply			
Volts	110	230	400
LC1F115...F780 and F1000			
	FD	MD	-
LC1F800			
	FW	MW	QW

(2) U7 coil is not available.
 *P.O.R = Price On Request

Reversing Contactors and Changeover Setups

3-Pole TeSys D reversing contactors for motor control
 4-Pole TeSys D change-over contactor pairs
 (3-phase + neutral distribution system)
 in category AC-3, unassembled, horizontally mounted

3-Pole Reversing contactors, kit references					
Standard power ratings of 3-phase motors 50/60Hz in category AC-3 415V		2 identical contactors supplied with coil basic reference. Complete with code indicating a.c. control circuit voltage only (1) Reference	1 Mechanical interlock without integral electrical interlock	Reference	Price (RM)
kW	A				
22	40	LC1D40A●●	LAD4CM		1,378.00
25	50	LC1D50A●●	LAD4CM		1,806.00
37	65	LC1D65A●●	LAD4CM		2,018.00
45	80	LC1D80●●	LA9D50978		2,664.00
45	95	LC1D95●●	LA9D50978		3,828.00
59	115	LC1D1156●●	LA9D11502		(3) 5,098.00

Automatic transfer switches using 4-Pole change-over contacts, kit references						
Utilisation category AC-1 Non-inductive loads operating current		2 identical contactors supplied with coil basic reference. Complete with code indicating a.c. control circuit voltage only (1) Reference	1 Reversing switch kit	2 contact blocks	Reference	Price (RM)
A						
25		LC1DT25●●	LADT9R1	LADN11		864.00
40		LC1DT40●●	LADT9R1	LADN11		1,286.00
60		LC1DT60A●●	LAD4CM	LADN11		2,196.00
80		LC1DT80A●●	LAD4CM	LADN11		3,296.00
125		LC1D80004●●	LA9D50978	LADN11		4,378.00
200		LC1D1150046●●	LA9D11502	LADN11		6,332.00

Reversing and changeover accessories: see page 11-22
 Assembly kits, interlock and power connection accessories

(1) To complete the reference for the contactor, please refer to notes below

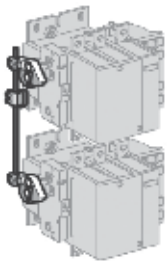
TeSys D Contactors: see page 11-15
 Contactors for motor control, 9 to 150A in category AC-3

(2) Offer is for AC coil only
 (3) Comes with integral electrical interlock

Reversing Contactors and Changeover Setups

3-Pole TeSys D reversing contactors for motor control

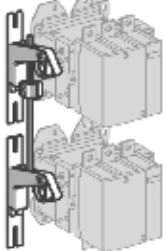
4-Pole TeSys D change-over contactor pairs (3-phase + neutral distribution system) in category AC-3, unassembled, horizontally mounted



LA9 FF4F
LA9 FG4G

3-Pole Reversing contactors, kit references

Standard power ratings of 3-phase motors 50/60Hz in category AC-3 415V		2 identical contactors supplied with coil basic reference. Complete with code indicating a.c. control circuit voltage only (1)	1 Mechanical interlock without integral electrical interlock	
kW	A	Reference	Reference	Price(RM)
22	40	LC1D40A●●	LAD4CM	1,325.00
25	50	LC1D50A●●	LAD4CM	1,731.00
37	65	LC1D65A●●	LAD4CM	1,939.00
45	80	LC1D80●●	LA9D50978	2,551.00
45	95	LC1D95●●	LA9D50978	3,669.00
59	115	LC1D1156●●	LA9D11502 (3)	4,664.00



LA9 FH4H
LA9 FJ4J
LA9 FK4K

Automatic transfer switches using 4-Pole change-over contacts, kit references

Utilisation category AC-1 Non-inductive loads operating current	2 identical contactors supplied with coil basic reference. Complete with code indicating a.c. control circuit voltage only (1)	1 Reversing switch kit	2 contact blocks	
A	Reference	Reference	Reference	Price(RM)
25	LC1DT25●●	LADT9R1	LADN11	827.00
40	LC1DT40●●	LADT9R1	LADN11	1,231.00
60	LC1DT60A●●	LAD4CM	LADN11	2,099.00
80	LC1DT80A●●	LAD4CM	LADN11	3,149.00
125	LC1D80004●●	LA9D50978	LADN11	4,175.00
200	LC1D1150046●●	LA9D11502	LADN11	6,046.00

Reversing and changeover accessories: see page 11-22

Assembly kits, interlock and power connection accessories

(1) To complete the reference for the contactor, please refer to notes below

TeSys D Contactors: see page 11-15

Contactors for motor control, 9 to 150A in category AC-3

(2) Offer is for AC coil only

(3) Comes with integral electrical interlock



LA9 FH4H
LA9 FJ4J
LA9 FK4K

TeSys D & TeSys F Contactors Accessories

Instantaneous auxiliary contact blocks



LAD-N10, N01



LAD-8N



LAD-N**



LAD-N, LAD-C

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

In order to mount an LAD8N on an LC1D80 to D95, a set of shims LA9D511 must be ordered separately.

Clip-on mounting (1)	No. of contacts per block	Composition					Reference	Price(RM)
Front	1	-	-	-	1	-	LADN10	80.00
		-	-	-	-	1	LADN01	80.00
		-	-	-	1	1	LADN11	59.00
	2	-	-	-	2	-	LADN20	59.00
		-	-	-	-	2	LADN02	59.00
		-	-	-	2	2	LADN22	105.00
		-	-	-	1	3	LADN13	105.00
		-	-	-	4	-	LADN40	105.00
		-	-	-	-	4	LADN04	105.00
	4 inc. 1N/O & 1N/C make before break	-	-	-	3	1	LADN31	105.00
		-	-	-	2	2	LADC22	109.00
		2	-	-	-	1	1	LAD8N11
	-		-	-	2	-	LAD8N20	66.00
-	-		-	-	2	LAD8N02	66.00	

(1) Maximum number of auxiliary contact blocks that can be fitted, refer catalogue for more information

Contactors Type	Number of poles & size	Instantaneous auxiliary contacts					
		Side mounted	and	Front mounted			
				1 contact	2 contacts	4 contacts	
a.c.	3P	LC1D09...D38	1 on LH side	and	-	1	or 1
		LC1D40A...D65A	1 on LH or RH side	and	-	1	or 1
		LC1D80...D95	1 on each side	or	2	and 1	or 1
	4P	LC1D115...D150	1 on LH side	and	-	1	or 1
		LC1DT20...DT40	1 on LH side	and	-	1	or 1
		LC1DT60A & DT80A	1 on LH or RH side	and	-	1	or 1
d.c.	3P	LC1D40008, D65008, D80	1 on each side	or	1	or 1	or 1
		LC1D115	1 on each side	and	1	or 1	or 1
		LC1D09...D38	-		-	1	or 1
	4P	LC1D40A...D65A	-		-	1	or 1
		LC1D80...D95	-		-	1	or 1
		LC1D115...D150	1 on LH side	and	-	1	or 1
l.c.	3P	LC1DT20...DT40	-		-	1	or 1
		LC1DT60A & DT80A	-		-	1	or 1
		LC1D40008, D65008, D80	-		2	and 1	or 1
	4P	LC1D115	1 on each side		-	and 1	or 1
		LC1D09...D38	-		-	1	-
		LC1DT20...DT40	-		-	1	-

(2) Device fitted with 4 earth screen continuity terminals.

TeSys D Contactor Accessories

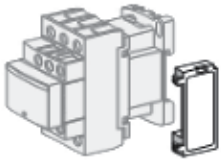
Time-delayed auxiliary contact blocks
Mechanical latch blocks
Suppressor modules



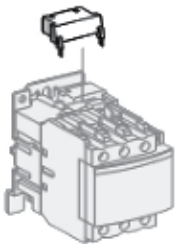
LAD T•



LA6DK10•



LAD 4••



LA4 D••

Time delay auxiliary contact blocks for connection by screw clamp terminals

For use with TeSys D or TeSys F contactor.

Maximum number of auxiliary contact blocks that can be fitted per contactor, refer to TeSys catalogue.

LADT0 and LADR0: with extended scale from 0.1 to 0.6s.

LADS2: with switching time of 40ms ± 15ms between opening of the N/C contact and closing of the N/O contact.

Clip-on mounting	Number of contacts	Time delay Type	Setting range	Reference	Price (RM)
Front	1N/O + 1N/C	On-delay	0.1...3s	LADT0	263.00
			0.1...30s	LADT2	263.00
			10...180s	LADT4	328.00
		Off-delay	1...30s	LADS2	319.00
			0.1...3s	LADR0	274.00
			0.1...30s	LADR2	274.00
			10...180s	LADR4	330.00

Mechanical latch blocks (2)

Clip-on mounting	Unlatching control	For use on contactor	Basic reference, complete with code indicating control circuit voltage (1)	Price (RM)
Front	Manual or electric	LC1D09...D38 (ac or dc)	LA6DK10•	479.00
		LC1DT20...DT40 (ac or dc) LC1D40A...D65A 3P (ac or dc) LC1DT60A & DT85A 4P (ac or dc)		
		LC1D80...D150 3P (ac) LC1D80 & D115 3P (dc) LC1D80 & D115 4P (ac) LP1D80 & LC1D115 4P (dc)	LA6DK20•	P.O.R

RC circuits (Resistor-Capacitor)

Effective protection for circuits highly sensitive to "high frequency interference"

- For use in cases whereby voltage is virtually sinusoidal i.e. less than 5% total harmonic distortion

- Voltage limited to 3 Uc max, oscillating frequency limited to 400Hz max

- Slight increase in drop-out time (1.2 to 2 times the normal time)

Mounting	For use with contactor		Reference	Price (RM)
	Rating	Type		
Clip-on side mounting (3)	LC1D09...D38 (3P)	24...48	LAD4RCE	69.00
	LC1DT20...DT40 (4P)	110...250	LAD4RCU	69.00
Clip-on side mounting (3)	LC1D40A...D65A (3P)	24...48	LAD4RC3E	102.00
	LC1DT60A...DT80A (4P)	110...250	LAD4RC3U	102.00
Screw fixing (4)	LC1D80...D150 (3P)	110 250	LA4DA2U	94.00
	LC1D40...D115 (4P)			

(1) Standard control circuit voltages.

Volts 50/60Hz,	24	110/127	220/240
Code	B	F	M

(2) The mechanical latching block must not be powered up at the same time as the contactor.

The duration of the control signal for the mechanical latching block and the contactor should be:

≥ 100ms for contactor operating on a.c. supply

≥ 250ms for contactor operating on d.c. supply

(3) Clipping-on makes the electrical connection - overall size of the contactor remains unchanged.

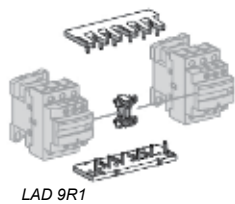
(4) Mounting at the top of the contactor on coil terminals A1 and A2.

*P.O.R = Price On Request

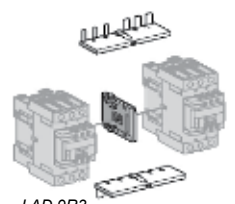
TeSys D Contactors Accessories

Component parts for assembling reversing contactors

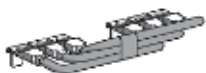
Component parts for assembling changeover contactor pairs



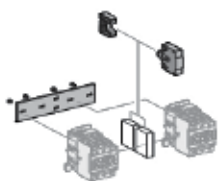
LAD 9R1



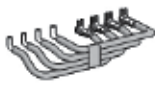
LAD 9R3



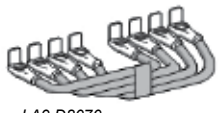
LA9 D8069



LA9 D50978



LA9 D6570



LA9 D8070

For 3-pole reversing contactors for motor control

Contactor with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Kits for assembly of reversing contactors

Description	For contactors (2 identical contactors)	Reference	Price (RM)
mechanical interlock LAD9V2 electrical interlock LAD9V1 power connection LAD9V5 (parallel) power connection LAD9V6 (reversing)	LC1D09 to D38	LAD9R1V	245.00
mechanical interlock LAD9V2 power connection LAD9V5 (parallel) power connection LAD9V6 (reversing)	LC1D09 to D38	LAD9R1	238.00
mechanical interlock LAD4CM power connection LA9D65A69	LC1D40A to D65A	LAD9R3	427.00

Mechanical Interlocks

mechanical interlock with integral electrical interlocking	LC1D80 and D95 (ac) LC1D80 and D95 (dc) LC1D115 and D150	LA9D4002 LA9D8002 LA9D11502	222.00 238.00 300.00
mechanical interlock without integral electrical interlocking	LCD09 to D38 LC1D40A to 65A LC1D80 and D95 (ac) LC1D80 and D95 (dc)	LAD9V2 LAD4CM LA9D50978 LA9D80978	120.00 188.00 232.00 P.O.R.

Sets of power connections

Comprising of	LC1D09 to D38	LAD9V5	120.00
-set of parallel bars	(screw clamp terminals)	LAD9V6	120.00
-set of reverser bars	LC1D09 to D32 (spring terminals)	LAD9V12	300.00
	LC1D40A to D65A	LA9D65A69	323.00
	LC1D80 and D95 (ac & dc)	LA9D8069	344.00
	LC1D115 and D150	LA9D11569	1,131.00

For 4-pole changeover contactor pairs

Contactor with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Kits for assembly of changeover pairs

Description	For contactors (2 identical contactors)	Reference	Price (RM)
mechanical interlock LAD9V2 electrical interlock LAD9V1 power connection (changeover) LAD9V7	LC1DT20 to DT40 screw clamps or connectors	LADT9R1V	P.O.R.
mechanical interlock LAD9V2 power connection (changeover) LAD9V7	LC1DT20 to DT40 screw clamps or connectors	LADT9R1	254.00

Mechanical Interlocks

mechanical interlock with integral electrical interlocking	LC1D80004 LP1D80004 LC1D115004	LA9D4002 LA9D8002 LA9D11502	222.00 249.00 300.00
mechanical interlock without integral electrical interlocking	LC1DT20 to DT40 LC1DT60A to DT80A LC1D80004 LP1D80004	LAD9V2 LAD4CM LA9D50978 LA9D80978	120.00 188.00 232.00 P.O.R.

Sets of power connections

set of parallel bars	LC1D80004 LP1D80004 LC1D115004	LA9D8070 LA9D8070 LA9D11570	308.00 308.00 659.00
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*P.O.R = Price On Request

TeSys D Thermal Overload Relays

3-pole thermal overload relays for use with TeSys D contactors



LRD••



LRD 3••



LRD 3•••



LRD 3••6

Differential thermal overload relays for use with fuses or magnetic circuit-breakers GV2 L and GV3 L

- Compensated relays with manual or automatic reset,
- with relays trip indicator,
- for a.c. or d.c.

Relay setting range	Fuses to be used with selected relays			For use with contactor LC1	Reference	Price (RM)
	aM	gG	BS88			
A	A	A	A			
Class 10A with connection by screw clamp terminals						
0.10...0.16	0.25	2	-	D09...D38	LRD01	168.00
0.16...0.25	0.5	2	-	D09...D38	LRD02	168.00
0.25...0.40	1	2	-	D09...D38	LRD03	168.00
0.40...0.63	1	2	-	D09...D38	LRD04	168.00
0.63...1	2	4	-	D09...D38	LRD05	169.00
1...1.6	2	4	6	D09...D38	LRD06	169.00
1.6...2.5	4	6	10	D09...D38	LRD07	168.00
2.5...4	6	10	16	D09...D38	LRD08	169.00
4...6	8	16	16	D09...D38	LRD10	169.00
5.5...8	12	20	20	D09...D38	LRD12	169.00
7...10	12	20	20	D09...D38	LRD14	169.00
9...13	16	25	25	D12...D38	LRD16	169.00
12...18	20	35	32	D18...D38	LRD21	202.00
16...24	25	50	50	D25...D38	LRD22	255.00
23...32	40	63	63	D25...D38	LRD32	334.00
30...38	50	80	80	D32...D38	LRD35	334.00

Class 10A with connection by Everlink BTR screw connectors						
9...13	16	25	25	D40A...D65A	LRD313	523.00
12...18	20	32	35	D40A...D65A	LRD318	523.00
17...25	25	50	50	D40A...D65A	LRD325	523.00
				D80...D95 (1)		
23...32	40	63	63	D40A...D65A	LRD332	523.00
				D80...D95 (1)		
30...40	50	80	80	D40A...D65A	LRD340	523.00
				D80...D95 (1)		
37...50	40	100	100	D40A...D65A	LRD350	541.00
				D80...D95 (1)		
48...65	50	100	100	D50A...D65A	LRD365	556.00
				D80...D95 (1)		
62...80	80	125	125	D80	LRD380	641.00

Class 10A with connection by screw clamp terminals or connectors						
55...70	80	125	125	D80...D95	LRD3361	671.00
63...80	80	125	125	D80...D95	LRD3363	685.00
80...104	100	160	160	D80...D95	LRD3365	766.00
80...104	125	200	160	D115...D150	LRD4365	1,299.00
95...120	125	200	200	D115...D150	LRD4367	1,460.00
110...140	160	250	200	D150	LRD4369	1,604.00
80...104	100	160	160	(2)	LRD33656	1,286.00
95...120	125	200	200	(2)	LRD33676	1,460.00
110...140	160	250	200	(2)	LRD33696	1,590.00

(1) These LRD need to be independently mount with LAD96560 to be used with D80...D95.
 (2) Independent mounting of the contactor.

TeSys D Thermal Overload Relays

3-pole thermal overload relays for use with TeSys D contactors



LRD04L



LRD05L



LRD06L



LRD07L and LR9D32



LRD08L

Differential thermal overload relays for use with fuses or magnetic circuit-breakers GV2 L and GV3 L

Relays setting range	Fuses to be used with selected relays			For use with contactor LC1	Reference	Price (RM)
	aM	gG	BS88			
A	A	A	A			
Class 20A (1) with connection by screw clamp terminals						
0.4...0.63	1	2	-	D09...D38	LRD04L	509.00
0.63...1	2	4	-	D09...D38	LRD05L	509.00
1...1.6	2	4	6	D09...D38	LRD06L	509.00
1.6...2.5	4	6	10	D09...D38	LRD07L	509.00
2.5...4	6	10	16	D09...D38	LRD08L	509.00
4...6	8	16	16	D09...D38	LRD10L	509.00
5.5...8	12	20	20	D09...D38	LRD12L	509.00
7...10	12	20	20	D09...D38	LRD14L	509.00
9...13	16	25	25	D12...D38	LRD16L	509.00
12...18	20	35	32	D18...D38	LRD21L	536.00
17...24	25	50	50	D25...D38	LRD22L	652.00
23...32	40	63	63	D25...D38	LRD32L	701.00

Class 20A (1) with connection by Everlink BTR screw connectors

17...25	32	50	50	D40A...D65A D80...D95 (2)	LRD325L	1,100.00
23...32	40	63	63	D40A...D65A D80...D95 (2)	LRD332L	1,078.00
30...40	50	80	80	D40A...D65A D80...D95 (2)	LRD340L	1,120.00
37...50	63	100	100	D40A...D65A D80...D95 (2)	LRD350L	1,120.00
48...65	80	125	125	D50A...D65A D80...D95 (2)	LRD365L	1,142.00

Class 20A (1) with connection by screw clamp terminals

55...70	100	125	125	D80 ... D95	LR2D3561	1,298.00
63...80	100	160	125	D80 ... D95	LR2D3563	1,450.00

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current I_r:

Class 20A: between 6 and 20 seconds

(2) These LRD need to be independently mount with LAD96560 to be used with D80...D95

Electronic thermal overload relays For use with fuses or magnetic circuit breakers

Relays setting range	Fuses to be used with selected relays		For use with contactor LC1	Reference	Price (RM)
	aM	gG			
A	A	A			

Classes 5.10.20.30 selected for direct connection on TeSys D contactors or connection using connectors

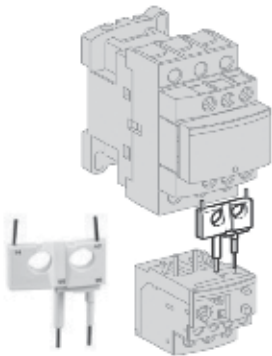
0.1...0.5			D09...D38	LR9D01	P.O.R.
0.4...2			D09...D38	LR9D02	P.O.R.
1.6...8			D09...D38	LR9D08	1,010.00
6.4...32			D09...D38	LR9D32	1,010.00
22...110					
				LR9D110S	2,012.00
60...100	100	160	D115...D150	LR9D5367	1,830.00
90...150	160	250	D115...D150	LR9D5369	2,613.00
60...100					
	125	160	D115 ... D150	LR9D5567	2,138.00
90...150					
	200	250	D115 ... D150	LR9D5569	2,850.00

*P.O.R = Price On Request

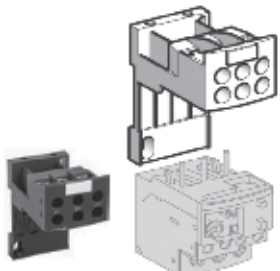
TeSys D Thermal Overload Relays Accessories

3-pole thermal overload relays for use with TeSys D contactors
Accessories

Description	For use on	Sold in lots of	Reference	Unit Price (RM)
Accessories (to be ordered separately)				
Pre-wiring kit allowing direct connection of the N/C contact of relay LRD01...35 or LR3D01...D35 to the contactor	LC1D09...D18	10	LAD7C1 (1)	P.O.R.
	LC1D25...D38	10	LAD7C2 (1)	119.00
Terminal blocks (2) for clip-on mounting on 35mm	LRD01...35 and LR3D01...D35	1	LAD7B106	66.00
	LRD1508...32	1	LAD7B105	199.00
	LRD33●●, LR3D33●●, LR2D35●●	1	LA7D3064 (3)	190.00
	LRD3●●, LRD3●●L, LR3D3●●	1	LAD96560	156.00
Everlink Terminal block for independent mounting	LRD3●●, LRD3●●L, LR3D3●●	1	LAD96560	156.00
Terminal block adaptor for mounting a relay beneath an LC1D115 or D150 contactor	LRD3●●●, LR3D3●●●, LRD35●●	1	LA7D3058 (3)	506.00
Mounting Plates (4) for screw fixing in 110mm centers	LRD3●●●, LR3D3●●●, LR2D35●●	1	LA7D902	77.00
Remote stop or electrical reset device (5)	LRD01...35 and LR3D01...D35	1	LAD703● (7)	475.00
Remote tripping or electrical reset device (5)	All relays except LRD01...35 and LR3D01...D35	1	LA7D03● (6)	P.O.R.
Block of insulated terminals	LR9D	1	LA9F103	P.O.R.



LAD 7C●

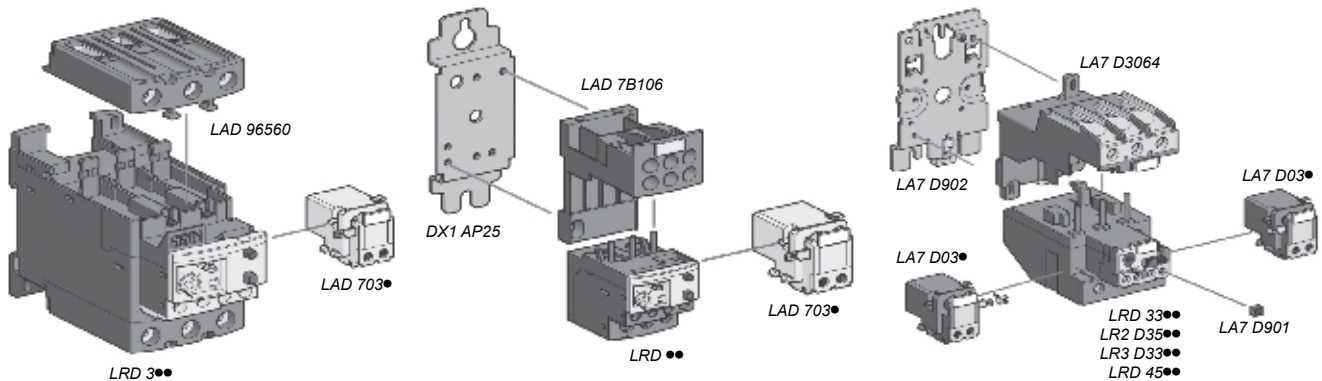


LAD 7B106

- (1) These pre-wiring kits cannot be used with reversing contactors.
- (2) Terminal blocks are supplied with terminals protected against direct finger contact and screws in the open, "ready-to-tighten" position.
- (3) To order a terminal block for connection by lugs, the reference becomes **LA7D30646**.
- (4) Do not forget to order the terminal block corresponding to the type of relay.
- (5) The time for which the coil of remote tripping or electrical resetting device **LA7D03** or **LAD703** can remain energised depends on its rest time: 1s pulse duration with 9s rest time; 5s pulse duration with 30s rest time; 10s pulse duration with 90s rest time; maximum pulse duration of 20s with a rest time of 300s. Minimum pulse time: 200ms.
- (6) Reference to be completed by adding the code indicating control circuit voltage.

Volts	24	110	220/230
50/60Hz	B	F	M
Consumption, inrush and sealed:	< 100VA		
d.c.	B	F	M
Consumption, inrush and sealed:	< 100W		

*P.O.R = Price On Request



TeSys F Electronic Thermal Overload Relays

3-pole electronic thermal overload relays
Class 10 and Class 20, adjustable from 30 to 630A

Compensated and differential overload relays

- Thermal overload relays
- Compensated and differential,
 - with relay trip indicator,
 - for a.c.,
 - for direct mounting under contactor or independent mounting (1).



LR9 F53**



LR9 F73**

Relays setting range	For direct mounting beneath contactor LC1	Reference	Price (RM)
Class 10 (2)			
30-50	F115...F185	LR9F5357	1,890.00
48-80	F115...F185	LR9F5363	1,890.00
60-100	F115...F185	LR9F5367	1,890.00
90-150	F115...F185	LR9F5369	2,052.00
132-220	F185...F400	LR9F5371	2,596.00
200-330	F225...F500	LR9F7375	3,176.00
300-500	F225...F500	LR9F7379	4,300.00
380-630	F400...F630 and F800	LR9F7381	4,672.00
Class 20 (2)			
30-50	F115...F185	LR9F5557	P.O.R.
48-80	F115...F185	LR9F5563	P.O.R.
60-100	F115...F185	LR9F5567	P.O.R.
90-150	F115...F185	LR9F5569	P.O.R.
132-220	F185...F400	LR9F5571	P.O.R.
200-330	F225...F500	LR9F7575	P.O.R.
300-500	F225...F500	LR9F7579	P.O.R.
380-630	F400...F630 and F800	LR9F7581	P.O.R.

(1) When mounting overload relays up to size LR9F5371 directly beneath the contactor, they may be additionally supported by a mounting plate. Above this size, it is always necessary to use the mounting plate. Refer to TeSys catalogue for more information.

(2) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current I_r :

Class 10: between 2 and 10 seconds

Class 20: between 6 and 20 seconds

*P.O.R = Price On Request

DOL Starter using Thermal Overload Relays

D.O.L starters using TeSys D contactor and thermal overload relays for overload protection

For customer assembly

DOL starters, non-reversing

This combination comprises of:

- One 3-pole TeSys D contactor,
- One overload relay.

Short-circuit protection is provided by separate magnetic motor protection circuit breaker/fuse protection. Please see TeSys catalogue for more information.

Standard power rating of 3-phase motors 50/60Hz in AC3 400/415V			Combination comprises of :			Combined Total Price (RM) (2)
			Contactor	Thermal overload relay		
			Basic reference to be completed with control voltage code (1)	Reference	Setting range	
kW	HP	A			A	
0.37	0.5	1	LC1D09●●	LRD06	1...1.7	303.00
0.55	0.75	1.5	LC1D09●●	LRD06	1...1.7	303.00
0.75	1	2	LC1D09●●	LRD07	1.6...2.5	302.00
1.1	1.5	2.5	LC1D09●●	LRD08	2.5...4	303.00
1.5	2	3.5	LC1D09●●	LRD08	2.5...4	303.00
2.2	3	5	LC1D09●●	LRD10	4...6	303.00
3	4	6.5	LC1D09●●	LRD12	5.5...8	303.00
3.7	5	7.5	LC1D09●●	LRD12	5.5...8	303.00
4	5.5	8.4	LC1D09●●	LRD14	7...10	303.00
5.5	7.5	11	LC1D12●●	LRD16	9...13	356.00
7.5	10	14	LC1D18●●	LRD21	12...18	444.00
9	12	17	LC1D18●●	LRD21	12...18	444.00
10	13.5	19	LC1D25●●	LRD22	16...24	572.00
11	15	21	LC1D25●●	LRD22	16...24	572.00
15	20	28	LC1D32●●	LRD32	23...32	736.00
18.5	25	35	LC1D40A●●	LRD340	30...40	1,118.00
22	30	42	LC1D50A●●	LRD350	37...50	1,350.00
25	35	47	LC1D50A●●	LRD350	37...50	1,350.00
30	40	55	LC1D65A●●	LRD365	48...65	1,471.00
33	45	60	LC1D65A●●	LRD3361	55...70	1,586.00
37	50	69	LC1D80●●	LRD3363	63...80	1,901.00
40	54	71	LC1D80●●	LRD3363	63...80	1,901.00
45	60	81	LC1D95●●	LRD3365	80...104	2,564.00
51	70	90	LC1D95●●	LRD3365	80...104	2,564.00
55	75	100	LC1D115●● LADN11	LR9D5369	90...150	4,956.00
75	100	135	LC1D150●● LADN11	LR9D5369	90...150	5,484.00

(1) To complete the reference for the contactor, please refer to the following:-

TeSys D Contactors: see page 11-14

Contactors for motor control, 9 to 150A in category AC-3

TeSys D Thermal Overload Relays: see page 11-23 to 11-24

For overload protection, used with TeSys D contactors

(2) Combined total price is for A.C. coil contactor only.

Type 1 Coordination DOL Motor Starters

D.O.L starters using thermal-magnetic motor circuit breakers for short-circuit and overload protection

For customer assembly



TeSys K with GV2 ME



TeSys D with GV2 ME

0.06 to 110kW at 400/415V: type 1 coordination

Type 1 Coordination

According to IEC 60439-4-1, type 1 coordination requires that in the event of a short circuit,

- contactor or starter must not present any danger to personnel or installation
- must not be able to resume operation without repair or replacement of parts

Standard power rating of 3-phase motors in category AC3 400/415V			Circuit-breaker		Contactor		Price (RM)
P	le	lq	Setting range of thermal trips	(1)	(1)(2)(3)	(4)	
kW	A	kA	A	Reference	Reference		
0.06	0.2	50	0.16...0.25	GV2ME02	LC1K06●●●●		406.00
					or LC1D09●●		413.00
0.09	0.3	50	0.25...0.40	GV2ME03	LC1K06●●●●		406.00
					or LC1D09●●		413.00
0.12	0.44	50	0.40...0.63	GV2ME04	LC1K06●●●●		406.00
0.18	0.6	50			or LC1D09●●		413.00
0.25	0.85	50	0.63...1	GV2ME05	LC1K06●●●●		406.00
0.37	1.1	50			or LC1D09●●		413.00
0.55	1.5	50	1...1.6	GV2ME06	LC1K06●●●●		406.00
					or LC1D09●●		413.00
0.75	1.9	50	1.6...2.5	GV2ME07	LC1K06●●●●		406.00
					or LC1D09●●		413.00
1.1	2.7	50	2.5...4	GV2ME08	LC1K06●●●●		406.00
1.5	3.6	50			or LC1D09●●		413.00
2.2	4.9	50	4...6.3	GV2ME10	LC1K06●●●●		406.00
					or LC1D09●●		413.00
3	6.5	50	6...10	GV2ME14	LC1K09●●●●		482.00
4	8.5	50			or LC1D09●●		486.00
5.5	11.5	15	9...14	GV2ME16	LC1K12●●●●		619.00
					or LC1D12●●		552.00
7.5	15.5	15	13...18	GV2ME20	LC1D18●●		607.00
9	18.1	15	17...23	GV2ME21	LC1D25●●		735.00
11	22	15	20...25	GV2ME22	LC1D25●●		790.00
15	29	10	24...32	GV2ME32	LC1D32●●		985.00
18.5	35	50	30...40	GV3P40	LC1D40A●●		1,612.00
22	41	50	37...50	GV3P50	LC1D50A●●		2,006.00
30	55	50	48...65	GV3P65	LC1D65A●●		2,279.00
37	66	50	62...73	GV3P73	LC1D80A●●		2,649.00
		100	40...80	GV4P80	LC1D80●●		4,570.00
45	80	100	65...115	GV4P115	LC1D95●●		5,255.00
55	97	100	65...115	GV4P115	LC1D115●●		5,741.00
75	132	36	70...150	GV5P150F	LC1D150●●		6,140.00
90	160	36	100...220	GV5P220F	LC1F185●●		8,426.00
110	195	36	100...220	GV5P220F	LC1F225●●		10,036.00

(1) To complete the reference for the contactor, please refer to the following:-

TeSys K Contactors: see page 11-7

Contactors for motor control, 6 to 16A in category AC-3

TeSys D Contactors: see page 11-14

Contactors for motor control, 9 to 150A in category AC-3

TeSys F Contactors: see page 11-16

Contactors for motor control, 115 to 800A in category AC-3

(2) For reversing operation, replace the reference prefix LC1 by LC2.

(3) Use combination block **GV2AF3** for connection between GV2 and contactor LC1D09...D38.

Use combination block **GV2AF01** for connection between GV2 and contactor LC1K.

(4) Price is for A.C. coil contactor only.

Type 2 Coordination DOL Motor Starters

D.O.L starters using thermal-magnetic motor circuit breakers for short-circuit and overload protection

For customer assembly



TeSys D with GV2 ME



TeSys D with GV2 P

0.06 to 110kW at 400/415V: type 2 coordination

Type 2 Coordination

According to IEC 60439-4-1, type 2 coordination requires that in the event of a short circuit,
 - contactor or starter must not present any danger to personnel or installation
 - must subsequently be able to resume operation

Standard power rating of 3-phase motors in category AC3 400/415V			Circuit-breaker		Contactor		Price (RM)
P	le	Iq	Setting range of thermal trips	(1)	(1)(2)(3)	(4)	
kW	A	kA	A	Reference	Reference		
0.06	0.2	130	0.16...0.25	GV2ME02	LC1D09●●		413.00
				or	GV2P02	LC1D09●●	438.00
0.09	0.3	130	0.25...0.40	GV2ME03	LC1D09●●		413.00
				or	GV2P03	LC1D09●●	438.00
0.12	0.44	130	0.40...0.63	GV2ME04	LC1D09●●		413.00
0.18	0.6	130		or	GV2P04	LC1D09●●	438.00
0.25	0.85	130	0.63...1	GV2ME05	LC1D09●●		413.00
0.37	1.1	130		or	GV2P05	LC1D09●●	438.00
0.55	1.5	130	1...1.6	GV2ME06	LC1D09●●		413.00
				or	GV2P06	LC1D09●●	438.00
0.75	1.9	130	1.6...2.5	GV2ME07	LC1D09●●		413.00
				or	GV2P07	LC1D09●●	438.00
1.1	2.7	130	2.5...4	GV2ME08	LC1D09●●		413.00
1.5	3.6	130		or	GV2P08	LC1D09●●	438.00
2.2	4.9	130	4...6.3	GV2ME10	LC1D09●●		413.00
				or	GV2P10	LC1D09●●	438.00
3	6.5	130	6...10	GV2ME14	LC1D09●●		486.00
4	8.5	130		or	GV2P14	LC1D09●●	518.00
5.5	11.5	130	9...14	GV2ME16	LC1D25●●		682.00
				or	GV2P16	LC1D25●●	720.00
7.5	15.5	15	13...18	GV2ME20	LC1D25●●		682.00
		50		GV2P20	LC1D25●●		720.00
9	18.1	15	17...23	GV2ME21	LC1D25●●		735.00
		50		GV2P21	LC1D25●●		773.00
11	22	15	20...25	GV2ME22	LC1D25●●		790.00
		50		GV2P22	LC1D25●●		835.00
15	29	10	24...32	GV2ME32	LC1D32●●		985.00
		50		GV2P32	LC1D32●●		1,040.00
18.5	35	50	30...40	GV3P40	LC1D50A●●		1,826.00
22	41	50	37...50	GV3P50	LC1D50A●●		2,006.00
30	55	50	48...65	GV3P65	LC1D65A●●		2,279.00
37	66	50	62...73	GV3P73	LC1D80A●●		2,649.00
		100	40...80	GV4P80	LC1D80●●		4,570.00
45	80	100	65...115	GV4P115	LC1D115●●		5,741.00
55	97	100					
75	132	70	10...150	GV5P150H	LC1D150●●		7,711.00
90	160	70	100...220	GV5P220H	LC1F185●●		10,013.00
110	195	35	100...220	GV5P220H	LC1F225●●		11,623.00

(1) To complete the reference for the contactor, please refer to the following:-

TeSys D Contactors: see page 11-14
 Contactors for motor control, 9 to 150A in category AC-3

TeSys F Contactors: see page 11-16
 Contactors for motor control, 115 to 800A in category AC-3

- (2) For reversing operation, replace the reference prefix LC1 by LC2.
- (3) Use combination block **GV2AF3** for connection between GV2 and contactor LC1D09...D38.
 Use combination block **GV2AF01** for connection between GV2 and contactor LC1K.
- (4) Price is for A.C. coil contactor only.

Star-delta Starters for Motor Control

For motors up to from 4 up to 147 kW at 415V

For customer assembly

Sub-assembly by customer for Star-Delta motor starters							
Standard power rating of 3-phase motors 415V			Star (KM1) contactor c/w 1NO+1NC aux. contacts	Delta (KM3) contactor c/w 1NO+1NC aux. contacts	Line (KM2) contactor c/w 1NO+1NC aux. Contacts & timer	Thermal overload (to be fixed on delta)	Price (RM)
kW	HP	A	Reference (1)	Reference (1)	Reference (1)	Reference (2)	(3)
4	5.5	8.4	LC1D09U7	LC1D09U7	LC1D09U7 LADS2	LRD10	890.00
5.5	7.5	11	LC1D09U7	LC1D09U7	LC1D09U7 LADS2	LRD12	890.00
7.5	10	14	LC1D09U7	LC1D09U7	LC1D09U7 LADS2	LRD14	890.00
9	12	17	LC1D09U7	LC1D12U7	LC1D12U7 LADS2	LRD16	996.00
11	15	21	LC1D09U7	LC1D12U7	LC1D12U7 LADS2	LRD16	996.00
15	20	28	LC1D12U7	LC1D18U7	LC1D18U7 LADS2	LRD21	1,192.00
18.5	25	35	LC1D12U7	LC1D25U7	LC1D25U7 LADS2	LRD22	1,395.00
22	30	40	LC1D18U7	LC1D25U7	LC1D25U7 LADS2	LRD32	1,529.00
25	35	47	LC1D25U7	LC1D32U7	LC1D32U7 LADS2	LRD32	1,774.00
30	40	55	LC1D25U7	LC1D32U7	LC1D32U7 LADS2	LRD35	1,774.00
33	45	60	LC1D25U7	LC1D38U7	LC1D38U7 LADS2	LRD35	2,080.00
37	50	66	LC1D25U7	LC1D40AU7	LC1D40AU7 LADS2	LRD340	2,349.00
40	54	71	LC1D25U7	LC1D40AU7	LC1D40AU7 LADS2	LRD350	2,367.00
45	60	80	LC1D32U7	LC1D50AU7	LC1D50AU7 LADS2	LRD350	2,880.00
51	70	90	LC1D32U7	LC1D65AU7	LC1D65AU7 LADS2	LRD365	3,107.00
55	75	100	LC1D40AU7	LC1D65AU7	LC1D65AU7 LADS2	LRD365	3,300.00
59	80	105	LC1D40AU7	LC1D65AU7	LC1D65AU7 LADS2	LRD365	3,300.00
63	85	115	LC1D40AU7	LC1D80U7	LC1D80U7 LADS2	LRD3363	4,031.00
75	100	135	LC1D50AU7	LC1D80U7	LC1D80U7 LADS2	LRD3363	4,245.00
80	110	138	LC1D50AU7	LC1D80U7	LC1D80U7 LADS2	LRD3365	4,326.00
90	125	165	LC1D65AU7	LC1D95U7	LC1D95U7 LADS2	LRD3365	5,596.00
100	136	182	LC1D65AU7	LC1D115U7	LC1D115U7 LADS2	LRD4367	7,262.00
110	150	200	LC1D80U7	LC1D150U7	LC1D150U7 LADS2	LRD4369	8,763.00
129	175	230	LC1D80U7	LC1D150U7	LC1D150U7 LADS2	LRD4369	8,763.00
140	190	250	LC1D95U7	LC1D150U7	LC1D150U7 LADS2	LR9D5369	10,354.00
147	200	260	LC1D95U7	LC1D150U7	LC1D150U7 LADS2	LR9D5369	10,354.00

(1) For other control coil voltages, please refer to

TeSys D Contactors: see page 11-14

Contactors for motor control, 9 to 150A in category AC-3

(2) For accessories to do independent mounting of thermal overload relays, please refer to

TeSys D Thermal Overload Relays: see page 11-23 to 11-24

For overload protection, used with TeSys D contactors

(3) Price for AC coil only. Selection table assumes use of 240V ac control coil voltage for all contactors

Star-delta Starters for Motor Control

For motors up to from 150 up to 500 kW at 415V

For customer assembly

Sub-assembly by customer for Star-Delta motor starters							
Standard power rating of 3-phase motors 415V	Star contactor c/w 1NO+1NC aux. Contacts		Delta contactor c/w 1NO+1NC aux. Contacts	Line contactor c/w 1NO+1NC aux. Contacts & timer	Thermal overload (to be fixed on delta)	Price (RM)	
kW	HP	Amp	Reference (1)	Reference (1)	Reference (1)	Reference (2)	
150	205	270	LC1D95U7	LC1F185U7 LADN22	LC1F185U7 LADN22 LADS2	LR9F5371	14,401.00
180	245	320	LC1D115U7	LC1F185U7 LADN22	LC1F185U7 LADN22 LADS2	LR9F5371	14,887.00
200	270	340	LC1D115U7	LC1F225U7 LADN22	LC1F225U7 LADN22 LADS2	LR9F5371	18,107.00
220	300	385	LC1D150U7	LC1F225U7 LADN22	LC1F225U7 LADN22 LADS2	LR9F5371	18,635.00
257	350	450	LC1D150U7	LC1F330U7 LADN22	LC1F330U7 LADN22 LADS2	LR9F7375	23,165.00
280	380	475	LC1F185U7 LADN22	LC1F330U7 LADN22	LC1F330U7 LADN22 LADS2	LR9F7375	25,197.00
295	400	500	LC1F185U7 LADN22	LC1F330U7 LADN22	LC1F330U7 LADN22 LADS2	LR9F7375	25,197.00
315	430	535	LC1F185U7 LADN22	LC1F330U7 LADN22	LC1F330U7 LADN22 LADS2	LR9F7375	25,197.00
335	450	550	LC1F185U7 LADN22	LC1F330U7 LADN22	LC1F330U7 LADN22 LADS2	LR9F7375	25,197.00
355	480	580	LC1F225U7 LADN22	LC1F400U7 LADN22	LC1F400U7 LADN22 LADS2	LR9F7379	32,239.00
375	500	610	LC1F225U7 LADN22	LC1F400U7 LADN22	LC1F400U7 LADN22 LADS2	LR9F7379	32,239.00
400	545	650	LC1F225U7 LADN22	LC1F400U7 LADN22	LC1F400U7 LADN22 LADS2	LR9F7379	32,239.00
425	580	690	LC1F265U7 LADN22	LC1F400U7 LADN22	LC1F400U7 LADN22 LADS2	LR9F7379	33,467.00
445	600	730	LC1F265U7 LADN22	LC1F500U7 LADN22	LC1F500U7 LADN22 LADS2	LR9F7379	39,663.00
475	645	780	LC1F265U7 LADN22	LC1F500U7 LADN22	LC1F500U7 LADN22 LADS2	LR9F7379	39,663.00
500	680	820	LC1F330U7 LADN22	LC1F500U7 LADN22	LC1F500U7 LADN22 LADS2	LR9F7379	40,410.00

(1) For other control coil voltages, please refer to

TeSys F Contactors: see page 11-16

Contactors for motor control, 115 to 800A in category AC-3

(2) For accessories to do independent mounting of thermal overload relays, please refer to

TeSys F Electronic Thermal Overload Relays: see page 11-26

For overload protection, used with TeSys F contactors

(3) Price for AC coil only. Selection table assumes use of 240V ac control coil voltage for all contactors

Auto-Transformer Starters for Motor Control

For motors up to from 8 up to 257kW at 415V

For customer assembly

Sub-assembly by customer for Auto-Transformer motor starters						
Standard power rating of 3-phase motors 415V	Line contactor c/w aux. Contacts (1)		Transformer contactor c/w timer (1)	Star contactor c/w aux. Contacts (1)	Thermal overload (to be fixed on delta) (2)	Price (RM)
kW	HP	Amp	Reference	Reference	Reference	(3)
8	10	14	LC1D18U7 LADN11	LC1D09U7 LADT2	LC1D09U7	LRD21 1,034.00
11	15	21	LC1D25U7 LADN11	LC1D09U7 LADT2	LC1D09U7	LRD22 1,162.00
15	20	28	LC1D32U7 LADN11	LC1D18U7 LADT2	LC1D09U7	LRD32 1,434.00
19	25	35	LC1D40AU7 LADN11	LC1D25U7 LADT2	LC1D09U7	LRD340 1,891.00
22	30	40	LC1D40AU7 LADN11	LC1D25U7 LADT2	LC1D09U7	LRD350 1,909.00
25	35	47	LC1D50AU7 LADN11	LC1D32U7 LADT2	LC1D09U7	LRD350 2,208.00
33	45	60	LC1D65AU7 LADN11	LC1D40AU7 LADT2	LC1D09U7	LRD365 2,522.00
37	50	66	LC1D80U7 LADN11	LC1D50AU7 LADT2	LC1D18U7	LRD3361 3,260.00
45	60	80	LC1D80U7 LADN11	LC1D50AU7 LADT2	LC1D18U7	LRD3365 3,355.00
51	70	90	LC1D95U7 LADN11	LC1D80U7 LADT2	LC1D25U7	LRD3365 4,419.00
55	75	100	LC1D115U7 LADN11	LC1D80U7 LADT2	LC1D25U7	LR9D5367 5,969.00
59	80	105	LC1D115U7 LADN11	LC1D115U7 LADT2	LC1D32U7	LR9D5369 7,905.00
75	100	132	LC1D150U7 LADN11	LC1D115U7 LADT2	LC1D50AU7	LR9D5369 8,840.00
100	136	182	LC1F185U7 LADN22	LC1D115U7 LADT2	LC1D50AU7	LR9F5371 10,796.00
110	150	205	LC1F225U7 LADN22	LC1D150U7 LADT2	LC1D80U7	LR9F5371 13,341.00
132	180	245	LC1F265U7 LADN22	LC1F185U7 LADT2 LADN11	LC1D115U7	LR9F7375 18,203.00
147	200	260	LC1F265U7 LADN22	LC1F185U7 LADT2 LADN11	LC1D115U7	LR9F7375 18,203.00
160	220	300	LC1F330U7 LADN22	LC1F265U7 LADT2 LADN11	LC1D115U7	LR9F7375 21,788.00
185	250	325	LC1F330U7 LADN22	LC1F265U7 LADT2 LADN11	LC1D115U7	LR9F7375 21,788.00
200	270	370	LC1F400U7 LADN22	LC1F330U7 LADT2 LADN11	LC1D115U7	LR9F7379 25,813.00
220	300	385	LC1F400U7 LADN22	LC1F330U7 LADT2 LADN11	LC1D115U7	LR9F7379 25,813.00
257	350	460	LC1F500U7 LADN22	LC1F400U7 LADT2 LADN11	LC1D115U7	LR9F7379 31,065.00

For notes (1), (2), & (3), please refer to page 11-33

Auto-Transformer Starters for Motor Control

For motors up to from 295 up to 375 kW at 415V

For customer assembly

Sub-assembly by customer for Auto-Transformer motor starters							
Standard power rating of 3-phase motors 415V	Line contactor c/w aux. Contacts (1)		Transformer contactor c/w timer (1)	Star contactor c/w aux. Contacts (1)	Thermal overload (to be fixed on delta) (2)	Price (RM)	
	Reference		Reference	Reference	Reference	(3)	
kW	HP	Amp					
295	400	500	LC1F500U7 LADN22	LC1F400U7 LADN11 LADT2	LC1D115U7	LR9F7379	31,065.00
300	410	510	LC1F630U7 LADN22	LC1F400U7 LADN11 LADT2	LC1D150U7	LR9F7381	36,576.00
375	500	635	LC1F800MW DR5TE4U LADN22	LC1F500U7 LADN11 LADT2	LC1F185U7	LR9F7381	60,154.00

- 1) Selection is based on 65% transformer tapping
- 2) Starting time < 15 seconds
- 3) Magnetizing current = 0.25In
- 4) No of peak starts per hour = 6 operations maximum subjected to transformer specification
- 5) Peak current at closing of KM3 < 7√2In
- 6) Starting current/ratd motor current = 6
- 7) Ambient temperature < 40°C

(1) For other control coil voltages, please refer to

TeSys D Contactors: see page 11-14

Contactors for motor control, 9 to 150A in category AC-3

TeSys F Contactors: see page 11-16

Contactors for motor control, 115 to 800A in category AC-3

(2) For accessories to do independent mounting of thermal overload relays, please refer to

TeSys D Thermal Overload Relays: see page 11-23 to 11-24

For overload protection, used with TeSys D contactors

TeSys F Electronic Thermal Overload Relays: see page 11-25

For overload protection, used with TeSys F contactors

(3) Price for AC coil only. Selection table assumes use of 240V ac control coil voltage for all contactors

Enclosed Motor Starters

D.O.L. starters for motor control
2.2 to 30kW, without isolating device



LE1 D12••

Characteristics	
Conforming to standards	IEC 60947-4-1
Degree of protection to IEC 60529	LE•D09 to D35: IP65/IK07 LE•D40A to D65A: IP65/IK09
Ambient air temperature	For operation: -5 to +40°C
Operating positions	Identical to positions for contactors
Material	LE•D09 to D35: Polycarbonate (2) LE•D40A to D65A: Sheet steel

Standard power ratings of 3-phase motors 50/60Hz in category AC-3		Max. current up to A	Basic reference, complete with code indicating control circuit voltage (1) (3)	Price (RM)
380V	415V			
kW				
Non-reversing starters				
4	4	9	LE1D09••	574.00
5.5	5.5	12	LE1D12••	755.00
7.5	9	18	LE1D18••	877.00
11	11	25	LE1D25••	1,261.00
15	15	35	LE1D35••	1,963.00
18.5	22	40	LE1D40A••	3,009.00
22	25	50	LE1D50A••	3,287.00
30	37	65	LE1D65A••	3,442.00

(1) Protection must be provided by addition of an overload relay, to be ordered separately.

TeSys D Thermal Overload Relays: see pages 11-23 & 11-24
For overload protection, used with TeSys D contactors

- (2) Avoid placing this material in contact with harsh substances (detergents, chlorinated solvents, ketones alcohol, aromatic hydrocarbons).
- (3) Standard control circuit voltages.

Volts 50/60Hz	220	230	240	415
LE1D09...D35	M7	P7	U7	N7
LE1D40A...D65A	-	P7	-	-

Enclosed Motor Starters

D.O.L. starters for motor control

0.25 to 7.5kW with 3-phase thermal overload relays



LE1-M35●●●●

Characteristics

Conforming to standards	IEC 60947-4-1
Degree of protection to IEC 529	IP 65
Ambient air temperature	For operation: -5 to +40°C
Operating positions	Identical to those for TeSys K contactors
Material	Self-extinguishing ABS

Non-reversing starters

Starter LE1M, combined with short-circuit protection components, provides type 1 or type 2 coordination, depending on the type of devices used.

Standard power ratings of 3-phase motors 50/60Hz in category AC-3 415V		Setting range of thermal overload relay LR2K (1)	Basic reference, complete with M7 220/230V indicating control circuit voltage (2)	Price (RM)
KW	HP	A		
0.37	1/2	0.8...1.2	LE1M35●●06	449.00
0.55	3/4	1.2...1.8	LE1M35●●07	449.00
0.75	1	1.8...2.6	LE1M35●●08	449.00
1.5	2	2.6...3.7	LE1M35●●10	449.00
2.2	3	3.7...5.5	LE1M35●●12	449.00
3	4	5.5...8	LE1M35●●14	449.00
4	5 ¹ / ₂	8...11.5	LE1M35●●16	449.00
5.5	7 ¹ / ₂	10...14	LE1M35●●21	449.00
7.5	10	12...16	LE1M35●●22	449.00

Description

- The standard version comprises:
 - 1 green Start button "I",
 - 1 red Stop/Reset button "O/R",
 - 1 yellow operating indicator.
- Control may be pulsed or maintained.
- An earth terminal and a neutral terminal are provided on the bottom of the enclosure.

(1) Thermal overload relay fitted as standard.

(2) The contactor coil is pre-wired between 2-phase of the power circuit.

The codes indicated below are therefore correspond to the **power circuit voltage**.

Replace ●● with below others voltage code:-

Volts	220	230	240	415
50/60Hz				
Code	M7	P7	U7	N7

Example: 380/400V 3-phase mains supply, 4kW motor: **LE1M35Q716**.

TeSys D Control Relays

TeSys D control relays and accessories
Control circuit: a.c., d.c. or low consumption



CAD

Number of contacts	Composition		Basic reference complete with code indicating control circuit voltage (1)	Price include basic reference complete with		
	NO	NC		A.C.	D.C.	L.C.
Instantaneous control relays for connection by screw clamp terminals						
5	5	-	CAD50●●	243.00	283.00	283.00
	3	2	CAD32●●	243.00	283.00	283.00

Instantaneous auxiliary contact blocks for connection by screw clamp terminals						
Number of contacts	Maximum number per device		Composition		Reference	Price (RM)
	front	side	NO	NC		
For use in normal operation environments						
2	1	-	1	1	LADN11	59.00
	-	1 on LH side	1	1	LAD8N11	66.00
	1	-	2	-	LADN20	59.00
	-	1 on LH side	2	-	LAD8N20	66.00
	1	-	-	2	LADN02	59.00
4 (2)	-	1 on LH side	-	2	LAD8N02	66.00
	1	-	2	2	LADN22	105.00
	-	-	1	3	LADN13	105.00
	-	-	4	-	LADN40	105.00
	-	-	-	4	LADN04	105.00
4 (2)	1	-	3	1	LADN31	105.00
			2	2	LADC22	109.00

Including 1 N/O and 1 N/C make before break.



LADT●

Time delay auxiliary contact blocks for connection by screw clamp terminals						
LADTO and LADR0: with extended scale from 0.1 to 0.6s.						
LADS2: with switching time of 40ms ± 15ms between opening of the N/C contact and closing of the N/O contact.						
Max. no. per device	Number of contacts	Time delay	Reference	Price (RM)		
1	Front mounting	1N/O and 1 N/C	On-delay	0.1...3s	LADT0	263.00
				0.1...30s	LADT2	263.00
				10...180s	LADT4	328.00
				1...30s	LADS2	319.00
	Off-delay		0.1...3s	LADR0	274.00	
			0.1...30s	LADR2	274.00	
			10...180s	LADR4	330.00	

Mechanical latch blocks (3)			
Max. number per device	Unlatching control	Basic reference to complete for control voltage (4)	Price (RM)
Front	Manual or electric	LA6DK10●	479.00



LAD6K10●

Coil suppressor modules (for mounting on CAD control relays)			
Type	Operational voltage	Reference	Price (RM)
RC circuits	24...48Vac	LAD4RCE	69.00
	110...240Vac	LAD4RCU	69.00
Varistors	24...48Vac	LAD4VE	72.00
	50...127Vac	LAD4VG	72.00
	110...250Vac	LAD4VU	72.00
Bidirectional peak limiting diode	24Vac	LAD4TB	P.O.R.
	72Vac	LAD4TS	P.O.R.

(1) Standard control circuit voltages (for other voltages, please consult our Sales Office).

a.c.						
Volts ~	24	110	220	230	240	
50/60Hz	B7	F7	M7	P7	U7	
d.c. (coils with built-in suppression as standard)						
Volts	24	110				
U 0.7...1.25Uc	BD	FD				
Low consumption (coils with built-in suppression as standard)						
Volts	24					
Code	BL					

(2) Blocks with 4 auxiliary contacts cannot be used on low consumption control relays.
 (3) Power should not be simultaneously applied or maintained to the mechanical latching block and the CADN.
 The duration of the control signal to the mechanical latching block and the CAD should be 100ms.
 (4) Standard control circuit voltages

Volts 50/60Hz	24	110/127	220/240	256/277	380/415
Code	B	F	M	U	Q

*P.O.R = Price On Request



LAD4RCU

GV range overview

Molded case circuit breakers for motor protection and control



GV2L GV2LE



GV2P GV2ME GV2RT



GV3L GV3P



GV4L



GV4P GV4PEM



GV5P150F



GV6P500F

GV2							
	Protection against			Range (kW / 415 V AC)	Control	Terminals	Dimensions without toggle (W x H x D)
	Short-circuits	Overload	Jam, ground fault, long start... Multifunction				
GV2L	●			0.09 to 15	Rotary handle	Screw clamp	44.5 x 89 x 97 (with rotary handle)
GV2LE	●			0.06 to 15	Toggle	Screw clamp	44.5 x 89 x 78.5 (with toggle)
GV2P	●	●		0.06 to 15	Rotary handle	Screw clamp	44.5 x 89 x 97 (with rotary handle)
GV2ME	●	●		0.06 to 11	Push button	Screw clamp, lug or spring	44.5 x 89 x 78.2 (with push button) ⁽²⁾
GV2RT	●	●		0.06 to 11	Toggle	Screw clamp	44.5 x 89 x 78.5 (with toggle)
GV3							
GV3L	●			11 to 45	Rotary handle	Lug, EverLink (BTR screw)	55 x 132 x 136 (with toggle)
GV3P	●	●		5.5 to 45			
GV4							
GV4L	●			0.25 to 55 kW	Rotary handle	Lug, EverLink (BTR screw)	81 x 156 x 116 (with toggle) 81 X 156 x 165 (with rotary handle)
GV4LE	●				Toggle		
GV4P	●	●			Rotary handle		
GV4PE	●	●			Toggle		
GV4PEM	●	●	●		Toggle		
GV4PB	●	●	●		½ to 60 HP		
GV5							
GV5P150●	●	●		55 to 110	Direct rotary handle	Lug, screw clamp	105 x 161 x 155 (with direct rotary handle) ⁽³⁾
GV5P220●	●	●					
GV6							
GV6P320●	●	●		132 to 250	Direct rotary handle	Lug, screw clamp	140 x 255x 179 (with direct rotary handle) ⁽³⁾
GV6P500●	●	●					

(1) GV2ME●●AP are specific GV2ME references for CEE zone.

(2) 44.5 x 101 x 78.2 mm for GV2ME●●3.

(3) Depth without keylock.

Thermal-Magnetic Motor Protection Circuit Breakers

For protection of motors against short circuits and overloads
up to 37kW at 400V

GV2 ME, GV2 P, GV3 P and GV3 ME



GV2 ME10

Standard power ratings of 3-phase motor 50-60Hz in category AC-3 400/415V			Setting range of thermal trips (2)	Magnetic tripping current $I_d \pm 20\%$	Reference with screw clamp terminals	Price (RM) (3)
P kW	Icu (1) kA	Ics (1) % of Icu	A	A		
Motor circuit-breakers from 0.06 to 15kW / 400V, with screw clamp terminals or lugs						
GV2 ME and GV2 ME••6 with pushbutton control						
-	-	-	0.1...0.16	1.5	GV2ME01	279.00
0.06	★	★	0.16...0.25	2.4	GV2ME02	279.00
0.09	★	★	0.25...0.40	5	GV2ME03	279.00
0.12	★	★	0.40...0.63	8	GV2ME04	279.00
0.18						
0.25	★	★	0.63...1	13	GV2ME05	279.00
0.37	★	★	1...16	22.5	GV2ME06	279.00
0.55	★	★				
0.75	★	★	1.6...2.5	33.5	GV2ME07	279.00
1.1	★	★	2.5...4	51	GV2ME08	279.00
1.5	★	★				
2.2	★	★	4...6.3	78	GV2ME10	279.00
3	★	★	6...10	138	GV2ME14	352.00
4	★	★				
5.5	15	50	9...14	170	GV2ME16	365.00
7.5	15	50	13...18	223	GV2ME20	365.00
9	15	40	17...23	327	GV2ME21	418.00
11	15	40	20...25	327	GV2ME22	473.00
15	10	50	24...32	416	GV2ME32	583.00



GV2 P10

Motor circuit-breakers from 0.06 to 15kW / 400V, with screw clamp terminals						
GV2 P: control by rotary knob						
P kW	Icu (1) kA	Ics (1) % of Icu	Setting range of thermal trips (2) A	Magnetic tripping current $I_d \pm 20\%$ A	Reference with screw clamp terminals	Price (RM) (3)
-	-	-	0.1...0.16	1.5	GV2P01	304.00
0.06	★	★	0.16...0.25	2.4	GV2P02	304.00
0.09	★	★	0.25...0.40	5	GV2P03	304.00
0.12	★	★	0.40...0.63	8	GV2P04	304.00
0.18						
0.25	★	★	0.63...1	13	GV2P05	304.00
0.37	★	★	1...16	22.5	GV2P06	304.00
0.55	★	★				
0.75	★	★	1.6...2.5	33.5	GV2P07	304.00
1.1	★	★	2.5...4	51	GV2P08	304.00
2.2	★	★	4...6.3	78	GV2P10	304.00
3	★	★	6...10	138	GV2P14	384.00
5.5	★	★	9...14	170	GV2P16	403.00
7.5	50	50	13...18	223	GV2P20	403.00
9	50	50	17...23	327	GV2P21	456.00
11	50	50	20...25	327	GV2P22	518.00
15	35	50	24...32	416	GV2P32	638.00



GV3 P65

Motor circuit-breakers from 5.5 to 30kW / 400V, connection by EverLink® connectors (4)						
GV3 P: control by rotary knob						
P kW	Icu (1) kA	Ics (1) % of Icu	Setting range of thermal trips (2) A	Magnetic tripping current $I_d \pm 20\%$ A	Reference with screw clamp terminals	Price (RM) (3)
5.5	100	50	9...13	182	GV3P13	907.00
7.5	100	50	12...18	252	GV3P18	955.00
11	100	50	17...25	350	GV3P25	965.00
15	100	50	23...32	448	GV3P32	986.00
18.5	50	50	30...40	560	GV3P40	1,017.00
22	50	50	37...50	700	GV3P50	1,197.00
30	50	50	48...65	910	GV3P65	1,364.00
37	50	50	62...73	1120	GV3P73	1,433.00
45	50	50	70...80	1120	GV3P80	1,958.00

Auxiliary contact blocks and accessories: see page 11-38 to 11-39

Auxiliary contact blocks, add-on modules and accessories.

(1) ★ > 100kA.

(2) The thermal trip setting must be within the range marked on the graduated knob.

(3) Price for GV2ME circuit breakers as stated for both types of connections.

(4) BTR screws: hexagon socket head.

(5) Recommended for use in association with a contactor.

Thermal-Magnetic Motor Protection Circuit Breakers

GV2 ME, GV2 P, GV3 P, and GV3 ME
Add-on blocks and accessories



GVAE●●



GVAU●●



GVAS●●



GV1L3

For thermal-magnetic motor circuit-breakers GV2 ME, GV2 P and GV3 P

Contact blocks							
Description	Mounting	Max. nos.	Type of contacts	Sold in lot of	Unit Reference	Price (RM)	
Instantaneous auxiliary contacts	Front (1)	1	N/O or N/C (2)	10	GVAE1	46.00	
			N/O + N/C	10	GVAE11	52.00	
			N/O + N/O	10	GVAE20	52.00	
	Side (LH)	2	N/O + N/C	1	GVAN11	52.00	
Fault signalling contact + instantaneous auxiliary contact	Side (LH)	1	N/O (fault)	+ N/O	1	GVAD1010	78.00
				+ N/C	1	GVAD1001	78.00
			N/C (fault)	+ N/O	1	GVAD0110	78.00
				+ N/C	1	GVAD0101	78.00
Short-circuit signalling contact	Side (LH)	1	C/O common point	1	GVAM11	87.00	

Electric trips - undervoltage or shunt trips (4)

Mounting	Voltage		Reference	Price (RM)
Side of circuit-breaker	24V	50Hz	GVA●025	179.00
	48V	50Hz	GVA●055	170.00
	110...115V	50Hz	GVA●115	170.00
	120...127V	50Hz	GVA●125	170.00
	220...240V	50Hz	GVA●225	179.00
	380...400V	50Hz	GVA●385	179.00
	415...440V	50Hz	GVA●415	179.00

Add-on contact blocks

Description	Mounting	Reference	Price (RM)
Limiters	At top (GV2 ME and GV2 P)	GV1L3	519.00

- (1) Mounting of a GV AE contact block or a GV2 AK00 visible isolation block on GV2 P and GV2 L
- (2) Choice of N/C or N/O contact operation, depending on how the reversible block is mounted.
- (3) The GV AD is always mounted next to the circuit-breaker.
- (4) To order an undervoltage trip: replace the dot (●) in the reference with a U, example: GV AU025.
To order a shunt trip: replace the dot (●) in the reference with an S, example: GV AS025.

Thermal-Magnetic Motor Protection Circuit Breakers

GV2 and GV3 Accessories

11



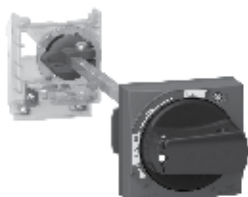
GV2AF3

Accessories				
Description	Application	Sold in lots of	Reference	Price (RM)
Combination blocks	Between GV2 and contactor LC1 K or LP1 K	10	GV2AF01	37.00
	Between GV2 and contactor LC1 D09...D38	10	GV2AF3	37.00
	Between GV2 mounted on LAD 311 and contactor LC1 D09...D38	10	GV2AF4	30.00



GV2G...

Description	Application	Pitch mm	Reference	Price (RM)
Sets of 3-pole 63A busbars (For GV2)	2 tap-offs	45	GV2G245	61.00
		54	GV2G254	72.00
		72	GV2G272	93.00
	3 tap-offs	45	GV2G345	109.00
		54	GV2G354	120.00
		4 tap-offs	45	GV2G445
5 tap-offs	54	GV2G454	165.00	
	54	GV2G554	191.00	



GV2APN...

Sets of 3-pole 115A busbars (For GV3)	2 tap-offs	64	GV3G264	280.00
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Padlockable external operators (1)			
Kit handle + mounting system		Reference	Price(RM)
For GV2 P and GV2 L	Black handle, front plate with trip status, IP54	GV2APN01	349.00
	Red handle, front plate with trip status, IP54	GV2APN02	349.00
For GV3 P and GV3 L	Black handle, front plate with trip status, IP54	GV3APN01	592.00
	Red handle, front plate with trip status, IP54	GV3APN02	592.00



GV2V03

Padlocking device			
Description		Reference	Price(RM)
For all GV2 device	For use with up to 4 padlocks, Ø 6mm shank max. (padlocks not included)	GV2V03	555.00
For all GV3 device			

Thermal-magnetic Motor Circuit Breakers

For protection of motors against short circuits and overloads
up to 55 kW at 400V
GV4P and GV4PE



GV4P



GV4PE



GV4AE11



GV4AU... / GV4AS...



GV4ADN...

P kW	Standard power ratings of 3-phase motor 50-60 Hz in category AC-3 400/415 V		Thermal setting range (I _r)	With toggle	Reference with EverLink terminals	
	I _{cu} (1) kA	I _{cs} (1) % of I _{cu} A			Price(RM)	With rotary Handle Price(RM)
Thermal magnetic motor circuit breakers from 0.25 to 5kW						
0.25...0.75	25	100	0.8...2	-	-	-
	50	100		GV4PE02N	2,766.00	GV4P02N 3,036.00
	100	100		GV4PE02S	2,903.00	-
0.55...1.5	25	100	1.4...3.5	-	-	-
	50	100		GV4PE03N	2,766.00	GV4P03N 3,042.00
	100	100		GV4PE03S	2,903.00	-
1.5...3	25	100	2.9...7	-	-	-
	50	100		GV4PE07N	2,766.00	GV4P07N 3,042.00
	100	100		GV4PE07S	2,903.00	-
3...5.5	25	100	5...12.5	-	-	-
	50	100		GV4PE12N	2,766.00	GV4P12N 3,042.00
	100	100		GV4PE12S	2,903.00	-
5.5...11	25	100	10...25	GV4PE25B	2,512.00	GV4P25B 2,763.00
	50	100		GV4PE25N	2,866.00	GV4P25N 3,044.00
	100	100		GV4PE25S	3,049.00	-
11...22	25	100	20...50	GV4PE50B	2,545.00	GV4P50B 2,763.00
	50	100		GV4PE50N	2,903.00	GV4P50N 3,108.00
	100	100		GV4PE50S	3,081.00	-
22...37	25	100	40...80	GV4PE80B	2,669.00	GV4P80B 2,844.00
	50	100		GV4PE80N	2,903.00	GV4P80N 3,194.00
	100	100		GV4PE80S	3,083.00	GV4P80S 3,354.00
37...55	25	100	65...115	GV4PE115B	2,888.00	GV4P115B 3,134.00
	50	100		GV4PE115N	2,993.00	GV4P115N 3,292.00
	100	100		GV4PE115S	3,143.00	GV4P115S 3,457.00

Connection by lugs or bars

To order circuit breakers with connection by lugs, add the digit 6 to the end of reference selected above. Example: GV4LE02N becomes GV4LE02N6.

Auxiliary contact blocks

Description	Mounting	Type of contact	Reference	Price(RM)
Auxiliary contact block for OF or SD indication	Internal plug-in	NO + NC	GV4AE11	52.00

Electric trips

Type	Mounting	Voltage	Reference	Price(RM)
Undervoltage trip	Internal plug-in	24 VAC 50/60 Hz, 24 VDC	GV4AU027	420.00
		48 VAC 50/60 Hz, 48 VDC	GV4AU057	420.00
		110-130 VAC 50/60 Hz 125 VDC	GV4AU137	420.00
		220-240 VAC 50 Hz, 208-240 VAC 60 Hz	GV4AU247	420.00
		380-415 VAC 50 Hz, 440-480 VAC 60 Hz	GV4AU415	420.00
		440-480 VAC 60 Hz	GV4AU486	420.00
Shunt trip	Internal plug-in	24 VAC 50/60 Hz, 24 VDC	GV4AS027	420.00
		48 VAC 50/60 Hz, 48 VDC	GV4AS057	420.00
		110-130 VAC 50/60 Hz 125 VDC	GV4AS137	420.00
		220-240 VAC 50 Hz, 208-240 VAC 60 Hz	GV4AS287	420.00
		380-415 VAC 50 Hz, 440-480 VAC 60 Hz	GV4AS487	420.00

Direct rotary handle

Description	Degree of protection	Type	Reference	Price(RM)
Direct mounting rotary handle	IP40	Black handle	GV4ADN01	586.00
	IP40	Red handle on yellow bezel	GV4ADN02	815.00

Thermal-magnetic Motor Circuit Breakers

For protection of motors against short circuits and overloads
up to 55 kW at 400V
GV4P and GV4PE



GV5P

Standard power ratings of 3-phase motor 50-60 Hz in category AC-3 400/415 V				Thermal setting range (Ir)	Reference	Price(RM)
P	Icu (1)	Ics (1)			With rotary Handle	
kW	kA	% of Icu	A			
Thermal-magnetic circuit breakers GV5P with screw clamp terminals up to 110 kW						
55...75	36	100	70...150	GV5P150F		3,328.00
	70	100		GV5P150H		4,899.00
90...110	36	100	100...220	GV5P220F		3,687.00
	70	100		GV5P220H		5,274.00



GV6P

Standard power ratings of 3-phase motor 50-60 Hz in category AC-3 400/415 V				Thermal setting range (Ir)	Reference	Price(RM)
P	Icu (1)	Ics (1)			With rotary Handle	
kW	kA	% of Icu	A			
Thermal-magnetic circuit breakers GV6P with screw clamp terminals up to 250 kW						
132...160	36	100	200...320	GV6P320F		5,134.00
	70	100		GV6P320H		5,726.00
200...250	36	100	250...500	GV6P500F		5,598.00
	70	100		GV6P500H		6,243.00

Auxiliary contact blocks

Type	Reference	Price(RM)
Standard	GV7AE11	213.00
Low level	GV7AB11	213.00



GV7 AE11, AB11

Electric trips

Type	Mounting	Voltage	Reference	Price(RM)
Undervoltage trip	Internal plug-in	200...240 V, 50/60 Hz	GV7AU207	407.00
		110...130 V, 50/60 Hz	GV7AS107	422.00
Shunt trip		200...240 V, 50/60 Hz	GV7AS207	422.00

Direct rotary handle

Description	Type	Model	Reference	Price(RM)
Direct rotary handle	Black handle, black legend plate	GV5	GV5AP03	169.00
	Black handle, black legend plate	GV6	GV6AP03	315.00



GV7 AU, AS



GV5AP03

Mini-VARIO and VARIO Switch Disconnectors

From 12 to 175A, complete units



VCDN ••



VCCDN ••



VBDN ••

Mini-VARIO 3-pole switch disconnectors for standard applications

- 3-pole rotary switch disconnectors, 12 to 20A
- Padlockable operating handle (padlocks not supplied)
- Degree of protection IP 65
- Fixing by 22.5mm diameter screws
- Front plate size 60 x 60mm

Rated thermal current (Ith)	Application		Main and emergency stop switch disconnectors for mounting at back of enclosure (red handle, yellow front plate) (1)		Main switch disconnector for door mounting (black handle, black front plate)		
			Price (RM)	Price (RM)	Price (RM)	Price (RM)	
A							
12	VCDN12		188.00	VCCDN12	206.00	VBDN12	188.00
20	VCDN20		204.00	VCCDN20	222.00	VBDN20	202.00

VARIO switch disconnectors for high performance applications

- 3-pole rotary switch disconnectors, 12 to 175A
- Padlockable operating handle (padlocks not supplied)
- Degree of protection IP 65
- Fixing by 22.5mm diameter screw or 4 x 5.5mm diameter screws

VARIO 3-pole switch disconnectors, for fixing by 22.5mm diameter screw

Rated thermal current (Ith)	Application		Main and emergency stop switch disconnectors for mounting at back of enclosure (red handle, yellow front plate) (1)		Main switch disconnector for door mounting (black handle, black front plate)		
			Price (RM)	Price (RM)	Price (RM)	Price (RM)	
A							
12	VCD02		260.00	VCCD02	269.00	VBD02	262.00
20	VCD01		260.00	VCCD01	P.O.R	VBD01	262.00
25	VCD0		260.00	VCCD0	269.00	VBD0	262.00
32	VCD1		283.00	VCCD1	316.00	VBD1	283.00
40	VCD2		283.00	VCCD2	316.00	VBD2	283.00

VARIO 3-pole switch disconnectors, for fixing by 4 x 5.5mm diameter screw

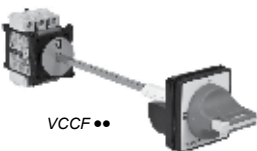
Rated thermal current (Ith)	Application		Main and emergency stop switch disconnectors for mounting at back of enclosure (red handle, yellow front plate) (1)		Main switch disconnector for door mounting (black handle, black front plate)		
			Price (RM)	Price (RM)	Price (RM)	Price (RM)	
A							
12	VCF02		262.00	VCCF02	266.00	VBF02	P.O.R
20	VCF01		262.00	VCCF01	266.00	VBF01	262.00
25	VCF0		262.00	VCCF0	266.00	VBF0	262.00
32	VCF1		283.00	VCCF1	319.00	VBF1	283.00
40	VCF2		283.00	VCCF2	319.00	VBF2	283.00
63	VCF3		405.00	VCCF3	456.00	VBF3	405.00
80	VCF4		437.00	VCCF4	491.00	VBF4	438.00
125	VCF5		1,016.00	VCCF5	1,126.00	VBF5	1,017.00
175	VCF6		1,288.00	VCCF6	1,432.00	VBF6	1,288.00

(1) Unit supplied with a shaft extension VZN17 and a door interlock plate KZ32 or KZ74.

*P.O.R = Price On Request



VCF ••



VCCF ••

Mini-VARIO and VARIO Switch Disconnectors

Switch bodies, add-on modules and auxiliary contacts



VN••

Mini-VARIO 3-pole switch disconnectors for standard applications			
Switch bodies, add-on modules and auxiliary contacts (1)			
Description	Rating (A)	Reference	Price (RM)
3-pole switch disconnecter	12	VN12	P.O.R.
switch body	20	VN20	P.O.R.
Main pole modules	12	VZN12	94.00
	20	VZN20	104.00
Neutral poles modules with early make and late break contacts	12 and 20	VZN11	P.O.R.
Earthing module	12 and 20	VZN14	P.O.R.
Auxiliary contact blocks	1 N/O late make contact	VZN05	P.O.R.
	1 N/C early break contact	VZN06	89.00



VZN••

VARIO switch disconnectors for high performance applications			
Switch bodies, add-on modules and auxiliary contacts (1)			
Description	Rating (A)	Reference	Price (RM)
3-pole switch disconnecter	12	V02	193.00
switch body	20	V01	193.00
	25	V0	203.00
	32	V1	226.00
	40	V2	258.00
	63	V3	347.00
	80	V4	P.O.R.
	125	V5	715.00
	175	V6	1,150.00
Main pole modules	12	VZ02	P.O.R.
	20	VZ01	P.O.R.
	25	VZ0	106.00
	32	VZ1	112.00
	40	VZ2	119.00
	63	VZ3	149.00
	80	VZ4	161.00
Neutral pole modules with early make and late break contacts	12 to 40	VZ11	119.00
	63 to 80	VZ12	163.00
	125 to 175	VZ13	P.O.R.
Earthing modules	12 to 40	VZ14	117.00
	63 to 80	VZ15	142.00
	125 to 175	VZ16	218.00
Auxiliary contact block modules with 2 auxiliary contacts (late make N/O, early break N/C)	N/O + N/C	VZ7	120.00
	N/O + N/O	VZ20	121.00



V0



VZ••

(1) To know maximum number of add-on modules that can be fitted to a switch body, please refer to TeSys catalogue.

(2) For standalone parts i.e. operators, shaft extensions, front plates, please refer to TeSys catalogue.

Contactors for Capacitor Bank Application

TeSys D and TeSys F contactors used for switching 3-phase capacitor banks used for power factor correction



LC1DFK11●●



LC1DWK12●●

AC-6b contactors for capbank application

AC-6b rating 12.5kVar ~ 60kVar contactors LC1D IK are designed for switching 3-phase, single or multiple-step capacitor banks; they conform to standards IEC 70 and 831, NFC 54-100, VDE 0560, UL and CSA.

Operating conditions

There is no need to use choke inductors for either single or multiple-step capacitor banks. Short-circuit protection must be provided by gG type fuses rated at 1.7...2In.

Prospective peak current at switch-on	Reference	200In
Maximum operating rate	LC1-DFK, DGK, DLK, DMK, DPK LC1-DTK, DWK	240 operating cycles/hour. 100 operating cycles/hour.
Electrical durability at rated load	All contactor rating	400V 300,000 operating cycles.
		690V 200,000 operating cycles.

Direct connection without choke inductor

Operational power at 50/60Hz (θ less than 55°C) (2)	Instantan. auxiliary contacts	Tightening torque on cable end	Basic reference. Complete with code indicating control circuit voltage (1)	Price (RM)
400V				
440V				
kVAR	N/O	N/C	N.m	
12.5	1	2	1.2	LC1DFK●● 419.00
16.7	1	2	1.7	LC1DGK●● 807.00
20	1	2	1.9	LC1DLK●● 614.00
25	1	2	2.5	LC1DMK●● 687.00
33.3	1	2	5	LC1DPK●● 1,128.00
40	1	2	5	LC1DTK●● 1,580.00
60	1	2	9	LC1DWK12●● 1,785.00

Using standard contactor LC1D and LC1F

The selections below are made based on safety factor of 1.3 and 1.1 for harmonic effects and capacitor tolerance. It is **strongly recommended to insert choke inductors** when switching on multi-stepped capacitor banks

Operational power at 50/60Hz θ ≤ 55°C (2)			Instantan. auxiliary contacts		Basic reference. Complete with code indicating control circuit voltage (1)	Price (RM)
AC1	400V max peak current	440V	N/O	N/C		
25	5	560	1	1	LC1D09●●	134.00
	11	560	1	1	LC1D12●●	187.00
32	15	850	1	1	LC1D18●●	242.00
40	20	1600	1	1	LC1D25●●	317.00
50	25	1900	1	1	LC1D32●●	402.00
60	30	2160	1	1	LC1D40A●●	595.00
	35	2160	1	1	LC1D50A●●	809.00
80	40	2160	1	1	LC1D50A●●	809.00
	45	3040	1	1	LC1D80●●	1,216.00
125	50	3040	1	1	LC1D80●●	1,216.00
	60	3040	1	1	LC1D80●●	1,216.00
	75	3100	1	1	LC1D1156●●	2,399.00
200	85	3300	1	1	LC1D1506●●	2,952.60
	100	3500	2	2	LC1F185●●	4,739.00
315	110	4000	2	2	LC1F225●●	6,349.00
350	125	5000	2	2	LC1F265●●	7,577.00

Switching of multiple-step capacitor banks (with equal or different power ratings)

The correct contactor for each step is selected from the above table, according to the power rating of the step to be switched.

Example: 50kVAR 3-step capacitor bank. Temperature: 50°C and U = 400V or 440V.
One 25kVAR step: contactor LC1-DMK, one 15kVAR step: contactor LC1-DGK and one 10kVAR step: contactor LC1-DFK.

(1) Standard control circuit voltages

Volts	220	230
50/60Hz	M7	P7

Other voltages between 24 and 440V, please consult our local representatives or agents.

(2) The average temperature over a 24-hour period, in accordance with IEC 70 and 831 is 45°C.

Automation

Relays

Zelio Relays

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Interface relays



RSB1A120** + RSZE1S35M



RSB2A080** + RSZE1S48M



RSZR215

V	Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)					
			1 C/O -12A		1 C/O -16A		2 C/O -8A	
			Reference	Per Pc Price (RM)	Reference	Per Pc Price (RM)	Reference	Per Pc Price (RM)
d.c.	12	10	RSB1A120JD	53.00	RSB1A160JD	53.00	RSB2A080JD	58.00
	24	10	RSB1A120BD	53.00	RSB1A160BD	53.00	RSB2A080BD	58.00
a.c.	24	10	RSB1A120B7	53.00	RSB1A160B7	53.00	RSB2A080B7	58.00
	48	10	RSB1A120E7	53.00	RSB1A160E7	53.00	RSB2A080E7	58.00
	120	10	RSB1A120F7	53.00			RSB2A080F7	58.00
	220	10	RSB1A120M7	53.00	RSB1A160M7	53.00	RSB2A080M7	58.00
	230	10	RSB1A120P7	53.00	RSB1A160P7	53.00	RSB2A080P7	58.00
	240	10	RSB1A120U7	53.00			RSB2A080U7	58.00

Sockets - 12A, 300V a.c.

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Reference	Per Pc Price (RM)
Separate	Connector	RSB 1A120●●	10	RSZE1S35M	42.00
		RSB 1A160●● (1)	10	RSZE1S48M	46.00
		RSB 2A080●●			

Protection modules

Description	For use with	Voltage (V)	Sold in lots of	Reference	Per Pc Price (RM)
Diode	All sockets	d.c. 6...230	10	RZM040W	14.00
RC circuit	All sockets	a.c. 24...60	10	RZM041FU7	24.00
Diode + green LED	All sockets	d.c. 6...24	10	RZM031RB	32.00
		d.c. 24...60	10	RZM031BN	32.00
Varistor + green LED	All sockets	d.c. or a.c. 6...24	10	RZM021RB	36.00
		d.c. or a.c. 24...60	10	RZM021BN	36.00
		d.c. or a.c. 110...230	10	RZM021FP	36.00

Accessories

Description	For use with	Sold in lots of	Unit reference	Per Pc Price (RM)
Plastic maintaining clamp	All sockets	10	RSZR215	7.00
Legend		10	RSZL300	6.00

(1) When using the relay with socket RSZ E1S48M, terminals must be linked. See connection schemes on catalogue page.

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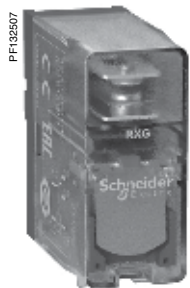
Standard cover relays with LED



RXG13RD

Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)				
		1 C/O - 10A		2 C/O - 5A		
V		Reference	Per Pc Price (RM)	Reference	Per Pc Price (RM)	
d.c.	24	10	RXG13BD	50.00	RXG23BD	56.00
a.c.	24	10			RXG23B7	70.00
	120	10			RXG23F7	70.00
	230	10	RXG13P7	63.00	RXG23P7	70.00

Clear cover relays



RXG15RD

d.c.	24	10	RXG15BD	46.00	RXG25BD	52.00
a.c.	120	10	RXG15F7	58.00		
	230	10	RXG15P7	58.00	RXG25P7	64.00

Accessories



RGZE1S48M



RZM031RB

Sockets with separate contact terminal arrangement and connector connection

Description	Thermal current (Ith)	Relay type	Sold in lots of	Reference	Per Pc Price (RM)
1 C/O socket with 1 pole	10 A	RXG1●●●	10	RGZE1S35M	27.00
2 C/O socket with 2 poles	5 A	RXG1●●●	10	RGZE1S48M	28.00

Description	For use with	Voltage	Sold in lots of	Unit reference	Per Pc Price (RM)
V					
Diode	All sockets	d.c. 6...230	10	RZM040W	14.00
RC circuit	All sockets	a.c.110...240	10	RZM041FU7	24.00

Remarks: Also available in

(1) Standard cover relays with lockable test button.

(2) Standard cover relays with lockable test button and LED.

Please consult our **Customer Care Centre** for more information.

Electromechanical Plug-in Relays

Miniature relays RXM (Premium)

Miniature relays with lockable test-button, without LED (sold in lots of 10)



RXM AB1

V	Control circuit voltage	Number and type of contacts - Thermal current (Ith)					
		2 C/O -12A		3 C/O - 10A		4 C/O - 6A	
		Unit reference	Per Pc Price (RM)	Unit reference	Per Pc Price (RM)	Unit reference	Per Pc Price (RM)
d.c.	12	RXM2AB1JD	44.00	RXM3AB1JD	42.00	RXM4AB1JD	44.00
	24	RXM2AB1BD	44.00	RXM3AB1BD	42.00	RXM4AB1BD	44.00
	24	RXM2AB1B7	42.00	RXM3AB1B7	46.00	RXM4AB1B7	47.00
a.c.	48	RXM2AB1E7	44.00	RXM3AB1E7	46.00	RXM4AB1E7	47.00
	120	RXM2AB1F7	44.00	RXM3AB1F7	46.00	RXM4AB1F7	47.00
	230	RXM2AB1P7	44.00	RXM3AB1P7	46.00	RXM4AB1P7	47.00
	240	-	-	-	-	RXM4AB1U7	47.00

Miniature relays with lockable test-button, with LED (sold in lots of 10)



RXM AB2

d.c.	12	RXM2AB2JD	45.00	RXM3AB2JD	47.00	RXM4AB2JD	47.00
	24	RXM2AB2BD	45.00	RXM3AB2BD	47.00	RXM4AB2BD	47.00
a.c.	24	RXM2AB2B7	47.00	RXM3AB2B7	51.00	RXM4AB2B7	52.00
	48	RXM2AB2E7	47.00			RXM4AB2E7	52.00
	120	RXM2AB2F7	47.00	RXM3AB2F7	51.00	RXM4AB2F7	52.00
	230	RXM2AB2P7	47.00	RXM3AB2P7	51.00	RXM4AB2P7	52.00

Accessories



RXZE2M114M

Sockets						
Contact terminal arrangement	Connection	Thermal current Ith	Relay type	Sold in lots of	Unit reference	Per Pc Price (RM)
Mixed	Screw clamp terminals	10A	RXM 2●●●(1) RXM 4●●●	10	RXZE2M114	31.00
	Connector	10A	RXM 2●●●(1) RXM 4●●●	10	RXZE2M114M	35.00
Separate	Connector	12A	RXM 2●●●	10	RXZE2S108M	33.00
		10A	RXM 3●●●	10	RXZE2S111M	34.00
		10A	RXM 4●●●	10	RXZE2S114M	38.00

Protection modules						
Description	Voltage V	For use with	Sold in lots of	Unit reference	Per Pc Price (RM)	
Diode	d.c. 6...250	All sockets	10	RXM040W	15.00	
RC circuit	a.c. 24...60	All sockets	10	RXM041BN7	32.00	
	a.c. 110...240	All sockets	10	RXM041FU7	32.00	
Varistor	a.c./d.c. 6...250	All sockets	10	RXM021RB	21.00	
	a.c./d.c. 24...60	All sockets	10	RXM021BN	21.00	
	a.c./d.c. 110...240	All sockets	10	RXM021FP	21.00	

Accessories						
Description	For use with	Sold in lots of	Unit reference	Per Pc Price (RM)		
Metal maintaining clamp	All sockets	10	RXZ400	8.00		
Plastic maintaining clamp	All sockets	10	RXZR335	7.00		
Bus jumper, 2-pole (Ith: 5A)	All sockets with separate contacts	10	RXZS2	7.00		
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	59.00		
	All sockets except RXZ E2M114	10	RXZL420	6.00		

(1) When mounting relay RXM 2●●● on socket RXZ E2M●●●●, the thermal current must not exceed 10A.

(2) Test button becomes inaccessible.



RXZ400

Electromechanical Plug-in Relays

Universal relays RUM

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Relays for standard applications, with lockable test button, without LED (sold in lots of 10)

Pins	Control circuit voltage V		Number and type of contacts - Thermal current (Ith)			
			2 C/O - 10A		3 C/O - 10A	
			Unit reference	Per Pc Price (RM)	Unit reference	Per Pc Price (RM)
Cylindrical	d.c.	12	RUMC21JD	97.00	RUMC31JD	111.00
		24	RUMC21BD	97.00	RUMC31BD	111.00
		110	RUMC21FD	97.00	RUMC31FD	111.00
	a.c.	24	RUMC21B7	95.00	RUMC31B7	109.00
		120	RUMC21F7	95.00	RUMC31F7	109.00
		230	RUMC21P7	95.00	RUMC31P7	109.00



RUMC21BD

Relays for standard applications, with LED only (sold in lots of 10)

Cylindrical	d.c.	12	RUMC22JD	102.00	RUMC32JD	117.00
		24	RUMC22BD	102.00	RUMC32BD	117.00
	a.c.	24	RUMC22B7	99.00	RUMC32B7	114.00
		120	RUMC22F7	99.00	RUMC32F7	114.00
		230	RUMC22P7	99.00	RUMC32P7	114.00



RUMC23BD

Accessories



RUC3M +
Relay RUMC3.....

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Per Pc Price (RM)
Mixed	Connector	RUM C2 ●●●●●	10	RUC3M	37.00
		RUM C3 ●●●●●	10	RUC3M	38.00
Separate	Connector	RUM C2 ●●●●●	10	RUC3M	55.00
		RUM C3 ●●●●●	10	RUC3M	56.00
		RUM F2 ●●●●●	10	RUC3M	60.00
		RUM F3 ●●●●●	10	RUC3M	60.00

Protection Modules

Description	For use with	Voltage V	Sold in lots of	Reference	Per Pc Price (RM)
Diode	All sockets	d.c. 6...250	10	RUC3M	21.00

Other Accessories

Description	For use with	Sold in lots of	Unit reference	Per Pc Price (RM)
Metal maintaining clamp	All sockets	10	RUC3M	10.00
Clip-in legends	All relays (sheet of 108 legends)	10	RUC3M	59.00



RUC3M

Electromechanical Plug-in Relays

Power relays RPM

Power relays without LED (sold in lots of 10)



RPM21BD

Control circuit voltage	Number and type of contacts - Thermal current (Ith)	1 C/O - 15A		2 C/O - 15A		3 C/O - 15A		4 C/O - 15A	
		Unit reference	Per Pc Price (RM)	Unit reference	Unit Price (RM)	Unit reference	Per Pc Price (RM)	Unit reference	Per Pc Price (RM)
d.c.	12	RPM11JD	50.00	RPM21JD	65.00	RPM31JD	89.00	RPM41JD	95.00
	24	RPM11BD	50.00	RPM21BD	65.00	RPM31BD	89.00	RPM41BD	95.00
	110	RPM11FD	50.00			RPM31FD	89.00	RPM41FD	95.00
a.c.	24	RPM11B7	60.00	RPM21B7	63.00	RPM31B7	82.00	RPM41B7	95.00
	48	RPM11E7	60.00	RPM21E7	63.00	RPM31E7	82.00	RPM41E7	95.00
	120	RPM11F7	60.00	RPM21F7	63.00	RPM31F7	82.00	RPM41F7	95.00
	230	RPM11P7	60.00	RPM21P7	63.00			RPM41P7	95.00

Power relays with LED (sold in lots of 10)



RPM22BD

d.c.	24	RPM12BD	57.00	RPM22BD	77.00	RPM32BD	110.00	RPM42BD	106.00
a.c.	24	RPM12B7	57.00	RPM22B7	74.00	RPM32B7	103.00	RPM42B7	106.00
	120	RPM12F7	57.00	RPM22F7	74.00	RPM32F7	103.00	RPM42F7	106.00
	230	RPM12P7	57.00	RPM22P7	74.00	RPM32P7	103.00	RPM42P7	106.00

Accessories



RPZF2

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Per Pc Price (RM)
Mixed	Screw clamp terminals	RPM 1 ●●●	10	RPZF1	42.00
		RPM 2 ●●●	10	RPZF2	60.00
		RPM 3 ●●●	10	RPZF3	65.00
		RPM 4 ●●●	10	RPZF4	69.00

Protection modules

Description	Voltage V	Socket type	Sold in lots of	Unit reference	Per Pc Price (RM)
Diode	d.c. 6...250	RPZF1	10	RXM040W	15.00
		RPZF2			
		RPZF3	10	RUW240BD	21.00
		RPZF4			

Other accessories

Description	For use with	Sold in lots of	Unit reference	Per Pc Price (RM)
Metal maintaining clamp (for single-pole relays)	RPZF1	10	RPZR235	12.00

3-phase supply control relays



RM17TG00

RM17 TG measurement and control relays for 3-phase supplies monitor :

- Correct sequencing of phases L1, L2 and L3 as well as the total loss of one or more of these phases.

Function	Rated 3-phase supply voltage	Output	Reference	Per Pc Price (RM)
V				
■ Phase sequence	208...480 a.c.	1 C/O 5A	RM17TG00	364.00
	208...440 a.c.	2 C/O 5A	RM17TG20	441.00

Multifunction 3-phase supply control relays



RM17 TT00



RM17 TA00



RM17 TU00



RM17 TE00



RM35 TF30

RM17 TT, RM17 TA, RM17 TU and RM17 TE multifunction control relays monitor the following on 3-phase supplies:

Function	Rated 3-phase supply voltage	Output	Reference	Per Pc Price (RM)
V				
■ Phase sequence	208...480 a.c.	1 C/O 5A	RM17TT00	371.00
■ Phase failure				
■ Phase sequence	208...480 a.c.	1 C/O 5A	RM17TA00	642.00
■ Phase failure				
■ Asymmetry				
■ Phase sequence	208...480 a.c.	1 C/O 5A	RM17TU00	565.00
■ Phase failure				
■ Undervoltage				
■ Phase sequence	208...480 a.c.	1 C/O 5A	RM17TE00	642.00
■ Phase failure				
■ Asymmetry				
■ Undervoltage and overvoltage in window mode				
■ Phase sequence	220...480 a.c.	2 C/O 5A	RM35TF30	1,015.00
■ Phase failure				
■ Asymmetry				
■ Undervoltage and overvoltage in window mode				

Voltage measurement and control relays



RM17 UB310



RM35 UB330 / RM35 UB3N30

Function	Rated 3-phase supply voltage	Output	Reference	Per Pc Price (RM)
V				
■ Overvoltage and undervoltage between phases	220...480 a.c. (phase-phase)	1 C/O +1 C/O 1 per threshold 5A	RM35UB330	1,221.00
	208...480 a.c. (phase-phase)	1 C/O 5A	RM17UB310	871.00
■ Overvoltage and undervoltage between phases and neutral	120...277 a.c. (phase-neutral)	1 C/O +1 C/O 1 per threshold 5A	RM35UB3N30	1,232.00
			■ Absence of neutral	

Control and Measurement Relays

Level / Speed / Liquid Level monitoring relays

Level control relays



RM35LM33MW

Level control relays RM35LM33MW and RM35LV14MW control one or two levels, with fill or empty function:

- RM35LM33MW: control by resistive level probe
- RM35LV14MW: control by discrete sensor

Function	Supply voltage	Output	Reference	Per Pc Price (RM)
V				
Detection by resistive probes	24...240 a.c./d.c.	2 C/O 5A	RM35LM33MW	640.00
Detection by discrete sensors	24...240 a.c./d.c.	1 C/O 5A	RM35LV14MW	723.00

Speed control relay



RM35S0MW

Speed control relay RM35 S0MW monitors:

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ■ Underspeed: <ul style="list-style-type: none"> <input type="checkbox"/> without memory, <input type="checkbox"/> with memory, <input type="checkbox"/> with inhibition by external contact S2. | <ul style="list-style-type: none"> ■ Overspeed: <ul style="list-style-type: none"> <input type="checkbox"/> without memory, <input type="checkbox"/> with memory, <input type="checkbox"/> with inhibition by external contact S2. | <ul style="list-style-type: none"> ■ A 3-wire PNP or NPN proximity sensor input, ■ A Namur proximity sensor input, ■ A 0-30V voltage input, ■ A volt-free contact input. |
|--|---|--|
- Speed control relay RM35 S0MW measures via:

Function	Supply voltage	Measurement Input	Output	Reference	Per Pc Price (RM)
V					
■ Underspeed	24...240	<ul style="list-style-type: none"> ■ 3-wire PNP or NPN proximity sensor ■ Namur proximity sensor, ■ 0-30V voltage, ■ Volt-free contact. 	1 C/O 5A	RM35S0MW	750.00
■ Overspeed	a.c./d.c.				

Liquid level control relays



Function	Time delay	Sensitivity scale	Supply voltage	Output relay	Reference	Per Pc Price (RM)
V						
■ Level1/Level2	None	5...100	24...240Vac/dc	1 C/O 8A	RM22LG11MR	544.00
■ Fill Operation			380...415Vac		RM22LG11MT	544.00
■ Empty Operation	On/Off delay 0.1...30s	250...1M	24...240Vac/dc	2 C/O 8A	RM22LA32MR	928.00

Control and Measurement Relays

Voltage monitoring relays

Current / Frequency monitoring relays

- Automatic d.c. or a.c. recognition,
- Selection between overvoltage and undervoltage,
- Selectable memory function,
- Measurement as true rms value.

Multifunction voltage control relays



Multifunction voltage control relays RM35 UA1 MW monitor both a.c. and d.c. voltages.

- Measurement ranges from 0.05V to 600V,

Function	Ranges controlled	Supply voltage	Output	Reference	Per Pc Price (RM)
	V	V			
■ Overvoltage or undervoltage	0.05...5	24...240 a.c./d.c.	2 C/O 5A	RM35UA11MW	753.00
	1...100	24...240 a.c./d.c.	2 C/O 5A	RM35UA12MW	753.00
	15...600	24...240 a.c./d.c.	2 C/O 5A	RM35UA13MW	763.00

Single-phase and d.c. voltage measurement and control relays



RM17UAS14 / RM17UAS15 / RM17UAS16
RMUBE15 / RMUEB16

Single-phase and d.c. voltage measurement and control relays RM17UAS and RM17UBE monitor the following:

Function	Ranges controlled	Nominal voltage	Output	Reference	Per Pc Price (RM)
	V	V			
■ Overvoltage or undervoltage	9...15 d.c.	12 d.c.	1 C/O 5A	RM17UAS14	533.00
	20...80 a.c./d.c.	24...48 a.c./d.c.	1 C/O 5A	RM17UAS16	533.00
	65...260 a.c./d.c.	110...240 a.c./d.c.	1 C/O 5A	RM17UAS15	533.00
■ Overvoltage and undervoltage	20...80 a.c./d.c.	24...48 a.c./d.c.	1 C/O 5A	RM17UBE16	585.00
	65...260 a.c./d.c.	110...240 a.c./d.c.	1 C/O 5A	RM17UBE15	407.00

Current monitoring relays



The control relay RM17 JC00MW is designed to monitor a.c. currents.

- Integrated current transformer,
- Measurement range 2...20A,
- Choice of action on the output relays.

Function	Supply voltage	Measurement range	Output	Reference	Per Pc Price (RM)
	V	A			
■ Overcurrent	24...240 a.c./d.c.	2...20	1 C/O 5A	RM17JC00MW	606.00

Multifunction current monitoring relays



Multifunction current control relays RM35 JA3 MW monitor both a.c. and d.c. currents.

- Measurement ranges from 2mA to 15A,

Function	Range controlled	Supply voltage	Output	Reference	Per Pc Price (RM)
		V			
■ Overcurrent or overvoltage	2...500mA	24...240 a.c./d.c.	2 C/O 5A	RM35JA31MW	1,002.00
	0.15...15A	24...240 a.c./d.c.	2 C/O 5A	RM35JA32MW	1,014.00

Frequency monitoring relays



Frequency control relay RM35HZ monitors frequency variations on 50 or 60Hz a.c. supplies:

- Over-frequency and under-frequency with two independent relay outputs.
- Selectable memory function.

Function	Range controlled	Supply voltage	Output	Reference	Per Pc Price (RM)
	Hz	V			
Over-frequency and under-frequency 50 or 60Hz	40...60Hz (50Hz) / 50...70Hz (60Hz)	120...277 ac	1 C/O + 1 C/O 5A	RM35HZ21FM	1,211.00

Control and Measurement Relays

Lift / Pump / Motor monitoring relays

Lift motor room temperature monitoring



Measurement and control relays RM35 ATL0MW, RM35 ATR5MW and RM35 ATW5MW in compliance with directive EN81.

- PT 100 input,
- Adjustable control around 5°C and 40°C,
- Independent adjustment of high and low thresholds,
- Possibility of integrated phase control.

Function	Supply voltage	3-phase control	Output	Reference	Per Pc Price (RM)
	V	V			
■ Over-temperature: 34...46°C	24...240	-	1 C/O 5A	RM35ATL0MW	834.00
■ Under-temperature: -1...11°C	a.c./d.c.	-	2 N/O 5A	RM35ATR5MW	852.00

Pump protection current monitoring + 3-phase monitoring



Measurement and control relay RM35 BA10 is used for control and monitoring of 3-phase and single-phase pumps. It monitors:

- The sequence of phases L1, L2 and L3,
- The absence of one or more phases,
- Undercurrent for protection against running empty,
- Overcurrent for protection against overload.

Function	Current range controlled	Supply voltage	Output	Reference	Per Pc Price (RM)
	A	V			
3-phase:	1...10	208...480	1 C/O 5A	RM35BA10	931.00
■ Phase sequence		a.c.			
■ Phase failure		3-phase			
■ Overcurrent and undercurrent control		230			
Single-phase:		a.c.			
■ Overcurrent and undercurrent control		single-phase			

Motor protection winding temperature monitoring + 3-phase monitoring



RM35TM50MW

Motor temperature measurement and control relays RM35TM50MW and RM35TM250MW monitor the following, on 3-phase supplies: correct sequencing of phases L1, L2 and L3, phase failure and motor temperature via PTC probes (with or without memory).

Function	Supply voltage	3-phase supply voltage	Output	Reference	Per Pc Price (RM)
	V	V			
■ Phase sequence	24...240	208...480	2 N/O	RM35TM50MW	868.00
■ Phase failure	a.c./d.c.	a.c.	5A		
■ Motor temperature via PTC probe					
■ Phase sequence	24...240	208...480	2 N/O	RM35TM250MW	856.00
■ Phase failure	a.c./d.c.	a.c.	5A		
■ Motor temperature via PTC probe					
■ Selection (with or without memory)					
■ "Test/Reset" button					

Control and Measurement Relays

Multifunction 3-phase control relays

RM22TA, RM22TU, RM22TR, and RM22TG

Multifunction 3-phase control relays

RM22 Zelio multifunction control relays monitor the following functions on 3-phase supplies



RM22TA

Functions	RM22TA	RM22TU	RM22TR	RM22TG
Sequence of phases L1, L2 and L3				
Phase loss				
Asymmetry				
Undervoltage				
Overvoltage and undervoltage				

■ Function performed
 □ Function not performed

References

Function	Rated 3-phase supply voltage		Measurement range	Time delay	Output	Reference	Per Pc Price (RM)
	V	V					
■ Phase sequence	200...240	200...240	200...240	Off delay (0.1...30 s)	2 C/O 8 A	RM22TA31	436.00
■ Phase failure							
■ Asymmetry	380...480	380...480	380...480	Off delay (0.1...30 s)	2 C/O 8 A	RM22TA33	791.00
■ Phase sequence	200...240	200...240	200...240	On/Off delay (0.1...30 s)	2 C/O 8 A	RM22TR31	946.00
■ Phase failure							
■ Undervoltage and overvoltage	380...480	380...480	380...480	On/Off delay (0.1...30 s)	2 C/O 8 A	RM22TR33	987.00
■ Phase sequence	200...240	200...240	200...240	No	2 C/O 8 A	RM22TU21	553.00
■ Phase failure							
■ Undervoltage	380...480	380...480	380...480	No	2 C/O 8 A	RM22TU23	561.00
■ Phase sequence	208...480	183...528	183...528	No	2 C/O 8 A	RM22TG20	256.00
■ Phase failure							

1-phase or DC voltage control relays

RM22UA and RM22UB 1-phase or DC voltage control relays monitor the following functions:



RM22UA

Functions	RM22	UA2-MR	UA3-MR	UA33MT	UB34
Overvoltage (without memory)					
Undervoltage (with / without memory)					
Overvoltage (with / without memory)					
Overvoltage and undervoltage (windows Mode)					

■ Function performed
 □ Function not performed

References

Function	Rated 3-phase supply voltage		Measurement range		Time delay	Output	Reference	Per Pc Price (RM)
	V	V	V	V				
■ Overvoltage without memory	24...240	~	0.05...5	~	No	2 C/O 8 A	RM22UA21MR	805.00
	24...240	~	1...100	~	No	2 C/O 8 A	RM22UA22MR	805.00
	24...240	~	15...500	~	No	2 C/O 8 A	RM22UA23MR	805.00
■ Overvoltage and undervoltage with/without memory	24...240	~	0.05...5	~	Off delay (0.1...30 s)	2 C/O 8 A	RM22UA31MR	1,004.00
	24...240	~	1...100	~	Off delay (0.1...30 s)	2 C/O 8 A	RM22UA32MR	1,004.00
■ Overvoltage and undervoltage with memory window	24...240	~	15...500	~	Off delay (0.1...30 s)	2 C/O 8 A	RM22UA33MR	1,016.00
	380...415	~	15...500	~	Off delay (0.1...30 s)	2 C/O 8 A	RM22UA33MT	1,153.00
■ -Overvoltage and undervoltage without memory	110...240		80...300		On/Off delay (0.1...30 s)	2 C/O 8 A	RM22UB34	1,019.00



RM22UB34

Control and Measurement Relays

Current control relays



RM22JA21MR



RM22JA31MR



RM35JA32MR



RM35JA32MT

Current control relays

RM22JA and RM35JA multifunction current control relays monitor the following functions:

Functions	RM22JA21MR	RM22JA31MR	RM35JA32MR/32MT
Overcurrent (without memory)			
Overcurrent (with / without memory)			
Undercurrent (with / without memory)			
Overcurrent and undercurrent (with / without memory) (windows Mode)			

Function performed
 Function not performed

References

Function	Rated 3-phase supply voltage	Measurement range	Time delay	Output	Reference	Per Pc Price (RM)
	V	V				
■ Overcurrent without memory	24...240 \sphericalangle	4mA...1A \sphericalangle	No	2 C/O 8 A	RM22JA21MR	793.00
■ Overcurrent with/without memory	24...240 \sphericalangle	4mA...1A \sphericalangle	No	2 C/O 8 A	RM22JA31MR	883.00
■ Undercurrent with/without memory	24...240 \sphericalangle	150mA...15A \sphericalangle	Off delay (0.1...30 s)	2 C/O 8 A	RM35JA32MR	893.00
■ Overcurrent and undercurrent (windows mode) with/without memory	380...415~	150mA...15A \sphericalangle	Off delay (0.1...30 s)	2 C/O 8 A	RM35JA32MT	1,034.00

Timing Relays

Modular relays with solid state
or relay output, width 17.5 mm

Solid state output

- Multifunction, dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- Solid state output: 0.7A
- Screw terminals



RE17LAMW

RE17L•BM

Modular relays with solid state output 0.7A

Functions	Time range	Function	Supply voltages (V)	Reference	Per Pc Price (RM)		
Single function	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A	24V... 240V ac/dc	RE17LAMW	248.00		
		H	24V... 240V ac	RE17LHBM	280.00		
		C	24V... 240V ac	RE17LCBM	294.00		
Dual function	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	L, Li	24V... 240V ac	RE17LLBM	280.00		
		Multifunction	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	24V... 240V ac	RE17LMBM	322.00

Relay output, 1 C/O contact

- Dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- 1 relay output: 8A
- Screw terminals
- State indication by 1 LED
- Option of supplying a load in parallel
- 3-wire sensor control option



RE17R••U

RE17RMMWS

Modular relays with relay output, 1 C/O contact

Functions	Time range	Function	Supply voltages (V)	Reference	Per Pc Price (RM)		
Single function	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	B	24V dc	RE17RBMU	223.00		
		C	24V... 240V ac	RE17RCMU	223.00		
			24V dc				
			24V... 240V ac				
			24V... 240V ac				
Dual function	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At	24V dc	RE17RAMU	192.00		
		H, Ht	24V... 240V ac	RE17RHMU	223.00		
			24V dc				
		L, Lt	24V... 240V ac	RE17RLMU	343.00		
			24V dc				
		Multifunction	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h	A, At, B, C, H, Ht, D, Di, Ac, Bw	12V ac/dc	RE17RMJU	318.00
					24V dc	RE17RMMU	319.00
				Ad, Ah, N, O, P, Pt, T, Tt, W	24V... 240V ac	RE17RMMW	322.00
					24V dc		
					24V... 240V ac		
Single function	1 s, 10 s, 1 min, 10 min, 1 h, 10 h,	A, At, B, C, H, Ht, D, Di,	24V dc	RE17RMEMU	287.00		
			24V... 240V ac				

Zelio Timer Relays

Modular single, dual or multifunction relays with diagnostic button and dial pointer, relay output, width 22.5 mm/0.886 in.

Output 1 C/O and 2 C/O contacts

- Multifunction, dual function,
- Multiple timing ranges (up to 10 switchable ranges)
- Multivoltage
- 1 or 2 relay outputs: 8 A - 250 V
- Screw terminals
- State indication by LED
- Option of supplying a load in parallel
- 3-wire sensor control option
- Diagnostic button (1) and dial pointer
- LED indicator



RE22R2QTMR



RE22R2KMR



RE22R2QEMR



RE22R2HMR



RE22R1MYMR

References

Single function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Per Pc Price (RM)
V					
10 selectable timing ranges 1s, 3s, 10s, 30s, 100s, 300s, 30min, 300min, 30h, 300h	Ac	2	24V... 240V ac/dc	RE22R2ACMR	686.00
	Qg	2	24V... 240V ac/dc	RE22R2QGMR	509.00
	Qt	2	24V... 240V ac/dc	RE22R2QTMR	511.00
7 selectable timing ranges 1s, 3s, 10s, 30s, 100s, 300s, 10min	K	1	24V... 240V ac/dc	RE22R1KMR (1) (2)	595.00
		2	24V... 240V ac/dc	RE22R2KMR (1) (2)	728.00
7 selectable timing ranges 0.5s, 1s, 3s, 10s, 30s, 100s, 300s	Qc	1	24V... 240V ac 24V dc	RE22R1QCMU	217.00
	Single range selection 30s	Qe	2	24V... 240V ac/dc	RE22R2QEMR
		2	380V...415V ac	RE22R2QEMT	257.00

Dual function

Timing ranges	Functions	No. of relay outputs	Voltages	Reference	Per Pc Price (RM)
V					
10 selectable timing ranges 1s, 3s, 10s, 30s, 100s, 300s, 30min, 300min, 30h, 300h	A, Aw	1	24V... 240V ac/dc	RE22R1AMR	409.00
		2	24V... 240V ac/dc	RE22R2AMR	546.00
	C, Ct	1	24V... 240V ac/dc	RE22R1CMR	466.00
		2	24V... 240V ac/dc	RE22R2CMR	594.00
	Ac, Act	1	24V... 240V ac/dc	RE22R1ACMR	637.00
	Ak, Akt	1	24V... 240V ac/dc	RE22R1AKMR	772.00
	D, Dw	1	24V... 240V ac/dc	RE22R1DMR	489.00
		2	24V... 240V ac/dc	RE22R2DMR	602.00
	H, Hw	1	24V... 240V ac/dc	RE22R1HMR	432.00
		2	24V... 240V ac/dc	RE22R2HMR	582.00
7 selectable timing ranges 0.5s, 1s, 3s, 10s, 30s, 100s, 300s	Wt, W	1	24V... 240V ac/dc	RE22R2MWMR	518.00
	K, He	1	24V... 240V ac/dc	RE22R1MKMR (1) (2)	395.00
10 selectable timing ranges 1s, 3s, 10s, 30s, 100s, 300s, 30min, 300min, 30h, 300h	A, At, Aw	1	24V... 240V ac/dc	RE22R1MAMR	496.00
	A, At, Aw, Ac, Act, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, W, Wt,	1	24V... 240V ac/dc	RE22R1MYMR	626.00
	A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, Qg, Qgt, Qt, Qtt, W, Wt	2	24V... 240V ac/dc	RE22R2MYMR	697.00
	L, Li, Lt, Lit	1	24V... 240V ac/dc	RE22R1MLMR	

(1) The diagnostic button is not available for the K function related references (RE22R1KMR, RE22R2KMR, and RE22R1MKMR). 657.00

(2) 1 or 2 relay outputs: 5 A - 250 V

Timing Relays

Miniature plug-in relays, relays output

Relay output, 2 and 4 C/O contacts

- Miniature and plug-in (21 x 27mm)
- Function A : on-delay
- 7 timing ranges: 0.1 s to 100 h
- Excellent immunity to interference
- Power on and relay energised indication by 2 LEDs



RE XL4TM●●



RE XL2TM●●

Timing ranges	7 switchable ranges	0.1 s...1 s - 1 s...10 s - 0.1 min...1 min - 1 min...10 min - 0.1 h...1 h - 1 h...10 h - 10 h...100 h			
Relay output		4 timed C/O contacts	2 timed C/O contacts		
Rated current	a.c. 5A	Reference	Price per pc (RM)	Reference	Price per pc (RM)
Voltagess	d.c. 12V	REXL4TMJD		REXL2TMJD	297.00
	d.c. 24V (1)	REXL4TMBD	307.00	REXL2TMBD	259.00
	a.c. 24V 50/60Hz (1)	REXL4TMB7	294.00	REXL2TMB7	260.00
	a.c. 120V 50/60Hz	REXL4TMF7	298.00	REXL2TMF7	257.00
	a.c. 230V 50/60Hz	REXL4TMP7	294.00	REXL2TMP7	258.00
Sockets (2) with mixed contact terminals (3)	With screw clamp terminals (5)	RXZE2M114	31.00	RXZE2M114	31.00
	With connector (5)	RXZE2M114M	35.00	RXZE2M114M	35.00
Sockets (2) with separate contact terminals (4)	With connector (6)	RXZE2S114M	38.00	RXZE2S108M	33.00

(1) For d.c. 48V supply, additional resistor 560 Ω 2W / d.c. 24V.

For a.c. 48V supply, additional resistor 390 Ω 4W / a.c. 24V.

(2) These products are sold in lots of 10.

(3) The inputs are mixed with the relay's supply terminals, with the outputs being located on the opposite side of the socket.

(4) The inputs and outputs are separated from the relay supply terminals.

(5) Thermal current I_{th}: 10A

(6) Thermal current I_{th}: 12A

Compact smart relays with display



SR2 A201BD

Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Output	Transistor outputs	Clock	Reference	Per Pc Price (RM)
Supply 12V d.c.							
12	8	4	4	0	Yes	SR2B121JD	977.00
20	12	6	8	0	Yes	SR2B201JD	1,379.00
Supply 24V d.c.							
10	6	0	4	0	No (1)	SR2A101BD	825.00
12	8	4	4	0	Yes	SR2B121BD	908.00
	8	4	0	4	Yes	SR2B122BD	869.00
20	12	2	8	0	No (1)	SR2A201BD	1,232.00
	12	6	8	0	Yes	SR2B201BD	1,368.00
Supply 24V a.c.							
12	8	0	4	0	Yes	SR2B121B	912.00
20	12	0	8	0	Yes	SR2B201B	1,379.00
Supply 100...240V a.c.							
10	6	0	4	0	No (1)	SR2A101FU	852.00
12	8	0	4	0	Yes	SR2B121FU	967.00
20	12	0	8	0	No (1)	SR2A201FU	1,267.00
	12	0	8	0	Yes	SR2B201FU	1,396.00

Compact smart relays without display



Supply 24V d.c.							
10	6	0	4	0	No (1)	SR2D101BD	698.00
12	8	4	4	0	Yes	SR2E121BD	779.00
20	12	2	8	0	No (1)	SR2D201BD	1,125.00
Supply 24V a.c.							
12	8	0	4	0	Yes	SR2E121B	812.00
Supply 100...240V a.c.							
10	6	0	4	0	No (1)	SR2D101FU	741.00
12	8	0	4	0	Yes	SR2E121FU	772.00
20	12	0	8	0	No (1)	SR2D201FU	1,139.00
	12	0	8	0	Yes	SR2E201FU	1,174.00

Compact "Discovery" packs



SR2 PACK●●●

Number	Pack contents	Reference	Per Pc Price (RM)
Supply 24V d.c.			
20	A SR2B201BD modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACK2BD	1,706.00
Supply 100...240V a.c.			
12	A SR2B121FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACKFU	1,409.00
20	A SR2B201FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACK2FU	1,773.00

(1) With NO clock: Programming on smart relays in LADDER language only.

Modular smart relays with display



SR3 B101BD

Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Relay outputs	Transistor outputs	Clock	Reference	Per Pc Price (RM)
Supply 24V d.c.							
10	6	4	4	0	Yes	SR3B101BD	1,053.00
	6	4	0	4	Yes	SR3B102BD	893.00
26	16	6	10 (1)	0	Yes	SR3B261BD	1,548.00
	16	6	0	10	Yes	SR3B262BD	1,509.00
Supply 24V a.c.							
26	16	0	10 (1)	0	Yes	SR3B261B	1,927.00
Supply 100...240V a.c.							
10	6	0	4	0	Yes	SR3B101FU	958.00
26	16	0	10 (1)	0	Yes	SR3B261FU	1,603.00

Discrete I/O extension modules (2)



SR3 XT61BD



SR3 XT141BD

Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Relay outputs	Transistor outputs	Clock	Reference	Per Pc Price (RM)
Supply 24V d.c. (for smart relays SR3B●●●BD)							
6	4		2			SR3XT61BD	324.00
10	6		4			SR3XT101BD	414.00
14	8		6			SR3XT141BD	564.00
Supply 24V a.c. (for smart relays SR3B●●●B)							
14	8		6			SR3XT141B	580.00
Supply 100...240V a.c. (for smart relays SR3B●●●FU)							
6	4		2			SR3XT61FU	324.00
10	6		4			SR3XT101FU	413.00
14	8		6			SR3XT141FU	693.00

Communication modules (2)

For use on	Supply voltage	Reference	Per Pc Price (RM)
Modbus network	24V d.c.	SR3MBU01BD	611.00

Modular "Discovery" packs



Number	Pack contents	Reference	Per Pc Price (RM)
Supply 24V d.c.			
10	A SR3B101BD modular smart relays, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACKBD	1,316.00
26	A SR3B261BD modular smart relays, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACK2BD	1,956.00
Supply 100...240V a.c.			
10	A SR3B101FU modular smart relays, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACKFU	1,317.00
26	A SR3B261FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACK2FU	1,957.00

(1) Including 8 outputs at maximum current of 8A and 2 outputs at maximum current of 5A.

(2) Power supply to the I/O extension and communication modules is via the modular smart relay.

Note: The smart relay and its associated extensions must have an identical voltage.

Programmable Smart Relays

Zelio Soft 2 software and programming tools
& communication interface for SR2/SR3

Zelio Soft 2 software for PC



SR2 SFT01

Description	Reference	Per Pc Price (RM)
"Zelio Soft 2" for PC multi-language programming software supplied on CD-Rom (1), compatible with Window 95, 98, NT, 2000, XP and ME	SR2SFT01	341.00

Connection accessories

Description	Reference	Per Pc Price (RM)
Connecting cable Connection between the PC (SUB-D, 9-way connector) and the Smart relays, length: 3m	SR2CBL01	563.00
Connection between the PC (USB connector) and the Smart relay. PC compatible with Windows 2000 and XP length: 3m	SR2USB01	489.00

Memory cartridges



SR2 MEM01

Description	Reference	Per Pc Price (RM)
EEPROM memory cartridges For use with firmware (software embedded in the smart relays) version ≤ 2.4	SR2MEM02	203.00

Modem communication interface



SR2 COM01

Description	For use with	Nominal voltage	Reference	Per Pc Price (RM)
Modem communication interface (including cable SR2 CBL07)	SR•B••••• SR2 E•••••	12...24V d.c.	SR2COM01 (1)	1,039.00

(1) Can only be used with "Zelio Soft 2" software version ≥ 3.1 .

Power Supplies

Modular, Optimum, Universal
 Modicon ABLM, ABL8, ABL8
 Comply with IEC 62368-1 standard

12

Regulated switch mode with automatic reset: Modular range (Replace ABL8MEM)

40% Smaller !!!



ABLM1A24004



ABL8MEM12020

Input voltage	Secondary			Reset	Reference	Per Pc Price (RM)
	Output voltage	Nominal power	Nominal current			
Single-phase (N-L1) or 2-phase (L1-L2) connection						
100...240 V ac 50/60 Hz	5 V dc	18 W	3.6 A	Automatic	ABLM1A05036	404.00
	12 V dc	12 W	1 A	Automatic	ABLM1A12010	268.00
25 W		2.1 A	Automatic	ABLM1A12021	394.00	
50 W		4.2 A	Automatic	ABLM1A12042	571.00	
24 V dc		10 W	0.4 A	Automatic	ABLM1A24004	235.00
	15 W	0.6 A	Automatic	ABLM1A24006	264.00	
		30 W	1.3 A	Automatic	ABLM1A24012	391.00
		60 W	2.5 A	Automatic	ABLM1A24025	567.00

Regulated switch mode: Optimized range (Replace ABL8REM)



ABL8S1A24031



ABL8S1A24200

Input voltage	Secondary			Reset	Reference	Per Pc Price (RM)
	Output voltage	Nominal power	Nominal current			
Single-phase (N-L1) or phase-to-phase (L1-L2) connection						
100...240 VAC 140...340 VDC (except ABL8S1A24021 and ABL8S1A24038)	12 Vdc	75 W	6.25 A	Automatic	ABL8S1A12062	427.00
		120 W	10 A	Automatic	ABL8S1A12100	591.00
50/60 Hz	24 Vdc	50 W	2.1 A	Automatic	ABL8S1A24021	354.00
		75 W	3.13 A	Automatic	ABL8S1A24031	395.00
		91 W	3.8 A	Automatic	ABL8S1A24038	501.00
	48 Vdc	120 W	5 A	Automatic	ABL8S1A24050	554.00
		240 W	10 A	Automatic	ABL8S1A24100	868.00
		480 W	20 A	Automatic	ABL8S1A24200	1,491.00
		120 W	2.5 A	Automatic	ABL8S1A48025	591.00

Regulated switch mode with automatic or manual reset: Universal range



ABL8RPS24050



ABL8RPM24200



ABL8WPS24200

Input voltage	Secondary			Reset	Reference	Per Pc Price (RM)
	Output voltage	Nominal power	Nominal current			
Single-phase (N-L1) or phase-to-phase (L1-L2) connection						
100...120 V 200...500 V ac -15%, + 10% 50/60 Hz	24...28.8 V	70 W	3 A	Auto/Manual	ABL8RPS24030	1,044.00
	dc	120 W	5 A	Auto/Manual	ABL8RPS24050	1,530.00
		240 W	10 A	Auto/Manual	ABL8RPS24100	1,621.00
100...120 V 200...240 V ac -15%, + 10% 50/60 Hz	24...28.8 V	480 W	20 A	Auto/Manual	ABL8RPM24200	3,406.00
	dc					
3-phase connection (L1-L2-L3)						
380...500 V ac ± 10% 50/60 Hz	24...28.8 V	480 W	20 A	Auto/Manual	ABL8WPS24200	3,406.00
	dc	960 W	40 A	Auto/Manual	ABL8WPS24400	4,670.00

Function modules for continuity of service

ABL 8BBU24200

Function	Use	Description	Reference	Per Pc Price (RM)
Continuity after a power outage	Holding time 9 min at 40A...2hrs at 1A(dependent on use with a battery check module-battery unit and load) (1)	Battery back-up module 20A output current	ABL8BBU24200	2,837.00
Continuity after amal function	Paralleling and redundancy of the power supply to ensure uninterrupted operation of the application excluding AC line failures and application overloads	Redundancy module	ABL8RED24400	1,246.00

Separate and replacement parts

Designation	Description	Composition	Reference	Per Pc Price (RM)
Cables	Connection cable between ABL8BBU and PC for updating the software	RS2323m	SR2CBL01	563.00
		USB3m	SR2USB01	489.00
EEPROM memory	Back-up and duplication of ABL8BBU parameters		SR2MEM02	203.00

(1)For table of compatibility of battery check module-battery unit with holding time depending on the load, see catalogue.

Power Supplies

Dedicated
Modicon ABLP & ABL2

ABL1REM single-phase regulated switch mode power supplies



ABLP1A12085



ABLP1A24100

Mains input voltage	Output voltage	Rated power	Rated current	Automatic protection reset	Complies with standard EN 61000-3-2	Reference	Price (RM)
Single-phase (N-L1) or 2-phase (L1-L2) connection							
AC 100...240	12 Vdc	100 W	8.3 A	auto	yes	ABLP1A12085	285.00
	24 Vdc	100 W	4.5 A	auto	yes	ABLP1A24045	274.00
	24 Vdc	150 W	6.2 A	auto	yes	ABLP1A24062	446.00
		240 W	10 A	auto	yes	ABLP1A24100	617.00

12

Control and Signalling units

Harmony® XB4, metal Ø22

Spring return pushbutton and illuminated pushbutton with integral LED	13-1
Double and Mushroom head pushbuttons, Emergency devices	13-2
Selector switches and illuminated selector switches with integral LED	13-3
Pilot lights	13-4

Harmony® XB5, Plastic Ø22

Spring return pushbutton & Illuminated pushbutton with integral LED	13-5
Double and Mushroom head pushbuttons, Emergency devices	13-6
Selector switches and illuminated selector switches with integral LED	13-7
Pilot lights	13-8

Harmony® XB6, Plastic Ø16

Spring return illuminated pushbuttons, with integral LED	13-9
Latching illuminated pushbuttons, with integral LED	13-10
Pilot lights with integral LED	13-10
Selector switches and key switches	13-11

Harmony® XB7, Monolithic Ø22

Pushbuttons, selector/key switches	13-12
Emergency stop devices, illuminated pushbuttons with integral LED	13-12
Pilot lights	13-13

Control Stations

Control stations XAL, complete stations	13-14
Control stations XAL, components for customer assembly	13-16

Signalling Solutions

Harmony type XVC Monolithic tower lights, Ø 40, Ø 60 and Ø 100 mm	13-17
Harmony type XVU Modular tower lights, Ø 60 mm	13-19
Harmony type XVR Rotating mirror beacons	13-20
Harmony type XVS Sirens and electronic alarms	13-21

Pendant Control Stations

Double insulated, type XAC-A	13-22
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Harmony® XB4, Metal Ø22

Spring return pushbutton and illuminated pushbutton with integral LED

Pushbuttons

Screw clamp terminal connections



XB4 BA31



XB4 BL42



XB4 BP21



XB4 BA4332

Shape of head	Type of contact		Colour of push	Complete unit		Head		Body	
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	Flush push								
	1	-	White	XB4BA11	61.00	ZB4BA1	31.00	ZB4BZ101	30.00
			Black	XB4BA21	61.00	ZB4BA2	31.00	ZB4BZ101	30.00
			Green	XB4BA31	61.00	ZB4BA3	31.00	ZB4BZ101	30.00
			Yellow	XB4BA51	61.00	ZB4BA5	31.00	ZB4BZ101	30.00
			Blue	XB4BA61	61.00	ZB4BA6	31.00	ZB4BZ101	30.00
	-	1	Red	XB4BA42	61.00	ZB4BA4	31.00	ZB4BZ102	30.00

	-	1	Red	XB4BL42	66.00	ZB4BL4	39.00	ZB4BZ102	30.00
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Silicone booted head for severe environments (colour of push unobscured)

	1	-	Black	XB4BP21	75.00	ZB4BP2	44.00	ZB4BZ101	30.00	
			Green	XB4BP31	75.00	ZB4BP3	44.00	ZB4BZ101	30.00	
			Yellow	XB4BP51	75.00	ZB4BP5	44.00	ZB4BZ101	30.00	
			Blue	XB4BP61	75.00	ZB4BP6	44.00	ZB4BZ101	30.00	
		-	1	Red	XB4BP42	75.00	ZB4BP4	44.00	ZB4BZ102	30.00

Flush push with marking

Shape of head	Type of contact		Marking Text (colour)	Colour of push	Complete unit		Head		Body	
	N/O	N/C			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	1	-	"I" (white)	Green	XB4BA3311	67.00	ZB4BA331	39.00	ZB4BZ101	30.00
	-	1	"O" (white)	Red	XB4BA4322	67.00	ZB4BA432	39.00	ZB4BZ102	30.00
	1	-	↑ (black)	White	XB4BA3341	67.00	ZB4BA334	39.00	ZB4BZ101	30.00
	1	-	↓ (white)	Black	XB4BA3351	67.00	ZB4BA335	39.00	ZB4BZ101	30.00

Projecting push with marking

	-	1	"O" (white)	Red			ZB4BL432	75.00	ZB4BZ102	30.00
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Illuminated pushbuttons with flush push and integral LED

Screw clamp terminal connections



XB4 BW33B5



XB4 BW34G5

Shape of head	Supply voltage (V)	Colour of push	Complete unit		Head		Body		
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)	
	24V a.c./d.c.	White	XB4BW31B5	162.00	ZB4BW313	87.00	ZB4BW0B15	79.00	
		Green	XB4BW33B5	162.00	ZB4BW333	87.00	ZB4BW0B35	79.00	
		Red	XB4BW34B5	162.00	ZB4BW343	87.00	ZB4BW0B45	79.00	
		Orange	XB4BW35B5	162.00	ZB4BW353	87.00	ZB4BW0B55	79.00	
		Blue	XB4BW36B5		ZB4BW363		ZB4BW0B65		
		White	XB4BW31G5	175.00	ZB4BW313	87.00	ZB4BW0G15	94.00	
	110...120V 50/60Hz	Green	XB4BW33G5	175.00	ZB4BW333	87.00	ZB4BW0G35	94.00	
		Red	XB4BW34G5	175.00	ZB4BW343	87.00	ZB4BW0G45	94.00	
		Orange	XB4BW35G5	175.00	ZB4BW353	87.00	ZB4BW0G55	94.00	
		Blue	XB4BW36G5	175.00	ZB4BW363	87.00	ZB4BW0G65	94.00	
		230...240V 50/60Hz	White	XB4BW31M5	187.00	ZB4BW313	87.00	ZB4BW0M15	102.00
			Green	XB4BW33M5	187.00	ZB4BW333	87.00	ZB4BW0M35	102.00
Red	XB4BW34M5		187.00	ZB4BW343	87.00	ZB4BW0M45	102.00		
Orange	XB4BW35M5		187.00	ZB4BW353	87.00	ZB4BW0M55	102.00		
Blue	XB4BW36M5		187.00	ZB4BW363	87.00	ZB4BW0M65	102.00		

Illuminated pushbuttons with flush push and BA 9s base fitting



XB4 BW3545

Type	Supply voltage (V)	Colour of push	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Direct supply for bulb with BA 9s base fitting, 2.4W max (bulb not included)	≤ 250	White	XB4BW3165	136.00	ZB4BW31	41.00	ZB4BW065	102.00
		Green	XB4BW3365	136.00	ZB4BW33	38.00	ZB4BW065	102.00
		Red	XB4BW3465	136.00	ZB4BW34	38.00	ZB4BW065	102.00
		Orange	XB4BW3565	136.00	ZB4BW35	38.00	ZB4BW065	102.00
Via integral transformer 1.2VA, 6V secondary, BA 9s incandescent (bulb included)	110...120 a.c. 50/60Hz	White	XB4BW3135	232.00	ZB4BW31	41.00	ZB4BW035	177.00
		Green	XB4BW3335	230.00	ZB4BW33	38.00	ZB4BW035	177.00
		Red	XB4BW3435	230.00	ZB4BW34	38.00	ZB4BW035	177.00
		Orange	XB4BW3535	230.00	ZB4BW35	38.00	ZB4BW035	177.00
		White	-		ZB4BW31	41.00	ZB4BW045	177.00
		Green	XB4BW3345	230.00	ZB4BW33	38.00	ZB4BW045	177.00
		Red	XB4BW3445	230.00	ZB4BW34	38.00	ZB4BW045	177.00
		Orange	XB4BW3545	230.00	ZB4BW35	38.00	ZB4BW045	177.00

Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB4 BL73415



Description

2 pushes
(1 flush black +
1 projecting red)

Type of contact

N/O N/C

1 1

Colour and marking
of caps (2)

White "I" on green background
White "0" on red background

Reference

XB4BL73415

Price (RM)

205.00

Double-headed pushbuttons + 1 white central pilot light block (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB4 BW73731●●



Description

1 flush black push
1 projecting
red push
1 white central
pilot light block

Type of contact

N/O N/C

1 1

Colour and marking
of caps (2)

White "I" on green
background
White "0" on red
background

Pilot light
voltage (V)

24

Reference

XB4BW73731B5

Price (RM)

231.00

120

XB4BW73731G5

243.00

240

XB4BW73731M5

257.00

Mushroom head pushbuttons Ø40mm

XB4 BC21



Colour
of push

Black

Type of contact

N/O N/C

1

-

Complete unit

Reference

XB4BC21

Price (RM)

97.00

Head

Reference

ZB4BC2

Price (RM)

67.00

Body

Reference

ZB4BZ101

Price (RM)

30.00

Emergency stop trigger action and mechanical latching pushbuttons, Ø40mm (Red)

XB4 BS8442



Type of
reset

Push-pull

Type of contact

N/O N/C

-

1

Complete unit

Reference

XB4BT842

Price (RM)

147.00

Head

Reference

ZB4BT84

Price (RM)

99.00

Body

Reference

ZB4BZ102

Price (RM)

30.00

Type of
reset

Turn to
release

-

1

Reference

XB4BS8442

Price (RM)

152.00

Reference

ZB4BS844

Price (RM)

123.00

Reference

ZB4BZ102

Price (RM)

30.00

Type of
reset

Key
release
(key no. 455)

-

1

Reference

XB4BS9442

Price (RM)

207.00

Reference

ZB4BS944

Price (RM)

177.00

Reference

ZB4BZ102

Price (RM)

30.00



XB4 BS9442



(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, refer catalogue for details.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

Selector switches

Screw clamp terminal connections

Type of contact	Positions Number	Type	Complete unit Reference	Price (RM)	Head		Body			
					Reference	Price (RM)	Reference	Price (RM)		
Standard handle, black										
1	-	2-position	Stay put		XB4BD21	87.00	ZB4BD2	58.00	ZB4BZ101	30.00
1	-	90°	Spring return from right to left		XB4BD41	92.00	ZB4BD4	58.00	ZB4BZ101	30.00
1	1		Stay put		XB4BD25	107.00	ZB4BD2	58.00	ZB4BZ105	48.00
2	-	3-position	Stay put		XB4BD33	107.00	ZB4BD3	58.00	ZB4BZ103	48.00
2	-	±45°	Spring return to centre		XB4BD53	112.00	ZB4BD5	58.00	ZB4BZ103	48.00
Long handle, black										
1	-	2-position	Stay put		XB4BJ21	87.00	ZB4BJ2	47.00	ZB4BZ101	30.00
2	-	3-position	Stay put		XB4BJ33	102.00	ZB4BJ3	47.00	ZB4BZ103	48.00
		±45°	Spring return to centre		XB4BJ53	107.00	ZB4BJ5	47.00	ZB4BZ103	48.00
Key switches with key no°455										
1	-	2-position	Stay put		XB4BG21	216.00	ZB4BG2	184.00	ZB4BZ101	30.00
		90°			XB4BG41	216.00	ZB4BG4	184.00	ZB4BZ101	30.00
			Spring return to left		XB4BG61	216.00	ZB4BG6	184.00	ZB4BZ101	30.00
2	-	3-position	Stay put		XB4BG03	234.00	ZB4BG0	184.00	ZB4BZ103	48.00
		±45°			XB4BG33	234.00	ZB4BG3	184.00	ZB4BZ103	48.00

Illuminated selector switches with standard handle, with integral LED

Screw clamp terminal connections

Type of contact	Positions Number	Supply voltage	Colour of handle	Complete unit		Head		Body		
				Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)	
Standard handle										
1	1	24V	Green	XB4BK123B5	168.00	ZB4BK1233	87.00	ZB4BW0B35	79.00	
		Stay put	Red	XB4BK124B5	168.00	ZB4BK1243	87.00	ZB4BW0B45	79.00	
			Orange	XB4BK125B5	168.00	ZB4BK1253	87.00	ZB4BW0B55	79.00	
		110...130V	Green	XB4BK123G5	191.00	ZB4BK1233	87.00	ZB4BW0G35	94.00	
		90°	a.c.	Red	XB4BK124G5	191.00	ZB4BK1243	87.00	ZB4BW0G45	94.00
			Orange	XB4BK125G5	191.00	ZB4BK1253	87.00	ZB4BW0G55	94.00	
		220...240V	Green	XB4BK123M5	203.00	ZB4BK1233	87.00	ZB4BW0M35	102.00	
		a.c.	Red	XB4BK124M5	203.00	ZB4BK1243	87.00	ZB4BW0M45	102.00	
			Orange	XB4BK125M5	203.00	ZB4BK1253	87.00	ZB4BW0M55	102.00	
		24V	Green	XB4BK133B5	172.00	ZB4BK1333	93.00	ZB4BW0B35	79.00	
		Stay put	Red	XB4BK134B5	171.00	ZB4BK1343	93.00	ZB4BW0B45	79.00	
			Orange	XB4BK135B5	171.00	ZB4BK1353	93.00	ZB4BW0B55	79.00	
		220...240V	Green	XB4BK133M5	203.00	ZB4BK1333	93.00	ZB4BW0M35	102.00	
		±45°	a.c.	Red	XB4BK134M5	203.00	ZB4BK1343	93.00	ZB4BW0M45	102.00
			Orange	XB4BK135M5	203.00	ZB4BK1353	93.00	ZB4BW0M55	102.00	



XB4 BK123B5

Protected
LED

Pilot lights with integral LED




XB4 BVB5

Shape of head	Supply voltage (V)	Colour	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	24V	White	XB4BVB1	72.00	ZB4BV013	31.00	ZB4BVB1	44.00
	a.c./ d.c.	Green	XB4BVB3	72.00	ZB4BV033	31.00	ZB4BVB3	44.00
	50/60Hz	Red	XB4BVB4	72.00	ZB4BV043	31.00	ZB4BVB4	44.00
		Orange	XB4BVB5	72.00	ZB4BV053	31.00	ZB4BVB5	44.00
		Blue	XB4BVB6	72.00	ZB4BV063	31.00	ZB4BVB6	43.00
	110...120V	White	XB4BVG1	80.00	ZB4BV013	31.00	ZB4BVG1	54.00
	a.c.	Green	XB4BVG3	80.00	ZB4BV033	31.00	ZB4BVG3	54.00
	50/60Hz	Red	XB4BVG4	80.00	ZB4BV043	31.00	ZB4BVG4	55.00
		Orange	XB4BVG5	80.00	ZB4BV053	31.00	ZB4BVG5	55.00
		Blue	XB4BVG6	84.00	ZB4BV063	31.00	ZB4BVG6	55.00
	230...240V	White	XB4BVM1	90.00	ZB4BV013	31.00	ZB4BVM1	63.00
	a.c.	Green	XB4BVM3	90.00	ZB4BV033	31.00	ZB4BVM3	63.00
	50/60Hz	Red	XB4BVM4	90.00	ZB4BV043	31.00	ZB4BVM4	63.00
		Orange	XB4BVM5	90.00	ZB4BV053	31.00	ZB4BVM5	63.00
		Blue	XB4BVM6	95.00	ZB4BV063	31.00	ZB4BVM6	63.00

Pilot lights for BA 9s base fitting, with plain lens




XB4 BV64

Shape of head	Supply voltage (V)	Colour	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Direct supply, for BA 9s U 250V, 2.4W bulb (bulb not included)								
	≤250	White	XB4BV61	63.00	ZB4BV01	23.00	ZB4BV6	39.00
	d.c.	Green	XB4BV63	63.00	ZB4BV03	23.00	ZB4BV6	39.00
		Red	XB4BV64	63.00	ZB4BV04	23.00	ZB4BV6	39.00
		Orange	XB4BV65	63.00	ZB4BV05	23.00	ZB4BV6	39.00

Via integral transformer with 1.2VA, 6V secondary. BA 9s incandescent bulb included



XB4 BV33

	110...120V	White	-	-	ZB4BV01	23.00	ZB4BV3	140.00
	a.c.	Green	-	-	ZB4BV03	23.00	ZB4BV3	140.00
	50/60Hz	Red	-	-	ZB4BV04	23.00	ZB4BV3	140.00
		Orange	-	-	ZB4BV05	23.00	ZB4BV3	140.00
	~230V-50Hz	White	XB4BV41	156.00	ZB4BV01	23.00	ZB4BV4	140.00
	~220...240V	Green	XB4BV43	164.00	ZB4BV03	23.00	ZB4BV4	140.00
	- 60Hz	Red	XB4BV44	156.00	ZB4BV04	23.00	ZB4BV4	140.00
		Orange	XB4BV45	164.00	ZB4BV05	23.00	ZB4BV4	140.00

Contact functions



XB4BD912R1K

Description	Resistance k Ω	Reference	Price (RM)
+/- 10% linear mode precision complete potentiometer with screw terminals	4.7	XB4BD912R4K7	479.00
	10	XB4BD912R10K	479.00
	47	XB4BD912R47K	479.00

Contact functions

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications



ZBE101

Description	Type of contact	Type of contact		Sold in lots of	Unit Reference	Price (RM)
		N/O	N/C			
Contact blocks	Single	1	-	5	ZBE101	22.00
		-	1	5	ZBE102	22.00
	Double	2	-	5	ZBE203	93.00
		-	2	5	ZBE204	96.00
		1	1	5	ZBE205	96.00

Pushbutton with flush push

Screw clamp terminal connections



XB5 AA31



XB5 AP51



XB5 AL42



XB5 AA331

Shape of head	Type of contact		Colour of push	Complete unit		Head		Body	
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Flush push									
	1	-	White	XB5AA11	50.00	ZB5AA1	26.00	ZB5AZ101	26.00
			Black	XB5AA21	50.00	ZB5AA2	26.00	ZB5AZ101	26.00
			Green	XB5AA31	50.00	ZB5AA3	26.00	ZB5AZ101	26.00
			Yellow	XB5AA51	50.00	ZB5AA5	26.00	ZB5AZ101	26.00
Flush									
			Blue	XB5AA61	50.00	ZB5AA6	26.00	ZB5AZ101	26.00
			Red	XB5AA42	50.00	ZB5AA4	26.00	ZB5AZ102	26.00
Flush with clear silicone boot (colour of push) unobscured)									
	1	-	Black	XB5AP21	61.00	ZB5AP2	38.00	ZB5AZ101	26.00
			Green	XB5AP31	63.00	ZB5AP3	38.00	ZB5AZ101	26.00
			Yellow	XB5AP51	63.00	ZB5AP5	38.00	ZB5AZ101	26.00
			Red	XB5AP42	63.00	ZB5AP4	38.00	ZB5AZ102	26.00
Projecting push									
	-	1	Red	XB5AL42	52.00	ZB5AL4	27.00	ZB5AZ102	26.00
Flush push with marking									
Shape of head	Type of contact	Marking text	Colour of push (colour)	Complete unit		Head		Body	
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	1	-	Green	XB5AA3311	54.00	ZB5AA331	28.00	ZB5AZ101	26.00
			(white)						
	-	1	Red	XB5AA4322	54.00	ZB5AA432	27.00	ZB5AZ102	26.00
			(white)						
	1	-	White	XB5AA3341	54.00	ZB5AA334	27.00	ZB5AZ101	26.00
			(1)						
	1	-	Black	XB5AA3351	54.00	ZB5AA335	27.00	ZB5AZ101	26.00
			(1)						
Projecting push with marking									
	-	1	Red			ZB5AL432	29.00	ZB5AZ102	26.00
			(white)						

Illuminated pushbuttons with flush push and integral LED

Screw clamp terminal connections



XB5 AW31B5

Shape of head	Supply voltage (V)	Colour of push	Complete unit		Head		Body		
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)	
	24V a.c./d.c.	White	XB5AW31B5	129.00	ZB5AW313	57.00	ZB5AW0B15	72.00	
		Green	XB5AW33B5	129.00	ZB5AW333	57.00	ZB5AW0B35	72.00	
		Red	XB5AW34B5	129.00	ZB5AW343	57.00	ZB5AW0B45	72.00	
	110...120V a.c. 50/60Hz	Orange	XB5AW35B5	129.00	ZB5AW353	57.00	ZB5AW0B55	72.00	
		Blue	XB5AW36B5	129.00	ZB5AW363	57.00	ZB5AW0B65	72.00	
		White	XB5AW31G5	146.00	ZB5AW313	57.00	ZB5AW0G15	87.00	
	230...240V a.c. 50/60Hz	Green	XB5AW33G5	142.00	ZB5AW333	57.00	ZB5AW0G35	87.00	
		Red	XB5AW34G5	146.00	ZB5AW343	57.00	ZB5AW0G45	87.00	
		Orange	XB5AW35G5	146.00	ZB5AW353	57.00	ZB5AW0G55	87.00	
		50/60Hz	White	XB5AW31M5	150.00	ZB5AW313	57.00	ZB5AW0M15	98.00
			Green	XB5AW33M5	150.00	ZB5AW333	57.00	ZB5AW0M35	95.00
			Red	XB5AW34M5	150.00	ZB5AW343	57.00	ZB5AW0M45	98.00
		Orange	XB5AW35M5	150.00	ZB5AW353	57.00	ZB5AW0M55	98.00	
		Blue	XB5AW36M5	150.00	ZB5AW363	57.00	ZB5AW0M65	96.00	

Illuminated pushbuttons with flush push and BA 9s base fitting

Screw clamp terminal connections


Description	Supply voltage (V)	Colour of push	Head		Body	
			Reference	Price (RM)	Reference	Price (RM)
Direct supply for bulb with BA 9s base fitting, 2.4W max (bulb not included)	≤ 250	White	ZB5AW31	29.00	ZB5AW065	78.00
		Green	ZB5AW33	29.00	ZB5AW065	78.00
		Red	ZB5AW34	29.00	ZB5AW065	78.00
Via integral transformer 1.2VA, 6V secondary.	110...120	White	ZB5AW31	29.00	ZB5AW035	158.00
	a.c.	Green	ZB5AW33	29.00	ZB5AW035	158.00
	50/60Hz	Red	ZB5AW34	29.00	ZB5AW035	158.00
BA 9s incandescent (bulb included)	A.C. 230 50Hz A.C. 220...240 - 60Hz	White	ZB5AW31	29.00	ZB5AW045	158.00
		Green	ZB5AW33	29.00	ZB5AW045	158.00
		Red	ZB5AW34	29.00	ZB5AW045	158.00
		Orange	ZB5AW35	29.00	ZB5AW045	158.00

Double-headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB5AL73415

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Reference	Price (RM)
		N/O	N/C			
	2 pushes (1 flush black + 1 projecting red)	1	1	White "1" on green background White "0" on red background	XB5AL73415	187.00


Double-headed pushbuttons + 1 white central pilot light block (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)




XB5BW73731B5



Shape of head	Description	Type of contact		Colour and marking of caps (2)	Pilot light voltage (V)	Reference	Price (RM)
		N/O	N/C				
	1 flush black push 1 projecting red push 1 white central pilot light block	1	1	White "1" on green background White "0" on red background	24 120 240	XB5AW73731B5 XB5AW73731G5 XB5AW73731M5	212.00 228.00 237.00

Mushroom head pushbuttons Ø40mm

XB5 AC21

Shape of head	Type of contact		Colour of push	Complete unit		Head		Body	
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	1	-	Black	XB5AC21	79.00	ZB5AC2	55.00	ZB5AZ101	26.00

Emergency stop trigger action and mechanical latching pushbuttons, Ø40mm (Red)

XB5 AT842

Shape of head	Type of reset	Type of contact		Complete unit		Head		Body	
		N/O	N/C	Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	Push-pull	-	1	XB5AT842	116.00	ZB5AT84	86.00	ZB5AZ102	26.00
	Turn to release	-	1	XB5AS8442	125.00	ZB5AS844	101.00	ZB5AZ102	26.00
	Key release (key no. 455)	-	1	XB5AS9442	143.00	ZB5AS944	117.00	ZB5AZ102	26.00

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see catalogue.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).



XB5 AS9442

Harmony® XB5, Plastic Ø22

Selector switches and illuminated selector switches with integral LED

Selector switches

Type of contact		Positions Number	Type		Complete unit		Head		Body	
N/O	N/C				Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Standard handle, black										
1	-	2-position	Stay put		XB5AD21	74.00	ZB5AD2	50.00	ZB5AZ101	26.00
1	-	90°	Spring return from right to left		XB5AD41	77.00	ZB5AD4	50.00	ZB5AZ101	26.00
1	1		Stay put		XB5AD25	93.00	ZB5AD2	50.00	ZB5AZ105	44.00
2	-	3-position	Stay put		XB5AD33	91.00	ZB5AD3	50.00	ZB5AZ103	44.00
2	-	±45°	Spring return to centre		XB5AD53	91.00	ZB5AD5	50.00	ZB5AZ103	44.00
Long handle, black										
1	-	2-position 90°	Stay put		XB5AJ21	53.00	ZB5AJ2	29.00	ZB5AZ101	26.00
2	-	3-position ±45°	Stay put		XB5AJ33	68.00	ZB5AJ3	29.00	ZB5AZ103	44.00
			Spring return to centre		XB5AJ53	70.00	ZB5AJ5	29.00	ZB5AZ103	44.00
Key switches with key no. 455										
1	-	2-position 90°	Stay put		XB5AG21	170.00	ZB5AG2	148.00	ZB5AZ101	26.00
					XB5AG41	170.00	ZB5AG4	148.00	ZB5AZ101	26.00
			Spring return to left		XB5AG61	170.00	ZB5AG6	154.00	ZB5AZ101	26.00
2	-	3-position ±45°	Stay put		XB5AG03	188.00	ZB5AG0	150.00	ZB5AZ103	44.00
					XB5AG33	188.00	ZB5AG3	150.00	ZB5AZ103	44.00

Illuminated selector switches with standard handle, with integral LED

Type of contact		Positions Number	Supply voltage	Colour of handle	Complete unit		Head		Body	
N/O	N/C	Type	(V)		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
1	1	2-position	24V	Green	XB5AK123B5	141.00	ZB5AK1233	69.00	ZB5AW0B35	72.00
		Stay put	a.c./d.c.	Red	XB5AK124B5	141.00	ZB5AK1243	69.00	ZB5AW0B45	72.00
				Orange	XB5AK125B5	136.00	ZB5AK1253	72.00	ZB5AW0B55	72.00
			220...240V	Green	XB5AK123M5	164.00	ZB5AK1233	69.00	ZB5AW0M35	95.00
			a.c.	Red	XB5AK124M5	164.00	ZB5AK1243	69.00	ZB5AW0M45	98.00
				Orange	XB5AK125M5	164.00	ZB5AK1253	72.00	ZB5AW0M55	98.00



ZB5FK1233

* NEW Flush mount head available on request

Pilot lights with integral LED



XB5AVB5



XB5FV043

* NEW Flush mount head available on request

Shape of head	Supply voltage (V)	Colour	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Protected LED	24V	White	XB5AVB1	56.00	ZB5AV013	21.00	ZB5AVB1	37.00
	a.c./d.c.	Green	XB5AVB3	56.00	ZB5AV033	19.00	ZB5AVB3	37.00
	50/60Hz	Red	XB5AVB4	56.00	ZB5AV043	19.00	ZB5AVB4	37.00
		Orange	XB5AVB5	56.00	ZB5AV053	19.00	ZB5AVB5	37.00
		Blue	XB5AVB6	56.00	ZB5AV063	19.00	ZB5AVB6	37.00
		110...120V	White	XB5AVG1	66.00	ZB5AV013	21.00	ZB5AVG1
a.c.	Green	XB5AVG3	66.00	ZB5AV033	21.00	ZB5AVG3	48.00	
50/60Hz	Red	XB5AVG4	66.00	ZB5AV043	21.00	ZB5AVG4	48.00	
	Orange	XB5AVG5	66.00	ZB5AV053	21.00	ZB5AVG5	49.00	
	Blue	XB5AVG6	66.00	ZB5AV063	21.00	ZB5AVG6	49.00	
	230...240V	White	XB5AVM1	77.00	ZB5AV013	21.00	ZB5AVM1	57.00
a.c.	Green	XB5AVM3	77.00	ZB5AV033	21.00	ZB5AVM3	57.00	
50/60Hz	Red	XB5AVM4	77.00	ZB5AV043	21.00	ZB5AVM4	57.00	
	Orange	XB5AVM5	77.00	ZB5AV053	21.00	ZB5AVM5	57.00	
	Blue	XB5AVM6	77.00	ZB5AV063	21.00	ZB5AVM6	57.00	

Pilot lights for BA 9s base fitting, with plain lens



XB5AV65



Shape of head	Supply voltage (V)	Colour	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
Direct supply, for BA 9s bulb, U 250V, 2.4W max. (bulb not included)								
	≤250	White	XB5AV61	50.00	ZB5AV01	21.00	ZB5AV6	32.00
	d.c.	Green	XB5AV63	50.00	ZB5AV03	21.00	ZB5AV6	32.00
	Red	XB5AV64	50.00	ZB5AV04	21.00	ZB5AV6	32.00	
	Orange	XB5AV65	50.00	ZB5AV05	21.00	ZB5AV6	32.00	
Via integral transformer with 1.2VA, 6V secondary. BA 9s incandescent bulb (included)								
	110...120V	White			ZB5AV01	21.00	ZB5AV3	123.00
	a.c.	Green			ZB5AV03	21.00	ZB5AV3	123.00
	50/60Hz	Red			ZB5AV04	21.00	ZB5AV3	123.00
		Orange			ZB5AV05	21.00	ZB5AV3	123.00
AC230V50Hz	White	XB5AV41	156.00	ZB5AV01	21.00	ZB5AV4	138.00	
AC220..240V	Green	XB5AV43	156.00	ZB5AV03	21.00	ZB5AV4	138.00	
- 60Hz	Red	XB5AV44	156.00	ZB5AV04	21.00	ZB5AV4	138.00	
	Orange	XB5AV45	156.00	ZB5AV05	21.00	ZB5AV4	138.00	

Accessories: Guards

(1) No isolation function is possible when this guard is fitted.



Description	Application	Colour	Reference	Price (RM)
Metal guards	For Emergency Stop function only, pushbuttons: XB5AT8, XB5AS8, XB5AS9	Chromium plated	ZBZ1600	224.00
		Black	ZBZ1602	137.00
		Red	ZBZ1604	137.00
		Yellow	ZBZ1605	137.00
		Blue	ZBZ1606	141.00

Contact functions

Screw clamp terminal connections (Schneider Electric anti-retightening system)




Contacts for standard applications							
Description	Type of contact	Type of contact		Sold in lots of	Unit Reference	Price	
		N/O	N/C			RM	RM
Contact blocks	Single	1	-	5	ZBE101	22.00	
		-	1	5	ZBE102	22.00	
	Double	2	-	5	ZBE203	93.00	
		-	2	5	ZBE204	96.00	
		1	1	5	ZBE205	96.00	

Harmony® XB6, Plastic Ø16

Spring return illuminated pushbuttons,
with integral LED
Emergency stop devices

Illuminated pushbuttons (with 12...24V LED included)

XB6 DW●●●B



Type of push	Type of contact		Colour of push	Complete unit		Head		Body					
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)				
Flush of push													
	1	-	White	XB6DW1B1B	132.00	ZB6DW1	56.00	ZB6ZB11B	98.00				
			Green	XB6DW3B1B	132.00					ZB6DW3	56.00	ZB6ZB31B	96.00
			Red	XB6DW4B2B	132.00					ZB6DW4	56.00	ZB6ZB42B	96.00
1	1	White	XB6DW1B5B	139.00	ZB6DW1	56.00	ZB6ZB15B	111.00					
		Green	XB6DW3B5B	140.00					ZB6DW3	56.00	ZB6ZB35B	111.00	
		Red	XB6DW4B5B	139.00					ZB6DW4	56.00	ZB6ZB45B	106.00	
	1	-	White	XB6CW1B1B	132.00	ZB6CW1	55.00	ZB6ZB11B	98.00				
			Green	XB6CW3B1B	132.00					ZB6CW3	56.00	ZB6ZB31B	96.00
			Red	XB6CW4B2B	132.00					ZB6CW4	56.00	ZB6ZB42B	96.00
1	1	White	XB6CW1B5B	139.00	ZB6CW1	55.00	ZB6ZB15B	111.00					
		Green	XB6CW3B5B	139.00					ZB6CW3	56.00	ZB6ZB35B	111.00	
		Red	XB6CW4B5B	139.00					ZB6CW4	56.00	ZB6ZB45B	106.00	
	1	-	White	XB6AW1B1B	128.00	ZB6AW1	53.00	ZB6ZB11B	98.00				
			Green	XB6AW3B1B	128.00					ZB6AW3	53.00	ZB6ZB31B	96.00
			Red	XB6AW4B2B	128.00					ZB6AW4	53.00	ZB6ZB42B	96.00
1	1	White	XB6AW1B5B	134.00	ZB6AW1	53.00	ZB6ZB15B	111.00					
		Green	XB6AW3B5B	134.00					ZB6AW3	53.00	ZB6ZB35B	111.00	
		Red	XB6AW4B5B	134.00					ZB6AW4	53.00	ZB6ZB45B	106.00	

Emergency stop trigger action and mechanical latching pushbuttons Ø30 (red)

XB6 AS8349B









XB6 AS9349B

Shape of head	Type of contact		Type of reset	Complete unit		Head		Body	
	N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
	-	2	Turn to release	XB6AS8349B	155.00	ZB6AS834	104.00	ZB6Z4B	64.00
	-	2	Key release (key no. 200)	XB6AS9349B	205.00	ZB6AS934	161.00	ZB6Z5B	66.00

Harmony® XB6, Plastic Ø16

Illuminated pushbuttons, latching with integral LED
Pilot lights with integral LED







Illuminated pushbuttons, latching, flush of push (with 12...24V LED included)

	Type of push	Type of contact		Colour of push	Complete unit		Head		Body	
		N/O	N/C		Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
 XB6 DF●●●B		1	-	Green	XB6DF3B1B	132.00	ZB6DF3	57.00	ZB6ZB31B	96.00
		-	1	Red	XB6DF4B2B	132.00	ZB6DF4	57.00	ZB6ZB42B	96.00
	1	1	White	XB6DF1B5B	138.00	ZB6DF1	57.00	ZB6ZB15B	111.00	
			Green	XB6DF3B5B	138.00	ZB6DF3	57.00	ZB6ZB35B	111.00	
			Red	XB6DF4B5B	138.00	ZB6DF4	57.00	ZB6ZB45B	106.00	
	 XB6 CF●●●B		1	-	Green	XB6CF3B1B	132.00	ZB6CF3	99.00	ZB6ZB31B
-			1	Red	XB6CF4B2B		ZB6CF4	96.00	ZB6ZB42B	96.00
1		1	White	XB6CF1B5B	137.00	ZB6CF1	98.00	ZB6ZB15B	111.00	
			Green	XB6CF3B5B	137.00	ZB6CF3	99.00	ZB6ZB35B	111.00	
			Red	XB6CF4B5B	137.00	ZB6CF4	96.00	ZB6ZB45B	106.00	
 XB6 AF●●●B			1	-	Green	XB6AF3B1B	128.00	ZB6AF3	54.00	ZB6ZB31B
	-		1	Red	-		ZB6AF4	54.00	ZB6ZB42B	96.00
	1	1	Green	XB6AF3B5B	139.00	ZB6AF3	54.00	ZB6ZB35B	111.00	
			Red	-		ZB6AF4	54.00	ZB6ZB45B	106.00	





Pilot lights (with 12...24V AC/DC LED included)

	Shape of head	Colour of lens cap	Complete unit		Head		Body	
			Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
 XB6 DV●●BB		White	XB6DV1BB	80.00	ZB6DV1	54.00	ZB6EB1B	106.00
		Green	XB6DV3BB	80.00	ZB6DV3	54.00	ZB6EB3B	106.00
		Red	XB6DV4BB	80.00	ZB6DV4	54.00	ZB6EB4B	106.00
		Yellow	XB6DV5BB	80.00	ZB6DV5	54.00	ZB6EB5B	104.00
		White	XB6CV1BB	81.00	ZB6CV1	52.00	ZB6EB1B	106.00
 XB6 CV●●BB		Green	XB6CV3BB	80.00	ZB6CV3	54.00	ZB6EB3B	106.00
		Red	XB6CV4BB	80.00	ZB6CV4	52.00	ZB6EB4B	104.00
		Yellow	XB6CV5BB		ZB6CV5		ZB6EB5B	
		White	XB6AV1BB	80.00	ZB6AV1	54.00	ZB6EB1B	106.00
 XB6 AV●●BB		Green	XB6AV3BB	80.00	ZB6AV3	54.00	ZB6EB3B	106.00
		Red	XB6AV4BB	80.00	ZB6AV4	54.00	ZB6EB4B	106.00
		Yellow	XB6AV5BB	80.00	ZB6AV5	54.00	ZB6EB5B	104.00

Selector switches with standard black handle (switching angle: 60°)

	Shape of head	Type of contact		Positions		Complete unit		Head		Body	
		N/O	N/C	Number	Type	Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
 XB6 DD●●●B		1	-	2-stay put	↙	XB6DD221B	85.00	ZB6DD22	61.00	ZB6Z1B	61.00
		1	1	2-stay put	↙	XB6DD225B	111.00	ZB6DD22	61.00	ZB6Z5B	66.00
				3-stay put	↘	XB6DD235B	111.00	ZB6DD23	62.00	ZB6Z5B	66.00
 XB6 CD●●●B		1	-	2-stay put	↙	XB6CD221B	86.00	ZB6CD22	74.00	ZB6Z1B	61.00
		1	1	2-stay put	↙	XB6CD225B	111.00	ZB6CD22	74.00	ZB6Z5B	66.00
				3-stay put	↘	XB6CD235B	111.00	ZB6CD23	74.00	ZB6Z5B	66.00
 XB6 AD●●●B		1	-	2-stay put	↙	XB6AD221B	85.00	ZB6AD22	72.00	ZB6Z1B	61.00
		1	1	2-stay put	↙	XB6AD225B	111.00	ZB6AD22	72.00	ZB6Z5B	66.00
				3-stay put	↘	XB6AD235B	111.00	ZB6AD23	72.00	ZB6Z5B	66.00

Key switches (Ronis key no. 200) (1)

	Shape of head	Type of contact		Positions		Complete unit		Head		Body	
		N/O	N/C	Number	Type	Reference	Price (RM)	Reference	Price (RM)	Reference	Price (RM)
 XB6 DG●●●B		1	1	3-stay put	↕	XB6DGH5B	189.00	ZB6DGH	155.00	ZB6Z5B	61.00
		1	1	2-stay put	↕	XB6CGC5B	189.00	ZB6CGC	155.00	ZB6Z5B	61.00
				3-stay put	↕	XB6CGH5B	189.00	ZB6CGH	158.00	ZB6Z5B	61.00
 XB6 CG●●●B		1	1	2-stay put	↕	XB6AGC5B	189.00	ZB6AGC	143.00	ZB6Z5B	61.00

(1) Key no. 200, withdrawal from all positions.



Monolithic pushbutton



XB7 NA●●

Shape of head	Type of push	Type of contacts		Marking		Colour of push	Sold in lots of	Reference	Price (RM)
		N/O	N/C	Text	Colour				
Spring return pushbuttons without marking									
	Flush	1	-	-	-	White	10	XB7NA11	48.00
		1	-	-	-	Black	10	XB7NA21	45.00
		1	-	-	-	Green	10	XB7NA31	45.00
		1	-	-	-	Yellow	10	XB7NA81	46.00
		1	1	-	-	White	10	XB7NA15	51.00
		1	1	-	-	Black	10	XB7NA25	51.00
		1	1	-	-	Green	10	XB7NA35	51.00
		1	1	-	-	Red	10	XB7NA45	51.00
		1	1	-	-	Blue	10	XB7NA65	51.00
		1	1	-	-	Yellow	10	XB7NA85	51.00
		-	1	-	-	Red	10	XB7NA42	45.00
		2	-	-	-	Black	10	XB7NA23	51.00
2	-	-	-	Green	10	XB7NA33	51.00		



Latch type pushbutton without marking									
Shape of head	Type of push	Type of contacts	Marking	Colour of push	Sold in lots of	Reference	Price (RM)		
	Flush	1	-	-	Black	10	XB7NH21	49.00	
		1	-	-	Green	10	XB7NH31	47.00	
		1	1	-	Black	10	XB7NH25	51.00	
		1	1	-	Green	10	XB7NH35	51.00	

Monolithic selector/key switches



XB7 ND2●



XB7 NA●●

Type of head	Type of operator	Type of contacts		Number and type of positions	Reference	Price (RM)	
		N/O	N/C				
	Standard black handle	1	-	2 stay put		XB7ND21	44.00
		1	1	2 stay put		XB7ND25	50.00
		2	-	3 stay put		XB7ND33	62.00
	Key release, (n455)	1	-	2 - key withdrawal from LH pos.		XB7NG21	74.00
		2	-	3 - key withdrawal from centre pos.		XB7NG33	82.00

Monolithic emergency switching off mushroom head pushbuttons, Ø40 (Sold in lots of 10)



XB7 NS8445

Type of head	Type of operator	Type of contacts		Colour of push	Reference	Price (RM)
		N/O	N/C			
	Turn to release	-	1	Red	XB7NS8442	106.00
		1	1	Red	XB7NS8445	114.00
	Push Pull	-	1	Red	XB7NT842	129.00
		1	1	Red	XB7NT845	144.00
		1	1	Red	XB7NS9445	175.00

Monolithic illuminated pushbuttons, projecting push, with integral LED



XB7 NW33●1

Type of Push and Contacts	Colour of lens	Sold in lots of	Type of contacts		Reference	Price (RM)
			N/O	N/C		
Spring return push with N/O or N/C contacts -3	Green	10	1	-	XB7NW33B1	106.00
	Red	10	1	-	XB7NW34B1	104.00
		10	-	1	XB7NW34B2	106.00
	Orange	10	1	-	XB7NW35B1	104.00
	Blue	10	1	-	XB7NW36B1	104.00
	Clear	10	1	-	XB7NW37B1	104.00
	Yellow	10	1	-	XB7NW38B1	104.00

Pilot light with integral LED ("true" colours) (Sold in lots of 10)



XB7 EV0●●P



Shape of head	Connection type	Supply voltage (V)	Colour of lens	Reference	Price (RM)
	Screw terminal	24 a.c./d.c.	Green	XB7EV03BP	39.00
			Red	XB7EV04BP	39.00
			Yellow	XB7EV05BP	29.00
			Blue	XB7EV06BP	39.00
			Clear	XB7EV07BP	39.00
			Orange	XB7EV08BP	29.00
		120 a.c. 50/60Hz	Green	XB7EV03GP	31.00
			Red	XB7EV04GP	31.00
			Yellow	XB7EV05GP	31.00
			Blue	XB7EV06GP	31.00
			Clear	XB7EV07GP	31.00
			Orange	XB7EV08GP	31.00
	230 a.c. 50/60Hz	Green	XB7EV03MP	39.00	
		Red	XB7EV04MP	39.00	
		Yellow	XB7EV05MP	39.00	
		Blue	XB7EV06MP	39.00	
		Clear	XB7EV07MP	39.00	
		Orange	XB7EV08MP	39.00	
	Faston connection	24 a.c./d.c.	Green	XB7EV03BP3	37.00
			Red	XB7EV04BP3	37.00
			Yellow	XB7EV05BP3	37.00
		230 a.c. 50/60Hz	Green	XB7EV03MP3	48.00
			Red	XB7EV04MP3	49.00
			Yellow	XB7EV05MP3	48.00
		Blue	XB7EV06MP3	48.00	

Pilot light with BA 9s base fitting (Sold in lots of 10)



XB7 EV●●P

Shape of head	Supply	Description	Supply voltage (V)	Colour of lens	Reference	Price (RM)
	Direct	For incandescent bulb (not included) (1) BA 9s base fitting	≤ 250 a.c./d.c.	Green	XB7EV63P	41.00
				Red	XB7EV64P	41.00
				Yellow	XB7EV65P	41.00
				Blue	XB7EV66P	40.00
				Clear	XB7EV67P	40.00
				Orange	XB7EV68P	40.00
	Direct through resistor	With incandescent bulb 130V - 2.6W included BA 9s base fitting	230 50/60Hz	Green	XB7EV73P	72.00
				Red	XB7EV74P	72.00
				Yellow	XB7EV75P	72.00
				Blue	XB7EV76P	71.00
				Clear	XB7EV77P	72.00
				Orange	XB7EV78P	72.00

(1) Bulb rating for direct supply pilot lights: 250V max; 2.6W max.

Control Stations

For Harmony® XB5 plastic Ø22
Complete stations
(screw clamp terminal connections)

Start or Stop function (light grey base "RAL 7035", dark grey lid "RAL 7016")



XALD102



XALD101H29



XALD164

Description	Type of push	Type of contacts		Marking	Reference	Price (RM)
		N/O	N/C			
Marking on pushbutton						
1 spring return pushbutton	Flush green	1	-	I	XALD102	110.00
				Start	XALD103	151.00
		1	1	I	XALD102E	177.00
Marking on legend holder and legend below head						
1 spring return pushbutton	Flush green	1	-	Start	XALD101H29	147.00
Marking on legend below head						
1 mushroom head pushbutton Ø40mm spring return	Red	-	1	Arrêt	XALD164	140.00

Emergency Stop function (light grey base "RAL 7035", yellow lid "RAL 1012")



XALK178●



XB7ND2●



XALK198

Description	Type of push	Type of contacts		Marking	Reference	Price (RM)
		N/O	N/C			
Unmarked						
1 mushroom head pushbutton Ø40mm, red	Red	-	1	-	XALK178	200.00
		-	2	-	XALK178F (1)	214.00
		1	1	-	XALK178E (1)	229.00
Turn to release		1	2	-	XALK178G (1)	247.00
1 mushroom head pushbutton Ø40mm, red	Red	-	1	-	XALK188 (1)	323.00
		-	2	-	XALK188F	338.00
		1	1	-	XALK188E (1)	353.00
Key release		1	2	-	XALK188G	369.00
1 mushroom head pushbutton Ø40mm, red	Red	-	1	-	XALK198 (1)	239.00
Push-pull						

(1) Please add H7 for UL/CSA conformity, example: XALK178H7.

Control Stations

For Harmony® XB5 plastic Ø22
Complete stations
(screw clamp terminal connections)

Start-Stop function (light grey base "RAL 7035", dark grey lid "RAL 7016")



XALD215



XALD211H29



XALD363

Description	Type of push	Type of contacts		Marking	Reference	Price (RM)
		N/O	N/C			
Marking on pushbutton						
2 spring return pushbutton	1 flush green	1	-	I O	XALD213	183.00
	1 flush red	-	1		Start Stop	XALD215
		1	1	I O	XALD213E	304.00
		1	1			
	1 flush green	1	-	I O	XALD214	261.00
	1 projecting red	-	1			

Marking on legend holder and legend below head						
2 spring return pushbutton	1 flush green	1	-	Start Stop	XALD211H29	226.00
	1 flush red	-	1			
1 selector switch	Standard handle	1	-	O - I	XALD134	155.00
2-position stay put						

Description	Type of push	Type of contacts		Marking	Pilot light supply	Reference	Price (RM)
		N/O	N/C				
With pilot light and marking on pushbutton							
2 spring return pushbuttons and 1 pilot light with integral red LED	1 flush green	1	-	I O	≈ 24	XALD363B	318.00
	1 flush red	-	1			~ 120	XALD363G
					~ 230	XALD363M	456.00

Two function (light grey base "RAL 7035", dark grey lid "RAL 7016")



XALD222

Description	Type of push	Type of contacts		Marking	Reference	Price (RM)
		N/O	N/C			
Marking on pushbutton						
2 spring return pushbuttons	1 flush white	1	-	↑ ↓	XALD222	249.00
	1 flush black	1	-			
		1	1	↑ ↓	XALD222E	260.00
		1	1			

Three function (light grey base "RAL 7035", dark grey lid "RAL 7016")



XALD339

Description	Type of push	Type of contacts		Marking	Reference	Price (RM)
		N/O	N/C			
Marking on pushbutton						
3 spring return pushbuttons	1 flush green	1	-	I O II	XALD339	267.00
	1 flush red	-	1			
	1 flush green	1	-			
	1 flush white	1	-	↑ O ↓	XALD324	278.00
	1 flush red	-	1			
	1 flush black	1	-			
	1 flush white	1	-	↑ O ↓	XALD325	350.00
	1 flush projecting red	-	1			
	1 flush black	1	-			
2 spring return pushbuttons	1 flush white	1	-	↑ O ↓	XALD328	383.00
	1 mushroom	-	1			
+ 1 latching mushroom head pushbutton Ø30mm	head red (1)	1	-			
	1 flush black					

(1) Standard "turn to release".

Control Stations

For Harmony® XB5 plastic Ø22
Stations for customer assembly

Empty enclosures



XAL-D02

Description	Nos. of ways	Yellow lid "RAL 1012" for Emergency stop function		Dark grey lid "RAL 7016"	
		Reference	Price (RM)	Reference	Price (RM)
For normal environments (with stainless steel lid fixing screws)					
Light grey base "RAL 7035"	1	XALK01	103.00	XALD01	65.00
	2	XALK02	130.00	XALD02	81.00
	3	XALK03	135.00	XALD03	101.00
	4	XALK04	153.00	XALD04	135.00
	5	XALK05	180.00	XALD05	183.00

Electrical blocks and accessories (for mounting on metal plate at back of enclosure)



ZEN-L1111



ZAL-VB

Description	Type	Colour	Sold in lots of	Unit reference	Per Pc Price (RM)
Electrical blocks with screw clamp terminal connections					
Standard contact blocks (1)	N/O contact	-	5	ZENL1111	29.00
	N/C contact	-	5	ZENL1121	29.00
Light blocks with integral LED (1)	24V a.c./d.c.	White	5	ZALVB1	66.00
		Green	5	ZALVB3	66.00
		Red	5	ZALVB4	66.00
		Yellow	5	ZALVB5	66.00
		Blue	5	ZALVB6	65.00
		48...120V a.c.	White	5	ZALVG1
		Green	5	ZALVG3	77.00
		Red	5	ZALVG4	77.00
		Yellow	5	ZALVG5	77.00
		230...240V a.c.	White	5	ZALVM1
		Green	5	ZALVM3	114.00
		Red	5	ZALVM4	114.00
		Yellow	5	ZALVM5	114.00
		Blue	5	ZALVM6	114.00

(1) A maximum of 3 electrical blocks may be fitted per associated head.

Heads for pilot lights




ZB5 CA2

Shape of head	Colour	Reference	Price (RM)
 For use with bodies comprising a light block with integral LED	White	ZB5CV013	60.00
	Green	ZB5CV033	60.00
	Red	ZB5CV043	60.00
	Yellow	ZB5CV053	60.00
	5 colours (2)	ZB5CV003	91.00

Heads for spring return illuminated pushbuttons




ZB5 CW313

Shape of head	Type of push	Colour	Reference	Price (RM)
 For use with bodies comprising a light block with integral LED	Flush for insertion of legend	White	ZB5CW313	81.00
		Green	ZB5CW333	81.00
		Red	ZB5CW343	81.00
		Blue	ZB5CW363	81.00

(2) Head supplied with 5 coloured lenses (white, green, red, yellow, blue) for insertion of a legend.

Operating head

Shape of head	Type of push	Reference	Price (RM)
 Mushroom	Emergency stop spring return	ZB5AC4	54.00
	Emergency stop key release	ZB5AS944	117.00
	Emergency stop turn to release	ZB5AS844	101.00
	Start "I" button (Green)	ZB5AA331	28.00
	Stop "O" button (Red)	ZB5AA432	27.00
	Selector switch 2 position	ZB5AD2	50.00
	Selector switch 3 position	ZB5AD3	50.00
	LED pilot light head (Green)	ZB5AV033	21.00
	LED pilot light head (Red)	ZB5AV043	21.00

Signalling Solutions

Harmony XVC Monolithic tower lights
 Ø40 and Ø60mm, complete, pre-wired
 tower lights

Complete, pre-wired tower lights Ø40mm



XVC4B•

XVC4B•5S

Description	Light source (included)	Voltage V	Signalling colours (1)		Reference	Price (RM)
			Steady	Flashing (2)		
For support tube mounting, 17mm						
Without buzzer	LED for steady light only	≈ 24	R	–	XVC4B1	529.00
			R, O, G	–	XVC4B3	657.00
			R, O, G, B	–	XVC4B4	722.00
			R, O, G, B, C	–	XVC4B5	829.00
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R	R	XVC4B15S	769.00
			R, O	R, O	XVC4B25S	862.00
			R, O, G	R, O, G	XVC4B35S	936.00
			R, O, G, B	R, O, G, B	XVC4B45S	1,041.00
			R, O, G, B, C	R, O, G, B, C	XVC4B55S	1,150.00
For base mounting						
Without buzzer	LED for steady light only	≈ 24	R	–	XVC4B1K	459.00
			R, O	–	XVC4B2K	517.00
			R, O, G	–	XVC4B3K	609.00
			R, O, G, B	–	XVC4B4K	704.00

Complete, pre-wired tower lights Ø60mm



XVC6B•

XVC6B•5SK

Description	Light source (included)	Voltage V	Signalling colours (1)		Reference	Price (RM)
			Steady	Flashing (2)		
For support tube mounting, 22mm						
Without buzzer	LED for steady light only	≈ 24	R, O	–	XVC6B2	675.00
			R, O, G	–	XVC6B3	741.00
			R, O, G, B	–	XVC6B4	859.00
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R, O, G	R, O, G	XVC6B35S	1,069.00
			R, O, G, B	R, O, G, B	XVC6B45S	1,187.00
			R, O, G, B, C	R, O, G, B, C	XVC6B55S	1,309.00
For base mounting						
Without buzzer	LED for steady light only	≈ 24	R	–	XVC6B1K	410.00
			R, O, G	–	XVC6B3K	651.00
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R	R	XVC6B15SK	736.00
			R, O, G	R, O, G	XVC6B35SK	937.00
			R, O, G, B	R, O, G, B	XVC6B45SK	1,054.00

Accessories for support tube mounting



XVCZ02

Description	Diameter mm	Minimum height to be added mm	Reference	Price (RM)
Metal fixing plate for XVC6B• and XVC6B•5S	100	30	XVCZ02	241.00
Metal fixing plate for XVC6B•K and XVC6B•5SK	81	21.6	XVCZ12	407.00

(1) Signalling colours: R: Red, G: Green, O: Orange, B: Blue, C: Clear. The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).

(2) Flashing function can be simply selected/programmed by wiring.

Signalling Solutions

Harmony XVC Monolithic tower lights
 Ø100mm, complete, pre-wired
 tower lights

Complete, pre-wired indicator banks Ø100mm



XVC 1B5K/XVC 1B5SK



XVC Z13

Description	Light source (included)	Voltage V	Signalling colours (1)		Reference	Price (RM)
			Steady	Flashing (2)		
For base mounting						
Without buzzer	LED for steady or flashing light	24	R	R	XVC1B1K	1,402.00
With flashing light			R, O	R, O	XVC1B2K	1,869.00
			R, O, G	R, O, G	XVC1B3K	2,473.00
			R, O, G, B	R, O, G, B	XVC1B4K	3,108.00
With buzzer	LED for steady or flashing light	24	R	R	XVC1B1SK	1,868.00
+ flashing light			R, O, G	R, O, G	XVC1B3SK	2,895.00
			R, O, G, B	R, O, G, B	XVC1B4SK	3,546.00

Accessories for mounting on vertical support

Description	Diameter mm	Minimum height to be added mm	Reference	Price (RM)
Vertical support metal fixing plate (3)	140	300	XVCZ13	783.00
Metal fixing bracket			XVCZ23	80.00

(1) Signalling colours: R: Red G: Green O: Orange B: Blue C: Clear The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).

(2) Flashing function can be simply selected/programmed by DIP switches in each luminous unit. It is also possible to regulate the flashing frequency.

(3) Chromium plated-steel extension tube.

Signalling Units

Harmony XVU Modular tower lights
 Ø 60 mm, for customer assembly



XVUC23



XVUC26



XVUC28



XVUC27



XVUC9S



XVUC21M



XVUZ02



XVUZ06

Illuminated LED units: IP 65

Description	Signalling Type	Characteristics		Colour	Reference	Price (RM)
		Voltage	Power			
High brightness LED units	Steady	24V	2.5 W	Green	XVUC23	178.00
			2.0 W	Red	XVUC24	178.00
			2.0 W	Orange	XVUC25	178.00
			2.5 W	Blue	XVUC26	206.00
	Blinking	24V	2.5 W	White	XVUC27	206.00
			2.5 W	Yellow	XVUC28	196.00
			1.2 W	Green	XVUC43	227.00
			0.9 W	Red	XVUC44	227.00
High brightness LED units			0.9 W	Orange	XVUC45	227.00
			1.2 W	Blue	XVUC46	227.00
			1.2 W	White	XVUC47	227.00
			1.2 W	Yellow	XVUC48	227.00
			1.5 W	Multi-color (green, red, orange, blue, white, yellow)	XVUC29	497.00
			1.5 W	Multi-color (green, red, orange, blue)	XVUC29	366.00

(1) 1 signal wire, 2 power wires. Adaptable for both NPN and PNP. Controlled by PLC dynamically.

Audible units: IP 54

Description	Characteristics		Colour	Reference	Price (RM)
	Voltage	Power			
Buzzer, adjustable 70...85 dB at 1 m/3.281 ft (4 configurations of audible signal)	24V	1.7W	Black	XVUC9S	201.00
			Silver	XVUC9SQ	225.00
Sound, adjustable 0...86 dB at 1m/3.281 ft (4 channels)	24V	1.7W	Black	XVUC9V	926.00
Pulse signal voice unit 0...86 dB at 1m/3.281 ft (16 channels) (2)	24V	1.7W	Black	XVUC9VP	908.00

Body units: IP 65

Description	Voltage	Colour	Reference	Price (RM)
Body unit with top cover (3)	24V	Black	XVUC21B	181.00
		Silver	XVUC21BQ	203.00
	~ 100 to 240V	Black	XVUC21M (4)	390.00
		Black	XVUC21MP (5)	390.00

(2) 1 signal wire, 2 power wires. Adaptable for both NPN and PNP. 16 channels can be controlled by PLC.

(3) Direct mounting plate XVUZ01 needed for direct mounting

(4) NPN type

(5) PNP type

Accessories

Description	Voltage	Colour	Reference	Price (RM)
Body extender	24V	Black	XVUC020	207.00
Direct mounting plate		Black	XVUZ01	143.00
			XVUZ03 (6)	275.00
			XVUZ04 (7)	286.00
			XVUZ01Q	159.00
Aluminium fixing plate with 100 mm/3.937 in. pole		Black	XVUZ02	218.00
		Silver	XVUZ02Q	276.00
Aluminium adjustment pole and fixing plate for height adjustment (8)		Black	XVUZ05	768.00
Flexible mounting element for use on horizontal or vertical support, IP55		Black	XVUZ06	304.00

(6) Two-foot mounting

(7) Four-foot mounting

(8) Only for use with DC body unit.

Signalling Solutions

Harmony XVR Rotating beacons
 Ø 100 (multi-functional LED beacon)

Complete, pre-wired rotating mirror beacons



XVR3B03



XVR3B04S



XVR3E06

Diameter mm	Sound option	IP degree of protection	Voltage V	Colour	Reference	Price (RM)		
Ø 100	Without buzzer	IP 65 (Upright) IP 23(Sideways, inverted)	~ 12-24	Green	XVR3B03	1,196.00		
				Red	XVR3B04	1,196.00		
				Orange	XVR3B05	1,196.00		
		Blue	XVR3B06	1,196.00				
		~ 100-230	Green	XVR3M03	1,185.00			
			Red	XVR3M04	1,185.00			
	Orange		XVR3M05	1,185.00				
	Blue		XVR3M06	1,185.00				
	Ø 100		Without buzzer	IP 23 (Upright, sideways, inverted)	~ 12-24	Green	XVR3B03S	1,581.00
						Red	XVR3B04S	1,581.00
		Orange				XVR3B05S	1,581.00	
		Blue				XVR3B06S	1,581.00	
~ 100-230		Green				XVR3M03S	1,497.00	
		Red				XVR3M04S	1,497.00	
Ø 100	Without buzzer	IP 65 (Upright) IP 23 (Sideways, inverted)	~ 48	Blue	XVR3M06S	1,497.00		
				Red	XVR3E03	1,300.00		
		Orange		XVR3E04	1,300.00			
		Green		XVR3E05	1,300.00			
				Blue	XVR3E06	1,300.00		



XVS14BMW

Description	Voltage (V)	Colour	Reference	Price (RM)
Multisound siren 105 dB, 43 tones	≈ 12/24	White	XVS14BMW	1,771.00
	120 a.c.	White	XVS14GMW	1,784.00
	120 - 230 a.c.	White	XVS14MMW	1,784.00



XVS72BM●●

Electronic alarms 90 dB, 16 tones Panel Mount DIN72	≈ 12/24	PNP, Black	XVS72BMBP	892.00
		PNP, White	XVS72BMWP	899.00
		PNP, White	XVS72BMBN	899.00
		NPN, White	XVS72BMWN	892.00

Pendant Control Stations

Double insulated, type XAC-A

For control circuits

Empty enclosures and separate components

Empty enclosures



XACA●●

Description	Number of ways	Reference	Price (RM)
Enclosure comprising:	2	XACA02	300.00
- the enclosure,	3 (1)	XACA03	287.00
- internal mounting plate,	4	XACA04	318.00
- cable sleeve for Ø8 to 26mm cable,	5 (1)	XACA05	344.00
- internal cable clamp,	6	XACA06	344.00
- suspension ring,	8	XACA08	358.00
- cable tie (for tightening sleeve onto cable).	12	XACA12	495.00

Contact blocks for front mounting



ZB2BE10●

XENG1491

Description	Application	Function	Reference	Price (RM)
Single block, spring return	Single speed	N/O	ZB2BE101	25.00
slow break		N/C	ZB2BE102	25.00
		N/C + N/O + N/O simultaneous (2)	XENG1491	134.00
Double block, latching	2 speed	N/C + N/O + N/O staggered (2)	XENG1191	135.00
	speed	N/O	XENG3791	196.00
slow break (3)		N/C		

Isolating switch, slow break for front mounting



XENT1192

For mounting in enclosure	Application	Function	Reference	Price (RM)
XACA03 (frontal cut-out)	"Emergency stop"	N/C + N/C + N/C with positive opening operation	XENT1192	297.00
XACA,A06, A08 (frontal or base cut-out)				

Contact blocks for base mounting



XACS10●

Description	Function	Reference	Price (RM)
Spring return	N/O	XACS101	100.00
slow break (4)	N/C	XACS102	97.00
	N/O + N/O	XACS103	107.00
	N/C + N/C	XACS104	108.00
	N/C + N/O	XACS105	103.00

Pilot light bodies for front mounting



ZB2BV006

Description	Supply voltage	Reference	Price (RM)
Direct supply Bulb not included (5)	≤400V	ZB2BV006	71.00
Direct supply, through resistor Incandescent BA 9 s base fitting 130V bulb supplied	230V	ZB2BV007	123.00

(1) Enclosures with 3 cut-outs XACA03 and 5 cut-outs XACA05 cannot be fitted with a mounting adaptor for base mounted units.

(2) Only for use with XACA9 III operators.

(3) Not suitable for use with the following operating heads: ZA2BB, ZA2BD, ZA2BG and ZA2BS.

(4) Not suitable for use with 3-position operating heads ZA2BD and ZA2BG or for mounting in enclosure XACA039 and XACA03.

(5) Bulb types for use with direct supply: BA9s base fitting incandescent bulb $U \leq 130V$ or neon bulb $110V \leq U \leq 400V$; maximum power 2.6W, maximum Ø11mm, maximum length 28mm.

Pendant Control Stations

Double insulated, type XAC-A

For control circuits

Separate components

Operating heads for front mounting



XACA94**

Description	Colour	Sold in lots of	Reference	Per Pc Price (RM)
Booted operators, complete	White	10	XACA9411	29.00
	Black	10	XACA9412	29.00
	Green	10	XACA9413	29.00
	Red	10	XACA9414	29.00
	Yellow	10	XACA9415	29.00
	Blue	10	XACA9416	29.00

Operating heads for front or base mounting



ZA2BS834



ZA2BD*



ZA2BG4



ZA2BB2

Description	Colour	Type	Reference	Price (RM)
Mushroom head, trigger action, latching Turn to release (Emergency stop)	Red	Ø30mm	ZA2BS834	182.00
		Ø40mm	ZA2BS844	182.00
Mushroom head, latching Key release - Ronis no.455 Key withdrawal in rest (unactuated) position (Emergency stop)	Red	Ø30mm Ø40mm	ZA2BS934 ZA2BS944	379.00 314.00
Selector switches, standard handle (Not to be used with XENGIIII contact blocks)	Black	2 position stay put	ZA2BD2	42.00
		3 position stay put	ZA2BD3	42.00
		(1)		
Key switches (Ronis key no.455) Key withdrawal in left and right hand positions	-	2 position stay put	ZA2BG4	218.00
		3 position stay put	ZA2BG5	
Wobblesticks (2) Operates in all directions for "Fast stop" function	Black	-	ZA2BB2	797.00

Pilot light heads



ZA2BV0*

Description	Colour	Reference	Price (RM)
For use with incandescent bulbs Lens cap with fixing bezel	White	ZA2BV01	36.00
	Green	ZA2BV03	36.00
	Red	ZA2BV04	36.00
	Yellow	ZA2BV05	36.00
	Blue	ZA2BV06	36.00

(1) Only suitable for front mounting.

(2) Base mounting recommended.

Pendant Control Stations

Double insulated, type XAC-A
For control circuits
Separate components

Bulbs (Sold in lots of 10)



DL1 C●●●●



DL1 CF●●●●

Description	Voltage	Sold in lots of	Reference	Per Pc Price (RM)
Incandescent	6V	10	DL1CB006	22.00
BA 9s base fitting	12V	10	DL1CE012	26.00
Maximum power : 2.6W	24V	10	DL1CE024	21.00
Maximum Ø: 11mm	48V	10	DL1CE048	24.00
Maximum length: 28mm	130V	10	DL1CE130	37.00
Neon	110V	10	DL1CF110	38.00
BA 9s base fitting	230V	10	DL1CF220	39.00
Maximum power : 2.6W				
Maximum Ø: 11mm				
Maximum length: 28mm				

Complementary accessories, tools



XAC A960



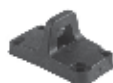
XAC A009



XAC B961



ZB2 SZ3



XAC A971

Description	Reference	Price (RM)
Protective cable sleeve For cable Ø8 to 26mm	XACA960	110.00
Mechanical interlock for 2 operators with fixing screws	XACA009	43.00
Blanking plug With seal and fixing nut	ZB2SZ3	16.00
Adaptor for self-support cable type BBAP Mounted with protective sleeve for cable Ø8 to 26mm	XACB961	56.00
Lower supporting -	XACA971	52.00
Protective guards for base mounted units For selector switch (std. handle) or mushroom head pushbutton	XACA982	59.00
	XACA983	59.00
Bulb extractor For BA 9s base fitting bulbs	XBFX13	23.00

Pendant Control Stations







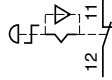

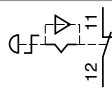

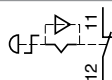

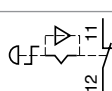
Double insulated with intuitive operation,
type XAC-A “Pistol grip”
For control circuits
Complete stations “ready-for-use”



XACA201



XACA2014

For control of single-speed hoist motors								
Functions	Number of operators	Type of operators	Contact block(s) and scheme		Reference	Price (RM)		
			Per direction	For Emergency stop				
 2 mechanically interlocked	2	Standard	1 N/O ZB2 BE101		-	XACA201	438.00	
			1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA205	489.00	
		Booted	1 N/O ZB2 BE101		-	XACA211	473.00	
			1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA215	479.00	
 2 mechanically interlocked + 1 trigger action latching Emergency stop Ø30mm operator ZA2BS834 (1)	2	Standard	1 N/O ZB2 BE101		1 N/C ZB2 BE102		XACA2014	581.00
			1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		1 N/C ZB2 BE102		XACA2054	655.00
		Booted	1 N/O ZB2 BE101		1 N/C ZB2 BE102		XACA2114	592.00
			1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		1 N/C ZB2 BE102		XACA2154	493.00

(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

Pendant Control Stations

Double insulated, type XAC-A

For control circuits

Complete stations “ready-for-use”

DF56523



XAC A271
XAC A281

DF56524



XAC A2714
XAC A2814

DF56524



XAC A27141
XAC A28141

For control of single-speed motors					
Functions	Number of operators	Contact block(s) and scheme	Reference	Price (RM)	
	2 mechanically interlocked	1 N/O ZB2 BE101	-	XACA271	507.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101	-	XACA281	473.00
	2 mechanically interlocked + 1 trigger action latching Emergency stop Ø30mm operator ZA2BS834 (1)	1 N/O ZB2 BE101	1 N/C ZB2 BE102	XACA2714 (1)	619.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101	1 N/C ZB2 BE102	XACA2814 (1)	648.00
		1 N/O ZB2 BE101	1 N/C + N/C + N/C XEN T1192	XACA27141 (1)	922.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101	1 N/C + N/C + N/C XEN T1192	XACA28141 (1)	1,004.00

(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

Pendant Control Stations

Double insulated, type XAC-A

For control circuits

Complete stations "ready-for-use"

13



XACA471
XACA481



XACA47141
XACA48141



XACA671
XACA681
























XACA67141
XACA68141



XACA871
XACA881

For control of single-speed motors

Functions	Number of operators	Contact block(s) and scheme		Reference	Price (RM)
		Per direction	For Emergency stop		
 4 mechanically interlocked between pairs	4	1 N/O ZB2 BE101		-	XACA471 685.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA481 549.00
 6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø40mm operator ZA2BS844 (1)	6	1 N/O ZB2 BE101		1 N/C ZB2 BE102	XACA4714 (1) 751.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		1 N/C ZB2 BE102	XACA4814 (1) 806.00
 6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø40mm operator ZA2BS844 (1)	6	1 N/O ZB2 BE101		1 N/C + N/C + N/C XEN T1192	XACA47141 (1) 785.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		1 N/C + N/C + N/C XEN T1192	XACA48141 (1) 806.00
 6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø40mm operator ZA2BS844 (1)	6	1 N/O ZB2 BE101		-	XACA671 914.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA681 707.00
 6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø40mm operator ZA2BS844 (1)	6	1 N/O ZB2 BE101		1 N/C ZB2 BE102	XACA6714 1,064.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		1 N/C ZB2 BE102	XACA6814 1,130.00
 6 mechanically interlocked between pairs + 1 trigger action latching Emergency stop Ø40mm operator ZA2BS844 (1)	6	1 N/O ZB2 BE101		1 N/C + N/C + N/C XENT1192	XACA68141 (1) 1,237.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA68141 (1) 1,237.00
 8 mechanically interlocked between pairs	8	1 N/O on 7 operators ZB2BE101 and 1 N/C on the 8th operator ZB2BE102		-	XACA871 1,089.00
		1 N/C + 1 N/O ZB2 BE102 + ZB2 BE101		-	XACA881 904.00




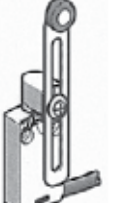
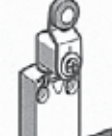


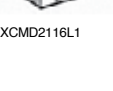
(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850: 2006, machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

Limit Switches & Sensors

Telemecanique Limit Switches	14
XCMD - Miniature design, metal	14-1
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Limit Switches

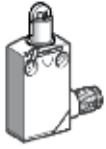
Osiswitch® Universal, Osiconcept®
 Miniature design, metal, type XCMD
 Pre-cabled

 XCMD2110L1		 XCMD2111L1		Contacts	Type of head	Switch actuation	Type of operator	Reference	Price (RM)
 XCMD21F0L1		 XCMD2145L1		2-pole N/C+N/O snap action (1)	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2110L1	326.00
							Metal end plunger with elastomer boot	XCMD2111L1	356.00
						By 30° cam	Steel roller plunger	XCMD2102L1	350.00
 XCMD2115L1		 XCMD2116L1		2-pole N/C+N/O break before make, slow break (1)	Plunger (fixing by the body)	On end	Metal end plunger with elastomer boot	XCMD2511L1	360.00
						By 30° cam	Steel roller plunger	XCMD2502L1	390.00
						By 30° cam	Steel roller lever	XCMD2516L1	379.00
 XCMD2145L1		 XCMD2145L1		2-pole N/C+N/O break before make, slow break (1)	Rotary (fixing by the body)	By 30° cam	Variable length thermoplastic roller lever	XCMD2145L1	380.00
						By 30° cam	Variable length thermoplastic roller lever	XCMD2545L1	389.00

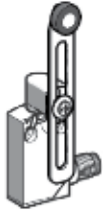
(1) N/C contact with positive opening operation.

Limit Switches

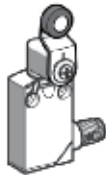
Osiswitch® Universal, Osiconcept®
 Miniature design, metal, type XCMD
 Integral or remote connector



XCMD2110M12



XCMD2111M12

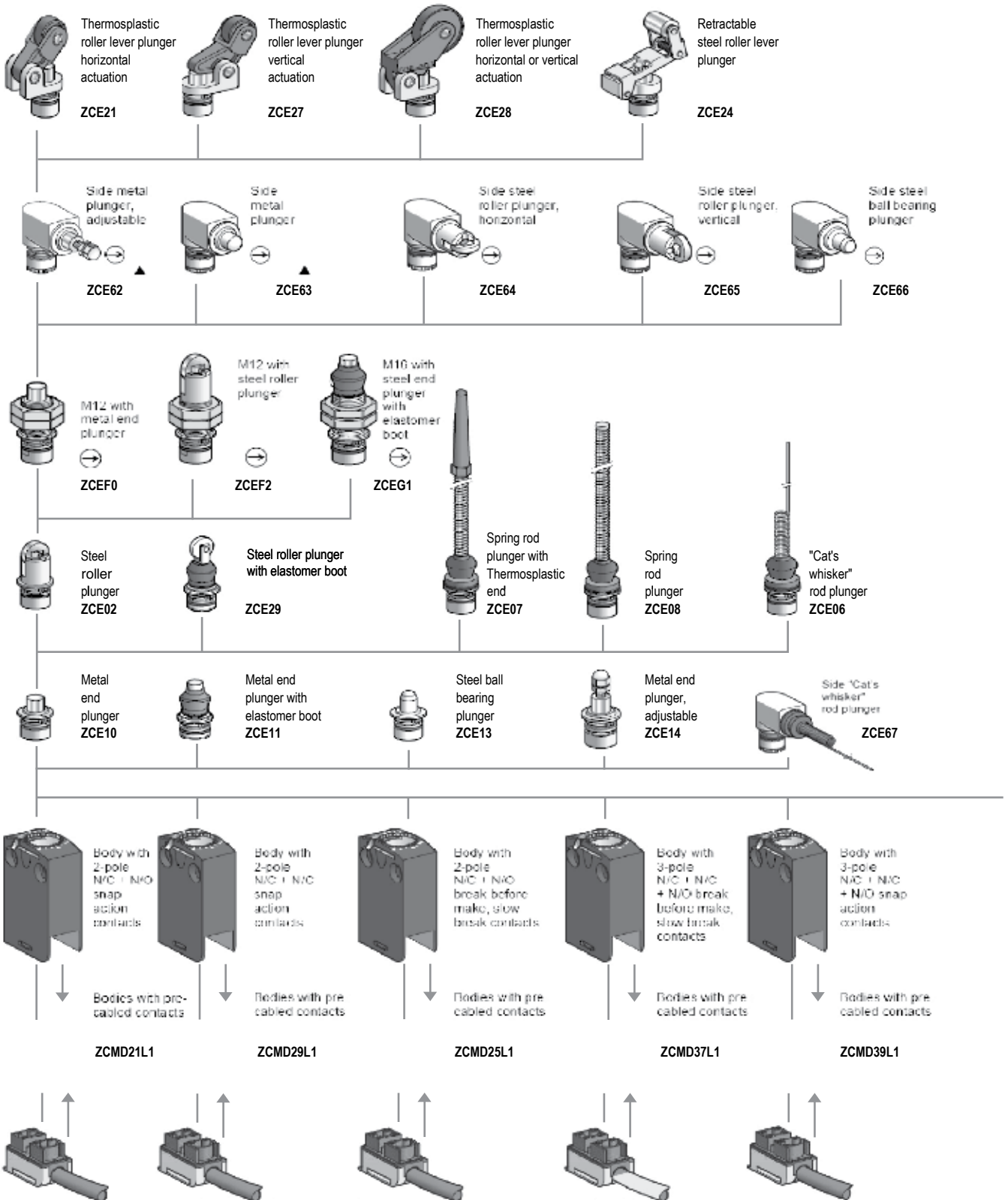


XCMD2102M12

Contacts	Type of head	Switch actuation	Type of operator	Reference	Price (RM)
Single-pole C/O snap action with integral M12 4-pin connector	Plunger (fixing by the body)	By 30° cam	Steel roller plunger	XCMD2102M12	466.00
			Steel roller lever	XCMD2116M12	477.00
			Variable length thermoplastic roller lever	XCMD2145M12	489.00
2-pole N/C+N/O snap action with integral M12 5-pin connector	Plunger (fixing by the body)	By 30° cam	Steel roller plunger	XCMD2102C12	473.00
			Thermoplastic roller lever	XCMD2115C12	444.00

Limit Switches

Osiswitch® Universal, Osiconcept®
 Miniature design, metal, type XCMD
 Variable composition

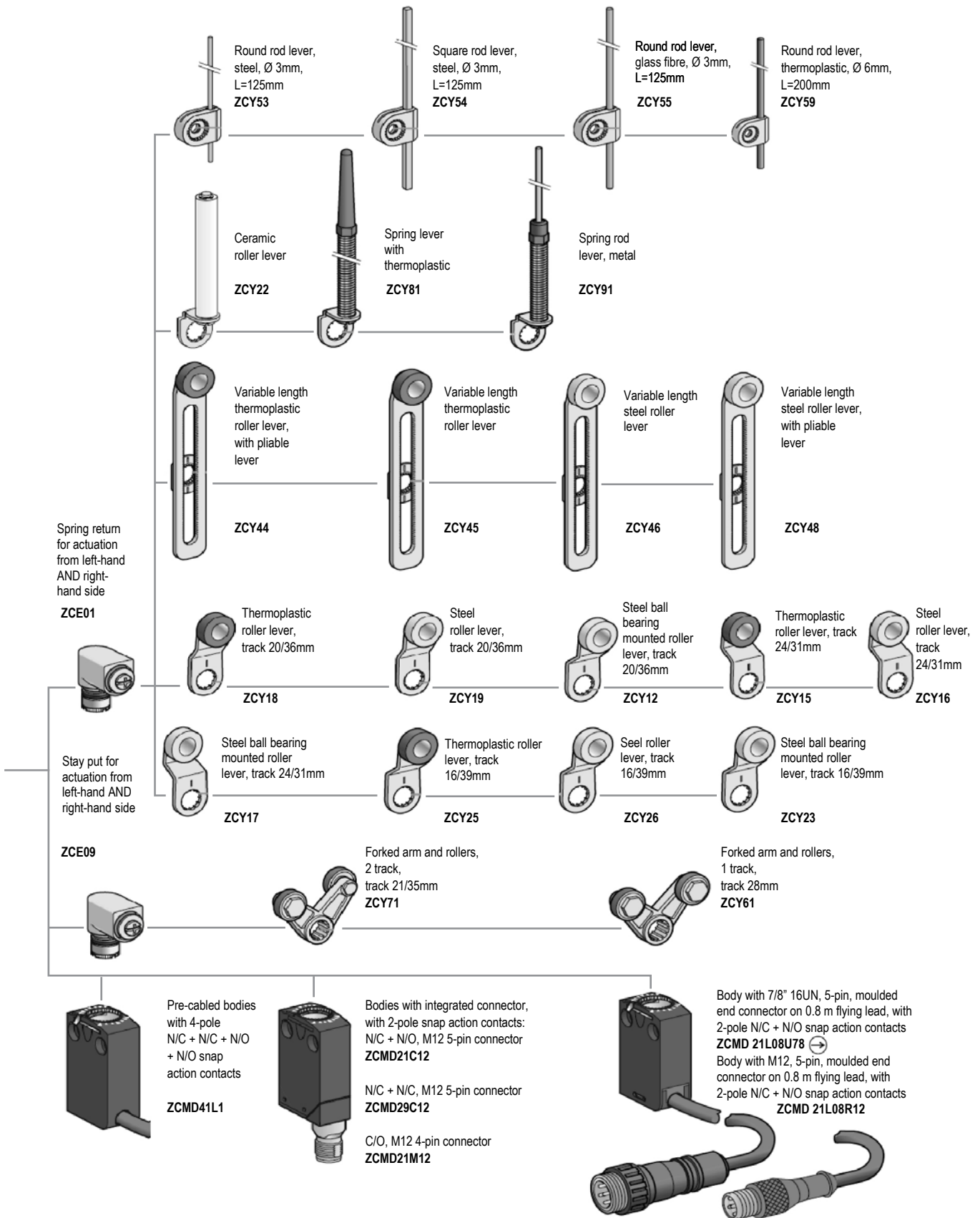


Pre-cabled connection components: Replace the "x" by the required cable length in metres, either: 1, 2, 3, 5, 7 or 10.
 Example: ZCMD 2117 for a connection component with 7 metre cable
 Except ZCMD 37L and ZCMD 39L which are only available with cable lengths of 1, 2 and 6 metres.

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Limit Switches

Osiswitch® Universal, Osiconcept®
 Miniature design, metal, type XCMD
 Variable composition



Limit Switches

Osiswitch® Optimum

Miniature design, plastic, type XCMN

Pre-cabled



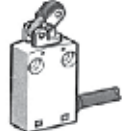
XCMN2110L1



XCMN2102L1



XCMN2103L1



XCMN2121L1



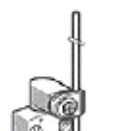
XCMN21F0L1



XCMN21F2L1



XCMN21F3L1



XCMN2159L1



XCMN2107L1



XCMN2106L1

Contacts	Type of head	Switch actuation	Type of operator	Reference	Price (RM)
2-pole N/C+N/O snap action	Plunger (fixing by the body) (1)	On end	Metal end plunger	XCMN2110L1	228.00
		By 30° cam	Steel roller plunger for lateral cam approach	XCMN2102L1	249.00
			Steel roller plunger for traverse cam approach	XCMN2103L1	249.00
	Plunger (fixing by the head) (1)	On end	M12 with metal end plunger	XCMN21F0L1	348.00
		By 30° cam	M12 with steel roller plunger for lateral cam approach	XCMN21F2L1	404.00
			M12 with steel roller plunger for traverse cam approach	XCMN21F3L1	414.00
	Rotary (fixing by the body) (1)	By 30° cam	Thermoplastic roller lever	XCMN2115L1	282.00
		By any moving part	Round thermoplastic rod lever Ø 6mm (2)	XCMN2159L1	313.00
	Multi- directional	By any moving part	Spring lever with thermoplastic end (2)	XCMN2107L1	269.00
			"Cat's whisker" (2)	XCMN2106L1	250.00

(1) N/C contact with positive opening operation.

(2) Value taken with actuation by moving part at 100mm from the fixings.








14

Limit Switches

Osiswitch® Universal, Osiconcept®

Compact design, metal, type XCKD

Integral M12 connector and ISO M16 x 1.5 cable entry

		Contacts	Type of head	Form EN 50047	Switch actuation	Type of operator	Reference	Price (RM)		
		2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body)	B	On end	Metal end plunger with elastomer boot	XCKD2111M12	925.00		
XCKD2102M12	XCKD2121M12					C	By 30° cam	Steel roller plunger	XCKD2102M12	784.00
						E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKD2121M12	756.00
						Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKD2128M12	916.00		
XCKD2121M12			Rotary (fixing by the body)	A	By 30° cam	Variable length thermoplastic roller lever	XCKD2145M12	741.00		
						Thermoplastic roller lever, Ø 50mm	XCKD2139M12	990.00		
						Variable length thermoplastic roller lever Ø 50mm	XCKD2149M12	1,014.00		
XCKD2139M12	XCKD2149M12		Plunger (fixing by the body) (2)	B	On end	Metal end plunger	XCKD2110P16	646.00		
				C	By 30° cam	Steel roller plunger	XCKD2102P16	727.00		
		2-pole N/C+N/O break before make, slow break (XE2NP2151)	Rotary (fixing by the body) (2)	A	By 30° cam	Variable length thermoplastic roller lever	XCKD2145P16	689.00		

(1) For an entry tapped for a n° 11 cable gland, replace **P16** in the reference by **G11**.

Example: XCKP2110P16 becomes XCKP2110G11.

(2) N/C contact with positive opening operation

(3) XCK***M12: M12 connector, XCK***P16: ISO M16 x 1.5 cable entry

Limit Switches

Osiswitch® Universal, Osiconcept®

Compact design, plastic, type XCKP

Complete units with 1 ISO M16 x 1.5 cable entry



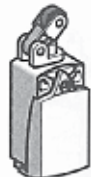
XCKP2110P16



XCKP2111P16



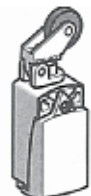
XCKP2102P16



XCKP2121P16



XCKP2127P16



XCKP2128P16



XCKP2121M12



XCKP2145M12

Contacts	Type of head	Form EN 50047	Switch actuation	Type of operator	Reference (1)	Price (RM)
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body) (2)	B	On end	Metal end plunger	XCKP2110P16	221.00
		C	By 30° cam	Steel roller plunger	XCKP2102P16	274.00
		E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKP2121P16	247.00
				Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKP2127P16	463.00
				Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKP2128P16	437.00
	Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever	XCKP2118P16	278.00
				Variable length thermoplastic roller lever	XCKP2145P16	290.00
	Plunger (fixing by the body) (2)	E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKP2121M12	300.00
	Plunger (fixing by the body) (2)	A	By 30° cam	Variable length thermoplastic roller lever	XCKP2145M12	356.00
				Variable length thermoplastic roller lever, Ø 50mm	XCKP2149M12	616.00

(1) For an entry tapped for a n° 11 cable gland, replace **P16** in the reference by **G11**,
Example: XCKP2110P16 becomes XCKP2110G11.

(2) N/C contact with positive opening operation

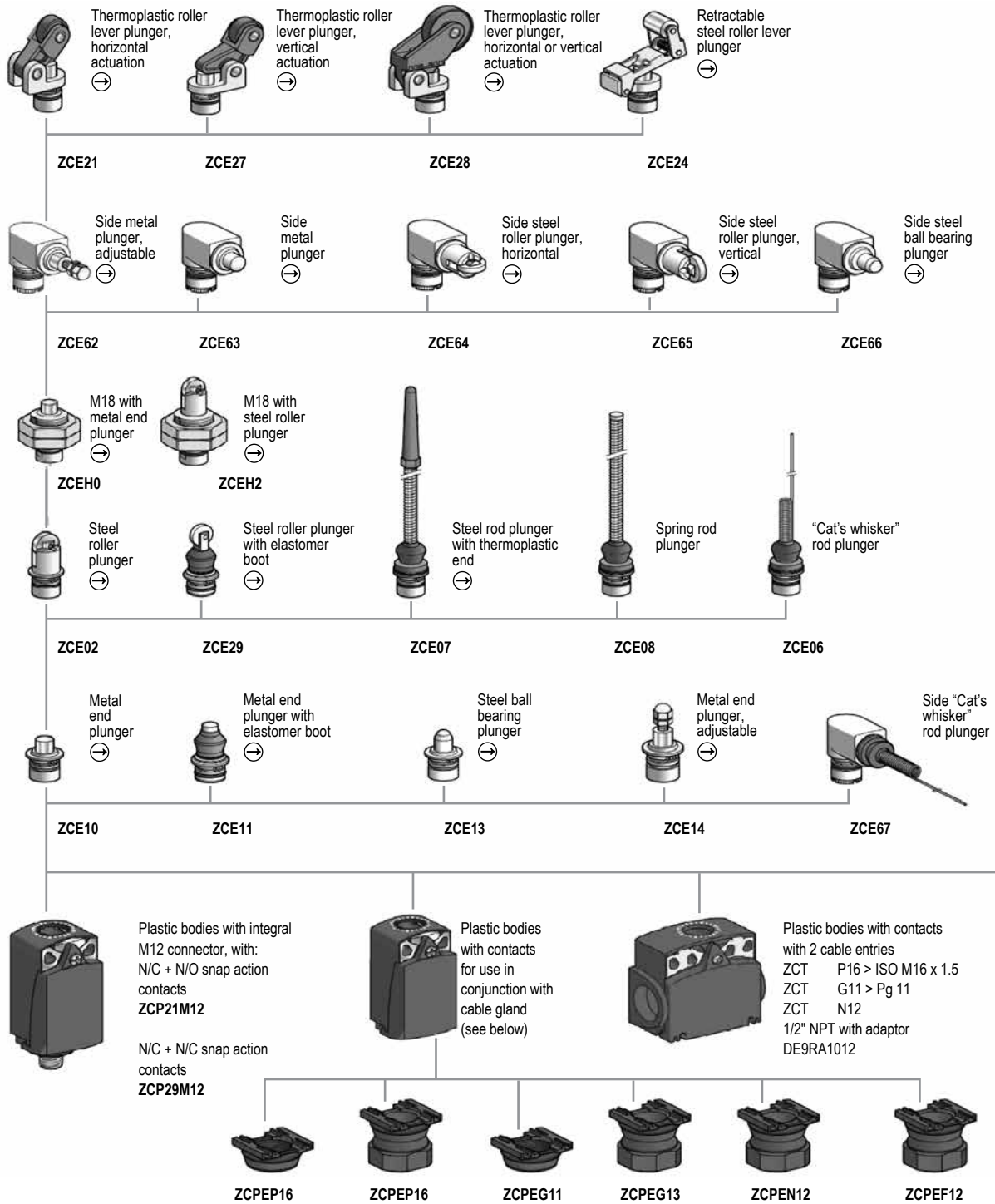
(3) XCK***M12: M12 connector, XCK***P16: ISO M16 x 1.5 cable entry

Limit Switches

Osiswitch® Universal, Osiconcept®

Compact design, type XCKD, XCKP and XCKT

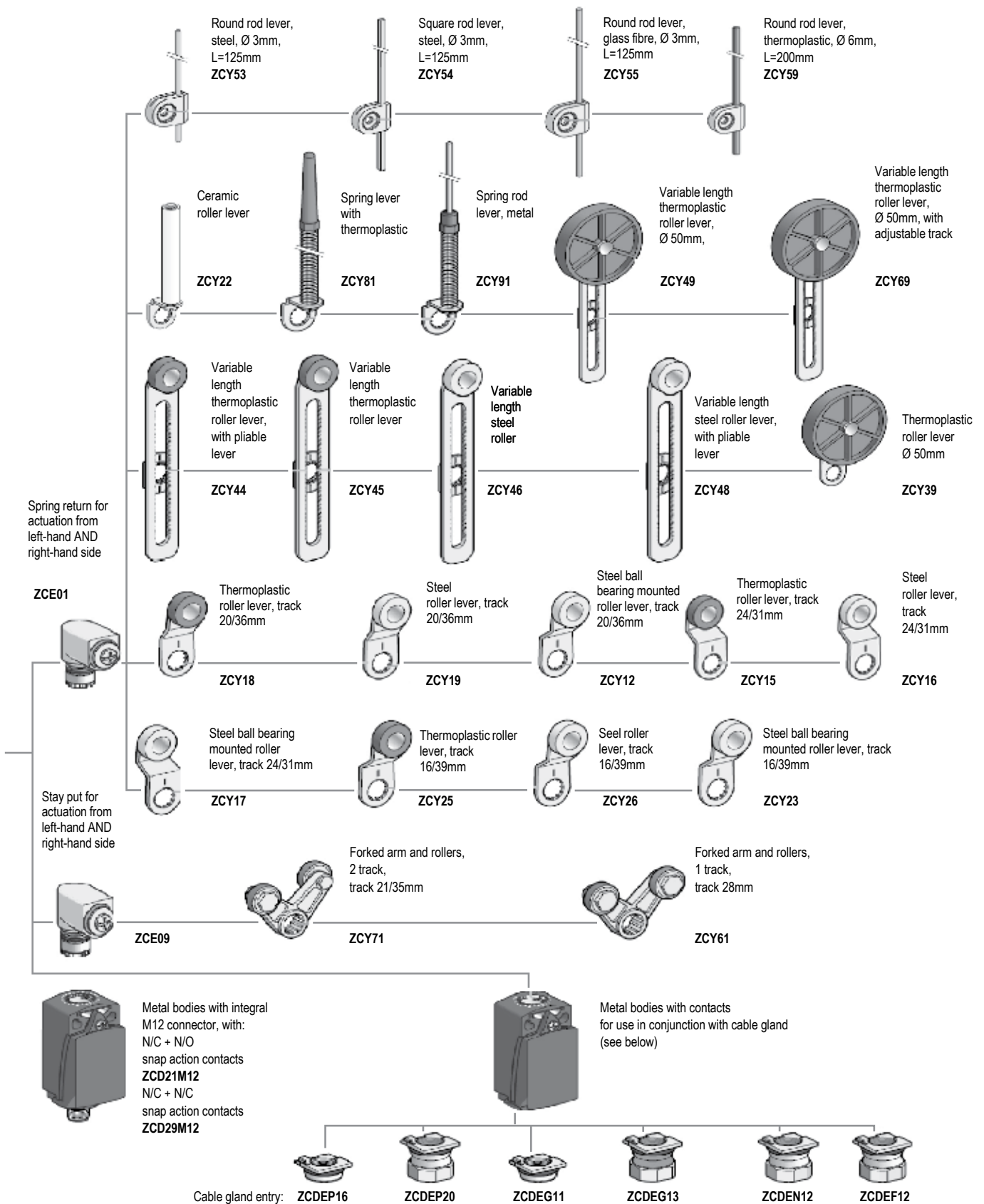
Variable composition



Limit Switches

Osiswitch® Universal, Osiconcept®
 Compact design, type XCKD, XCKP and XCKT
 Variable composition

14



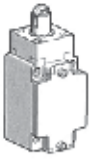
Limit Switches

Osiswitch® Classic

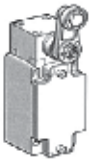
Metal type XCKJ and Plastic double insulated type XCKS

Conforming to CENELEC EN 50041

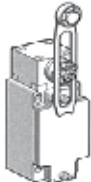
Complete switches with no. 13 cable entry



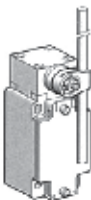
Fixed Metal end plunger



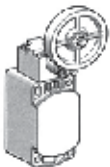
Fixed Thermoplastic roller lever



Fixed Variable length thermoplastic roller lever



Fixed Round thermoplastic rod lever, diameter 6mm



Elastomer roller lever, diameter 50mm

Metal, type XCKJ

Contacts	Type of head	Form EN 50041	Switch actuation	Type of operator	Reference	Price (RM)
Fixed body						
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body)	B	On end	Metal end plunger	(1) XCKJ161	528.00
		C	By 30° cam	Steel roller plunger	(1) XCKJ167	418.00
	Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever (3)	(1) XCKJ10511	523.00
				Steel roller lever (3)	(1) XCKJ10513	585.00
				Variable length thermoplastic roller lever (3)	XCKJ10541	513.00
	D	By any moving part	Round thermoplastic rod lever Ø 6mm (3) (4)	XCKJ10559	522.00	

Plastic, double insulated, type XCKS

Contacts	Type of head	Form EN 50041	Switch actuation	Type of operator	Reference	Price (RM)
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body)	B	On end	Metal end plunger	(1) XCKS101	301.00
		C	By 30° cam	Steel roller plunger	(1) XCKS102	294.00
	Rotary (fixing by the body)	A	By 30° cam	Thermoplastic roller lever (5)	(1) XCKS131	417.00
				Elastomer roller lever Ø 50mm (5)	XCKS141	344.00
				Variable length thermoplastic roller lever (5)	XCKS149	381.00
	D	By any moving part	Round thermoplastic rod lever Ø 6mm (3) (4)	XCKS159	361.00	

(1) N/C contact with positive opening operation.

(2) Switches supplied for actuation from left AND right.

(3) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting or clamp.

(4) Value taken with actuator operating at 100mm from the fixing.

(5) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the lever mounting.

Limit Switches

Osiswitch® Classic

Metal type XCKJ and Plastic double insulated type XCKS

Adaptable sub-assemblies: standard bodies



ZCKJ

Metal, type XCKJ				
Type	With contact block	Cable entry	Reference	Price (RM)
Fixed bodies with 2-pole contact				
1 step				
	N/C+N/O snap action (XE2SP2151)	ISO M20 x 1.5	ZCKJ1	356.00
	2 C/O simultaneous snap action (XESP2021)	ISO M20 x 1.5	ZCKJ2	526.00
			ZCKJ2H29	545.00
Type of operator		Usage	Reference	Price (RM)
Plunger heads				
Steel end plunger		Direct attach to body	ZCKE61	243.00
Steel side plunger			ZCKE63	541.00
Steel end roller plunger			ZCKE62	342.00
Steel end reinforced roller plunger			ZCKE67	309.00
Thermoplastic roller lever plunger			ZCKE21	391.00
Steel roller lever plunger			ZCKE23	413.00
Rotary heads				
Spring return		With lever	ZCKE05	221.00
Stay put		With forked arm	ZCKE09	561.00
Multi-directional heads				
"Cat's whisker"		Direct attach to body	ZCKE06	380.00
Spring rod lever			ZCKE08	399.00
Operating levers for rotary heads				
Thermoplastic roller lever		Connect with rotary heads	ZCKY11	57.00
Steel roller lever			ZCKY13	89.00
Thermoplastic variable length roller lever			ZCKY41	49.00
Steel variable length roller lever			ZCKY43	64.00
Thermoplastic round rod			ZCKY59	53.00
Thermoplastic forked arm and rollers			ZCKY71	120.00



ZCKE61



ZCKE63



ZCKE62



ZCKE67



ZCKE21



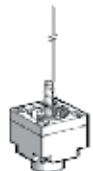
ZCKE23



ZCKE05



ZCKE09



ZCKE06



ZCKE08



ZCKY11



ZCKY71



ZCKY41



ZCKY59

Plastic, double insulated, type XCKS				
Type	With contact block	Cable entry	Reference	Price (RM)
Bodies with 2-pole contact				
1 step				
	N/C+N/O snap action (XE2SP2151)	ISO M20 x 1.5	ZCKS1	484.00
			ZCKS1H29	484.00
Type of operator			Reference	Price (RM)
Plunger heads				
Steel end plunger			ZCKD01	116.00
Steel roller plunger			ZCKD02	138.00
Rotary head + Operating lever				
Thermoplastic roller lever			ZCKD31	188.00
Thermoplastic variable length roller lever			ZCKD41	204.00
Thermoplastic round rod lever			ZCKD59	191.00
Multi-directional heads				
"Cat's whisker"			ZCKD06	133.00
Spring rod lever			ZCKD08	141.00

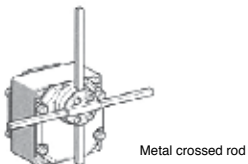
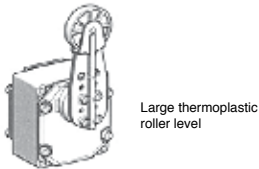
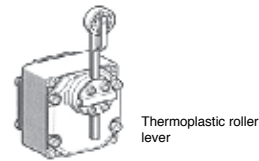
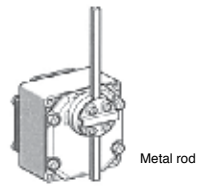
14

Limit Switches

Osiswitch® Classic

For hoisting and mechanical handling applications,
type XCR

Complete units with 1 cable entry

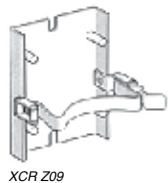


Contacts	Type of head	Max. displacement	Type of operator	Reference	Price (RM)
2 x 2-pole 1 N/C+1 N/O snap action (XE2SP2151) (1)	Both contacts operates in each direction	Rotary with spring return to off position	Metal rod \varnothing 6mm	XCRA11	1,318.00
		Stay put	Large thermoplastic roller lever	XCRA15	1,547.00
1 contact operates in each direction	Rotary with spring return to off position	90° in each direction	Metal crossed rod \varnothing 6mm	XCRE18	1,332.00
	Stay put	90° in each direction	Large thermoplastic roller lever	XCRB15	1,546.00
2 x 2-pole 1 N/C+1 N/O break before make (XE2NP2151) slow break (1)	Both contacts operates in each direction	Rotary with spring return to off position	Metal "T" rod \varnothing 6mm	XCRF17	1,333.00
	Stay put	90° in each direction	Metal crossed rod \varnothing 6mm	XCRE58	1,307.00
1 contact operates in each direction	Rotary with spring return to off position	90° in each direction	Metal rod \varnothing 6mm	XCRB51	1,253.00
	Stay put	90° in each direction	Large thermoplastic roller lever	XCRB55	1,800.00
1 contact operates in each direction	Rotary with spring return to off position	90° in each direction	Metal "T" rod \varnothing 6mm	XCRF57	1,362.00
	Stay put	90° in each direction	Metal "T" rod \varnothing 6mm		

(1) N/C contact with positive opening operation.

Accessories and spare parts

Description	For switch	Type	Reference	Price (RM)
Quick fixing/ release bracket	XCRA, XCRB XCRE, XCRF		XCRZ09	1,139.00
Contact block (2 contact) with mounting plate	XCRA, XCRB XCRE, XCRF	2-pole 1 N/C + 1 N/O snap action	XCRZ12	279.00
		2-pole 1 N/C + 1 N/O break before make slow break	XCRZ15	238.00



Inductive Proximity Sensors

Osiprox® application

Miniature, cylindrical flush and non-flush mountable

Three or four-wire, d.c. supply, solid-state output

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)
Ø4, plain					
Flush mountable brass case					
1	NO	PNP	Pre-cable (L=2m)	XS1L04PA310	582.00
		NPN	Pre-cable (L=2m)	XS1L04NA310	526.00
	NC	PNP	Pre-cable (L=2m)	XS1L04PB310	674.00
		NPN	M8 connector	XS1L04NB310S	637.00
Flush mountable stainless steel case					
0.8	NO	PNP	M8 connector	XS1L04PA311S	682.00
M5					
Flush mountable brass case					
1	NO	PNP	Pre-cable (L=2m)	XS1N05PA310	600.00
		NPN	Pre-cable (L=2m)	XS1N05NA310	598.00
Flush mountable stainless steel case					
0.8	NO	PNP	M8 connector	XS1N05PA311S	684.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Example: XS1L04PA310 becomes XS1L04PA310L1 with 5m long cable.

Inductive Proximity Sensors

Osiprox® Technology

Basic, cylindrical flush and non-flush mountable

Two-wire, a.c. supply

Three-wire, d.c. supply, solid-state output

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)
M8					
Three-wire d.c. supply, flush mountable					
1.5	NO	PNP	Pre-cable (L=2m)	XS108BLPAL2	244.00
			M8 connector	XS108BLPAM8	255.00
		NPN	Pre-cable (L=2m)	XS108BLNAL2	243.00
			M12 connector	XS108BLNAM12	239.00
Three-wire d.c. supply, non-flush mountable					
2.5	NO	PNP	M12 connector	XS208BLPAM12	249.00
M12					
Three-wire d.c. supply, flush mountable					
2	NO	PNP	Pre-cable (L=2m)	XS112BLPAL2	240.00
			M12 connector	XS112BLPAM12	236.00
		NPN	Pre-cable (L=2m)	XS112BLNAL2	236.00
			M12 connector	XS112BLNAM12	236.00
	NC	PNP	M12 connector	XS112BLPBM12	236.00
Three-wire d.c. supply, non-flush mountable					
4	NO	PNP	Pre-cable (L=2m)	XS212BLPAL2	239.00
			M12 connector	XS212BLPAM12	242.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.
Example: XS106BLPAL2 becomes XS106BLPAL5.

Inductive Proximity Sensors

Osiprox® Technology

Basic, cylindrical flush and non-flush mountable

Two-wire, a.c. supply

Three-wire, d.c. supply, solid-state output

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)
M18					
Three-wire d.c. supply, flush mountable					
5	NO	PNP	Pre-cable (L=2m)	XS118BLPAL2	249.00
			M12 connector	XS118BLPAM12	249.00
		NPN	Pre-cable (L=2m)	XS118BLNAL2	252.00
			M12 connector	XS118BLNAM12	252.00
Three-wire d.c. supply, non-flush mountable					
8	NO	PNP	Pre-cable (L=2m)	XS218BLPAL2	249.00
			M12 connector	XS218BLPAM12	252.00
		NPN	Pre-cable (L=2m)	XS218BLNAL2	252.00
			M12 connector	XS218BLNAM12	249.00
M30					
Three-wire d.c. supply, flush mountable					
10	NO	PNP	Pre-cable (L=2m)	XS130BLPAL2	277.00
			M12 connector	XS130BLPAM12	277.00
		NPN	Pre-cable (L=2m)	XS130BLNAL2	277.00
Three-wire d.c. supply, non-flush mountable					
15	NO	PNP	Pre-cable (L=2m)	XS230BLPAL2	290.00
			M12 connector	XS230BLPAM12	353.00
		NPN	Pre-cable (L=2m)	XS230BLNAL2	290.00
			NC	PNP	Pre-cable (L=2m)
Accessories					
Description				Reference	Price (RM)
Fixing clamps			Ø18	XSZB118	66.00
			Ø30	XSZB130	84.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Example: XS118BLPAL2 becomes XS118BLPAL5.

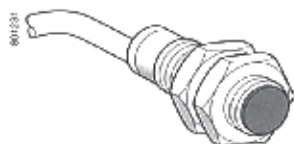
Inductive Proximity Sensors

Osiprox® application

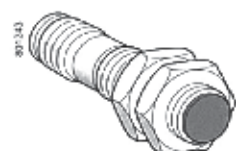
Plastic, cylindrical, non-flush mountable

Two-wire, a.c. or d.c. supply

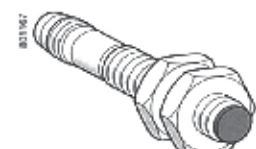
Three-wire, d.c. supply, solid-state output



XS4 P●●●●340
XS4 P●●●●230



XS4 P●●●●340D
XS4 P●●●●230K



XS4 P08●●340S

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)
Ø8					
Three-wire d.c. supply					
2.5	NO	PNP	Pre-cable (L=2m)	XS4P08PA340	370.00
		NPN	Pre-cable (L=2m)	XS4P08NA340	440.00
	NC	PNP	Pre-cable (L=2m)	XS4P08PB340	431.00
		NPN	Pre-cable (L=2m)	XS4P08PB340S	431.00
Two-wire a.c. or d.c. supply, unprotected					
2.5	NO		Connector 1/2"-20UNF	XS4P08MA230K	706.00
	NC		Connector 1/2"-20UNF	XS4P08MB230K	747.00
Ø12					
Three-wire d.c. supply					
4	NO	PNP	Pre-cable (L=2m)	XS4P12PA340	332.00
			M12 connector	XS4P12PA340D	310.00
	NC	NPN	M12 connector	XS4P12NB340D	327.00
Two-wire a.c. or d.c. supply, unprotected					
4	NO		Pre-cable (L=2m)	XS4P12MA230	486.00
			Connector 1/2"-20UNF	XS4P12MA230K	477.00
	NC		Pre-cable (L=2m)	XS4P12MB230	510.00
			Connector 1/2"-20UNF	XS4P12MB230K	578.00
Ø18					
Three-wire d.c. supply					
8	NO	PNP	Pre-cable (L=2m)	XS4P18PA340	296.00
			Pre-cable (L=2m)	XS4P18NA340	296.00
			M12 connector	XS4P18NA340D	479.00
	NC	NPN	Pre-cable (L=2m)	XS4P18NB340	342.00
			M12 connector	XS4P18NB340D	342.00
Two-wire a.c. or d.c. supply, unprotected					
8	NO		Pre-cable (L=2m)	XS4P18MA230	505.00
	NC		Pre-cable (L=2m)	XS4P18MB230	521.00
Ø30					
Three-wire d.c. supply					
15	NO	PNP	Pre-cable (L=2m)	XS4P30PA340	419.00
			M12 connector	XS4P30PA340D	410.00
			Pre-cable (L=2m)	XS4P30NA340	423.00
	NC	NPN	Pre-cable (L=2m)	XS4P30NB340	420.00
Two-wire a.c. or d.c. supply, unprotected					
15	NO		Pre-cable (L=2m)	XS4P30MA230	553.00
	NC		Pre-cable (L=2m)	XS4P30MB230	563.00
			Connector 1/2"-20UNF	XS4P30MB230K	561.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Example: XS4P08PA340 becomes XS4P08PA340L1 with 5m long cable.

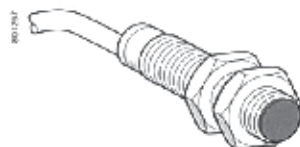
Inductive Proximity Sensors

Osiprox® optimum

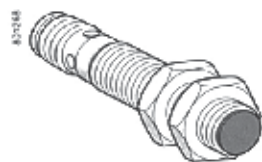
Cylindrical, flush mountable

Two-wire, d.c. supply

Three-wire, d.c. supply, solid-state output



XS5 ●●B1●●L2



XS5 ●●B1●●M12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)
Ø8					
Three-wire d.c. supply					
1.5	NO	PNP	Pre-cable (L=2m)	XS508B1PAL2	298.00
			M8 connector	XS508B1PAM8	298.00
	NPN		Pre-cable (L=2m)	XS508B1NAL2	302.00
			M8 connector	XS508B1NAM8	302.00
	NC	PNP	Pre-cable (L=2m)	XS508B1PBL2	313.00
			M8 connector	XS508B1PBM8	310.00
Ø12					
Three-wire d.c. supply					
2	NO	PNP	Pre-cable (L=2m)	XS512B1PAL2	277.00
			M12 connector	XS512B1PAM12	277.00
	NPN		Pre-cable (L=2m)	XS512B1NAL2	274.00
			M12 connector	XS512B1NAM12	274.00
Two-wire d.c. supply					
2	NO		Pre-cable (L=2m)	XS512B1DAL2	312.00
	NC		Pre-cable (L=2m)	XS512B1DBL2	327.00
Ø18					
Three-wire d.c. supply					
5	NO	PNP	Pre-cable (L=2m)	XS518B1PAL2	300.00
			M12 connector	XS518B1PAM12	300.00
	NPN		Pre-cable (L=2m)	XS518B1NAL2	296.00
			M12 connector	XS518B1NAM12	296.00
	NC	PNP	M12 connector	XS518B1PBM12	292.00
			NPN	Pre-cable (L=2m)	XS518B1NBL2
			M12 connector	XS518B1NBM12	296.00
Two-wire d.c. supply					
5	NO		Pre-cable (L=2m)	XS518B1DAL2	316.00
Ø30					
Three-wire d.c. supply					
10	NO	PNP	Pre-cable (L=2m)	XS530B1PAL2	340.00
			M12 connector	XS530B1PAM12	340.00
	NPN		Pre-cable (L=2m)	XS530B1NAL2	443.00
			M12 connector	XS530B1NAM12	340.00
	NC	PNP	Pre-cable (L=2m)	XS530B1PBL2	352.00
			NPN	Pre-cable (L=2m)	XS530B1NBL2
			M12 connector	XS530B1NBM12	418.00
Two-wire d.c. supply					
10	NO		M12 connector	XS530B1DAM12	356.00
	NC		Pre-cable (L=2m)	XS530B1DBL2	363.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

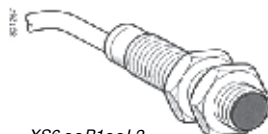
Inductive Proximity Sensors

Osiprox® Universal

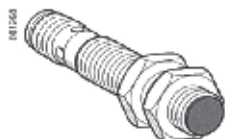
Cylindrical, flush mountable

Two-wire, a.c. or d.c. supply

Three-wire, d.c. supply, solid-state output



XS6 ●●B1●●L2



XS6 ●●B1●●M12

Sensing distance (Sn) mm	Function		Connection (1)	Reference	Price (RM)
Ø8					
Three-wire					
2.5	NO	PNP	Pre-cable (L=2m)	XS608B1PAL2	343.00
			M12 connector	XS608B1PAM12	352.00
	NPN	PNP	Pre-cable (L=2m)	XS608B1NAL2	343.00
			M12 connector	XS608B1NAM12	427.00
	NC	PNP	Pre-cable (L=2m)	XS608B1PBL2	351.00
			M12 connector	XS608B1PBM12	351.00
NPN	PNP	Pre-cable (L=2m)	XS608B1NBL2	420.00	
		M12 connector	XS608B1NBM12	516.00	
Ø12					
Three-wire					
4	NO	PNP	Pre-cable (L=2m)	XS612B1PAL2	321.00
			M12 connector	XS612B1PAM12	314.00
	NPN	PNP	Pre-cable (L=2m)	XS612B1NAL2	321.00
			M12 connector	XS612B1NAM12	320.00
	NC	PNP	Pre-cable (L=2m)	XS612B1PBL2	320.00
			M12 connector	XS612B1PBM12	320.00
NPN	PNP	Pre-cable (L=2m)	XS612B1NBL2	321.00	
		M12 connector	XS612B1NBM12	321.00	
Two-wire a.c. or d.c. supply					
4	NO	PNP	Pre-cable (L=2m)	XS612B1MAL2	479.00
			1/2" - 20 UNF connector	XS612B1MAU20	466.00
	NC	PNP	Pre-cable (L=2m)	XS612B1MBL2	493.00
Ø18					
Three-wire					
8	NO	PNP	Pre-cable (L=2m)	XS618B1PAL2	331.00
			M12 connector	XS618B1PAM12	331.00
	NPN	PNP	Pre-cable (L=2m)	XS618B1NAL2	331.00
			M12 connector	XS618B1NAM12	339.00
	NC	PNP	Pre-cable (L=2m)	XS618B1PBL2	339.00
			M12 connector	XS618B1PBM12	339.00
	NPN	PNP	Pre-cable (L=2m)	XS618B1NBL2	339.00
			M12 connector	XS618B1NBM12	339.00
Two-wire a.c. or d.c. supply					
8	NO	PNP	Pre-cable (L=2m)	XS618B1MAL2	457.00
			1/2" - 20 UNF connector	XS618B1MAU20	468.00
	NC	PNP	Pre-cable (L=2m)	XS618B1MBL2	476.00
Ø30					
Three-wire					
15	NO	PNP	Pre-cable (L=2m)	XS630B1PAL2	352.00
			M12 connector	XS630B1PAM12	360.00
	NPN	PNP	Pre-cable (L=2m)	XS630B1NAL2	362.00
			M12 connector	XS630B1NAM12	361.00
	NC	PNP	Pre-cable (L=2m)	XS630B1PBL2	368.00
			M12 connector	XS630B1PBM12	366.00
Two-wire a.c. or d.c. supply					
15	NO	PNP	Pre-cable (L=2m)	XS630B1MAL2	548.00
			1/2" - 20 UNF connector	XS630B1MAU20	539.00
	NC	PNP	Pre-cable (L=2m)	XS630B1MBL2	548.00
Accessories					
Description			Reference	Price (RM)	
Fixing clamps		Ø18	XSZB118	66.00	
		Ø30	XSZB130	84.00	



XSZB ●●●

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Inductive Proximity Sensors

Osiprox® Optimum

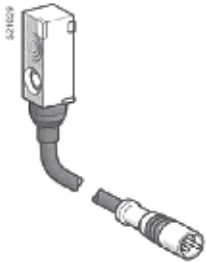
Flat, flush mountable, forms J and F

Two-wire, d.c. supply

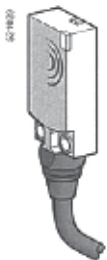
Three-wire, d.c. supply, solid-state output



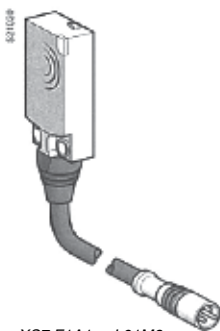
XS7 J1A1●●L2



XS7 J1A1●●L01M8



XS7 F1A1●●L2



XS7 F1A1●●L01M8

Sensing distance (Sn) mm	Function	Output	Connection (2)	Reference	Price (RM)
Flat, form J 8 x 22 x 8mm (1)					
Three-wire d.c.					
2.5	NO	PNP	Pre-cable (L=2m)	XS7J1A1PAL2	299.00
	NC	PNP	Pre-cable (L=2m)	XS7J1A1PBL2	402.00
				0.15m flying lead with M8 connector	XS7J1A1PBL01M8
		NPN	Pre-cable (L=2m)	XS7J1A1NBL2	402.00
Two-wire d.c.					
2.5	NC		Pre-cable (L=2m)	XS7J1A1DBL2	420.00
Flat, form F 15 x 32 x 8mm					
Three-wire d.c.					
5	NO	NPN	0.15m flying lead with M8 connector	XS7F1A1NAL01M8	420.00
	NC	PNP	Pre-cable (L=2m)	XS7F1A1PBL2	342.00
Two-wire d.c.					
5	NO		0.15m flying lead with M8 connector	XS7F1A1DAL01M8	471.00
	NC		Pre-cable (L=2m)	XS7F1A1DBL2	468.00

(1) The sensors **XS7J** include a basic fixing clamp with screw.

(2) For an output with a 5m long cable, please contact our **Customer Care Centre**.

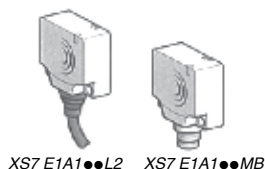
Inductive Proximity Sensors

Osiprox® Optimum

Flat, flush mountable, forms E, C and D

Two-wire, d.c. supply

Three-wire, d.c. supply, solid-state output



XS7 E1A1●●L2 XS7 E1A1●●MB



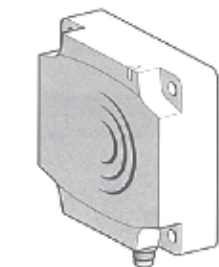
XS7●1A1●●L0●M12



XS7 C1A1●●L2



XS7 D1A1●●L2



XS7 D1A1●●M12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	Price (RM)	
Flat, form E, 26 x 26 x 13mm						
Three-wire d.c.						
10	NO	PNP	Pre-cable (L=2m)	XS7E1A1PAL2	383.00	
			M8 connector	XS7E1A1PAM8	383.00	
	NC	PNP	Remote M12 connector	XS7E1A1PBL01M12	618.00	
Two-wire d.c.						
10	NO	-	M8 connector	XS7E1A1DAM8	527.00	
			M8 connector	XS7E1A1DBM8	557.00	
	NC	-	Remote M12 connector	XS7E1A1DBL01M12	692.00	
Flat, form C 40 x 40 x 15mm						
Three-wire d.c.						
15	NC	NPN	M8 connector	XS7C1A1NBM8	527.00	
Flat, form D 80 x 80 x 26mm						
Three-wire d.c.						
40	NO	PNP	M12 connector	XS7D1A1PAM12	706.00	
	NC	NPN	M12 connector	XS7D1A1NBM12	909.00	
Flat, form E, 26 x 26 x 13 mm						
Three-wire dc with overload and short-circuit protection						
15	NO	PNP	Remote M12 connector	XS8E1A1PAL01M12	834.00	
		NPN	M12 connector	XS7D1A1NBM12	896.00	
Flat, form C 40 x 40 x 15 mm						
Three-wire dc with overload and short-circuit protection						
25	NO	PNP	Pre-cabled (2m)	XS8C1A1PAL2	662.00	
			Pre-cabled (2m)	XS8C1A1NAL2	797.00	
			M8 connector	XS8C1A1NAM8	797.00	
	NC	NPN	Remote M12 connector	XS8C1A1NAL01M12	939.00	
			Pre-cabled (2m)	XS8C1A1NBL2	697.00	
			M8 connector	XS8C1A1NBM8	842.00	
Two-wire ac or dc unprotected (2)						
25	NO	-	Pre-cabled (2m)	XS8C1A1MAL2	897.00	
			Remote 1/2" - 20 UNF connector	XS8C1A1MAL01U20	958.00	
Flat, form D 80 x 80 x 26 mm						
Three-wire dc with overload and short-circuit protection						
60	NO	PNP	Pre-cabled (2m)	XS8D1A1PAL2	1,137.00	
			Pre-cabled (2m)	XS8D1A1PBL2	1,142.00	
	NC	PNP	M12 connector	XS8D1A1PBM12	1,151.00	
			NPN	Pre-cabled (2m)	XS8D1A1NBL2	1,401.00
				M12 connector	XS8D1A1NBM12	1,414.00
Two-wire ac or dc unprotected (2)						
60	NO	-	Pre-cabled (2m)	XS8D1A1MAL2	1,302.00	

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Example: XS7J1A1PAL2 becomes XS7J1A1PAL5 with a 5m long cable.

(2) The NO output is connected to terminals 1 and 4 of the M12 connector.

(3) 0.8m flying lead with remote connector.

Photo-electric Sensors

Osiris® Universal, Osiconcept

Design 18 metal or plastic

Three-wire, d.c. supply, solid-state output



XUB 0...NL2



XUB 0...WL2



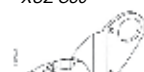
XUB 0...NM12



XUB 0...WM12



XUZ C50



XUZ B2003



XUZ A118



XUZ A218



XUZ 2001



XUZ 2003

Design 18, Metal

Sensing distance (Sn) m	Function	Output	Line of sight	Reference	Price (RM)
Pre-cable (1)					
0...15 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP	Along case axis	XUB0BPSNL2	552.00

Accessories

Description	Type	Connection (1)	Line of sight	Reference	Price (RM)
Reflector	50 x 50mm	-	-	XUZC50	67.00

Design 18, Plastic

Sensing distance (Sn) m	Function	Output	Line of sight	Reference	Price (RM)
Pre-cable (1)					
0...15 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP	Along case axis	XUB0APSNL2	511.00

M12 connector

0...15 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP	Along case axis	XUB0APSNM12	515.00
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Accessories

Description	Type	Connection (1)	Line of sight	Reference	Price (RM)
Transmitter for Thru-beam	-	M12 connector	Along case axis	XUB0AKSNM12T	291.00
Reflector	50 x 50mm	-	-	XUZC50	67.00

Fixing accessories

Description	Reference	Price (RM)
Metal bracket	XUZA118	63.00
Mounting bracket adjustable with balljoint	XUZA218	93.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.
Example: XUB0BPSNL2 becomes XUB0BPSNL5.

Photo-electric Sensors

Osiris® Optimum

Design 18 metal

Three-wire, d.c. supply, solid-state output



XUB ●B●●NM12



XUB ●B●●NL2



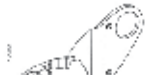
XUB ●B●●WM12



XUB ●B●●WL2



XUZ C50



XUZ B2003



XUZ 2001



XUZ A118



XUZ 2003



XUZ A218

Sensing distance (Sn) m	Function	Output	Line of sight	Reference	Price (RM)
Diffuse system with adjustable sensitivity					
0.6	NO (Object detection)	PNP	Along case axis	XUB5BPANM12	432.00
Polarised reflex system (1)					
2	NO (Object detection)	PNP	Along case axis	XUB9BPANM12	434.00
Reflex system (1)					
4	NO (Object detection)	PNP	Along case axis	XUB1BPANM12	398.00
			90° to case axis	XUB1BPAWM12	793.00
	NC	PNP	Along case axis	XUB1BPBNM12	399.00
				XUZC50	67.00
Reflector (50 x 50mm)					
<i>(1) Need to order reflector as complete system, but not necessary for replacement sensor.</i>					
Thru-beam system (2)					
15 transmitter			Along case axis	XUB2BKSNM12T	251.00
			90° to case axis	XUB2BKSWM12T	284.00
15 receiver	NO (Object detection)	PNP	Along case axis	XUB2BPANM12R	387.00
			NC	PNP	Along case axis
<i>(2) It is necessary to order transmitter and receiver as complete system.</i>					
Fixing accessories					
Description				Reference	Price (RM)
Metal bracket				XUZA118	63.00
Mounting bracket adjustable with balljoint				XUZA218	93.00

Pre-cable

For a pre-cable sensor, **replace M12 by L2** for a 2m cable, **same price as M12** and replace **M12 by L5** for a 5m cable, please contact our **Customer Care Centre**.

Example: XUB4BPANM12 becomes XUB4BPANL2 for a 2m cable and XUB4BPANL5 for a 5m cable.

Photo-electric Sensors

Osiris® Universal, Osiconcept

Miniature design

Three-wire, d.c. supply, solid-state output



Sensing distance (Sn) m	Function	Output	Connection (1)	Reference	Price (RM)
0 to 10 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP	M8 connector	XUM0APSAM8	611.00
		NPN	Pre-cabled (2m)	XUM0ANSAL2	600.00

Accessories

Description	Connection (1)	Reference	Price (RM)
Transmitter for Thru-beam Reflector 50 x 50mm	Pre-cabled (2m)	XUM0AKSAL2T	349.00
		XUZC50	67.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.
Example: XUM0APSAL2 becomes XUM0APSAL5.

Photo-electric Sensors

Osiris® Universal, Osiconcept

Compact design 50 x 50

Five-wire, a.c. or d.c. supply, 1NC/NO relay output

Three-wire, d.c. supply, solid-stated output



Sensing distance (Sn) m	Function	Output	Connection (1)	Reference	Price (RM)
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d.c. supply

0...30 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP/NPN	Pre-cabled (2m) M12 connector	XUK0AKSAL2	741.00
				XUK0AKSAM12	746.00

Accessories

Description	Connection (1)	Reference	Price (RM)
Reflector (50 x 50mm)		XUZC50	67.00

Sensing distance (Sn) m	Function	Output	Connection (1)	Reference	Price (RM)
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a.c. or d.c. supply

0...30 depending on whether accessories are used	NO or NC, using Osiconcept programming	Time delayed relay	Pre-cabled (2m)	XUK0ARCTL2	839.00
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Accessories

Description	Connection	Reference	Price (RM)
Reflector (50 x 50mm)		XUZC50	67.00

Fixing accessories

Description	Reference	Price (RM)
Mounting bracket	XUZA51	26.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.
Example: XUK0AKSAL2 becomes XUK0AKSAL5.

Photo-electric Sensors

Osiris® Optimum

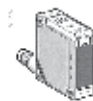
Compact design 50 x 50

Five-wire, a.c. or d.c. supply, 1NC/NO relay output

Three-wire, d.c. supply, solid-stated output



XUK ●AL●●●L2



XUK ●A●●●M12



XUZ C50



XUZ K2003



XUZ K2004



XUZ A51



XUZ 2001



XUZ 2003

Sensing distance (Sn) m	Function	Output	Connection (1)	Reference	Price (RM)
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Diffuse system with adjustable sensitivity

d.c. supply

1	NO (Object detection)	PNP	Pre-cabled (2m) M12	XUK5APANL2	541.00
		NPN	Pre-cabled (2m) M12	XUK5APANM12	543.00
	NC	NPN	Pre-cabled (2m) M12	XUK5ANANL2	699.00
		PNP	Pre-cabled (2m) M12	XUK5ANANM12	699.00
	NPN	PNP	Pre-cabled (2m) M12	XUK5APBNL2	541.00
		NPN	Pre-cabled (2m)	XUK5APBNM12	541.00
a.c. or d.c. supply					
1	NO + NC	relay	Pre-cabled (2m)	XUK5ARCNL2	606.00

Polarised reflex system (2)

d.c. supply

5	NO (Object detection)	NPN	Pre-cabled (2m)	XUK9ANANL2	658.00
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a.c. or d.c. supply

4	NO + NC	relay	Pre-cabled (2m)	XUK9ARCNL2	647.00
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Reflex system (2)

d.c. supply

9	NO (Object detection)	PNP	M12	XUK1APANM12	510.00
		NPN	Pre-cabled (2m)	XUK1ANANL2	490.00
	NC	NPN	Pre-cabled (2m)	XUK1ANBNL2	507.00

a.c. or d.c. supply

Reflector (50 x 50mm)				XUZC50	67.00
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(2) Need to order reflector as complete system, but not necessary for replacement sensor.

Thru-beam system (3)

d.c. supply

30 Transmitter			M12	XUK2AKSNM12T	307.00
30 Receiver	NO (Object detection)	PNP	Pre-cabled (2m) M12	N.A.	
		NPN	Pre-cabled (2m)	XUK2APANM12R	448.00
	NC	NPN	Pre-cabled (2m)	XUK2ANANL2R	511.00
		PNP	Pre-cabled (2m)	XUK2APBNL2R	511.00

a.c. or d.c. supply

20 Transmitter			Pre-cabled (2m)	XUK2ARCNL2T	344.00
20 Receiver			Pre-cabled (2m)	XUK2ARCNL2R	527.00

(3) It is necessary to order transmitter and receiver as complete system.

Fixing accessories

Description	Reference	Price (RM)
Mounting bracket	XUZA51	26.00

(1) For an output with a 5m long cable, please contact our **Customer Care Centre**.

Example: XUK1APANL2 becomes XUK1APANL5.

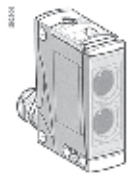
Photo-electric Sensors

Osiris® Universal, Osiconcept

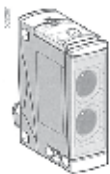
Compact design

Five-wire, a.c. or d.c. supply, 1NC/NO relay output

Three-wire, d.c. supply, solid-stated output



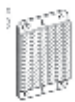
XUX 0ARCTT16



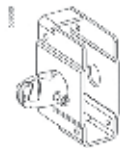
XUX 0AKSAM12



XUZ X2003



XUZ C50



XUZ X2004



XUZ X2000



XUZ X2001



XUZ 2001



XUZ 2003

Sensing distance (Sn) m	Function	Output	Connection	Reference	Price (RM)
d.c. supply					
0...40 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP/NPN	Screw terminals (1)	XUX0AKSAT16	1,062.00
			M12	XUX0AKSAM12	1,384.00
Accessories					
Description			Connection	Reference	Price (RM)
Reflector (50 x 50mm)			-	XUZC50	67.00
Sensing distance (Sn) m	Function	Output	Connection	Reference	Price (RM)
a.c. or d.c. supply					
0...40 depending on whether accessories are used	NO or NC, using Osiconcept programming	Time delayed relay	Screw terminals (1)	XUX0ARCTT16	1,199.00
			Accessories		
Description			Connection	Reference	Price (RM)
Transmitter for Thru-beam			Screw terminals (1)	XUX0ARCTT16T	781.00
Reflector (50 x 50mm)			-	XUZC50	67.00
Fixing accessories					
Description				Reference	Price (RM)
Mounting bracket				XUZX2000	39.00

(1) ISO 16 cable gland, capacity Ø7 to 10mm cable.

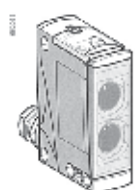
Photo-electric Sensors

Osiris® Optimum

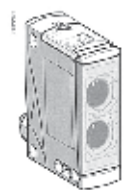
Compact design

Five-wire, a.c. or d.c. supply, 1NC/NO relay output

Three-wire, d.c. supply, solid-stated output



XUX ●A●●●T16



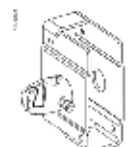
XUX ●A●●●M12



XUZ C50



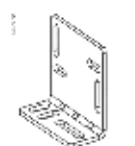
XUZ X2003



XUZ X2004



XUZ 2001



XUZ X2000



XUZ 2003

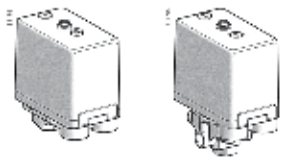
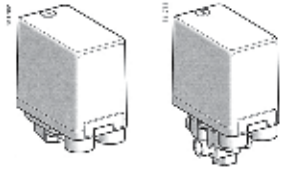
Sensing distance (Sn) m	Function	Output	Connection	Reference	Price (RM)	
Diffuse system						
d.c. supply						
2.1	NO (Object detection)	PNP	M12	XUX5APANM12	764.00	
		NPN	M12	XUX5ANANM12	961.00	
	NC	PNP	Screw terminals (1)	XUX5APBNT16	961.00	
a.c. or d.c. supply						
2.1	NO + NC	relay	Screw terminals (1)	XUX5ARCNT16	869.00	
Polarised reflex system (2)						
d.c. supply						
	NO (Object detection)	PNP	M12	XUX9APANM12	943.00	
		NC	PNP	Screw terminals (1)	XUX9APBNT16	943.00
a.c. or d.c. supply						
11	NO + NC	relay	Screw terminals (1)	XUX9ARCNT16	949.00	
Reflex system (2)						
d.c. supply						
14	NO (Object detection)	NPN	Screw terminals (1)	XUX1ANANT16	830.00	
		NC	NPN	Screw terminals (1)	XUX1ANBNT16	830.00
a.c. or d.c. supply						
14	NO + NC	relay	Screw terminals (1)	XUX1ARCNT16	854.00	
Reflector (50 x 50mm)					XUZC50	67.00
(2) Need to order reflector as complete system, but not necessary for replacement sensor.						
Thru-beam system (3)						
d.c. supply						
40 Transmitter			Screw terminals (1)	XUX0AKSAT16T	918.00	
			M12	XUX0AKSAM12T	1,008.00	
40 Receiver	NO (Object detection)	PNP	Screw terminals (1)	XUX2APANT16R	1,102.00	
		M12	XUX2APANM12R	854.00		
		NPN	Screw terminals (1)	XUX2ANANT16R	1,102.00	
a.c. or d.c. supply						
40 Transmitter			Screw terminals (1)	XUX0ARCTT16T	781.00	
40 Receiver	NO + NC	relay	Screw terminals (1)	XUX2ARCNT16R	788.00	
(3) It is necessary to order transmitter and receiver as complete system.						
Fixing accessories						
Description				Reference	Price (RM)	
Mounting bracket				XUZ X2000	39.00	

(1) ISO 16 cable gland, capacity Ø7 to 10mm cable.

Electromechanical Pressure Switches

For control circuits, type XMx and XMA

Size 6 to 25 bar (87 to 362.5 psi). Adjustable differential for regulation between 2 thresholds. Switches with 1 C/O single-pole contact



Fluid connection (BSP female)	Adjustable range of switching point (PH) bar (psi)	Possible differential setting bar (psi)			Max. permissible pressure bar (psi)		Destruction pressure	Reference	Price (RM)
		Min. @ low	Min. @ high	Max. @ high	Per cycle	Accidental			
Internal setting screw									
G 1/4	1...6 (14.5...87)	0.8 (11.6)	1.2 (17.4)	4.2 (60.9)	7.5 (108.7)	13.5 (195.7)	30 (435)	XMxA06L2135	502.00
	1.3...12 (18.85...174)	1 (14.5)	1.7 (24.6)	8.4 (121.8)	15 (217.5)	27 (391.5)	30 (435)	XMxA12L2135	508.00
4 x G 1/4	1...6 (14.5...87)	0.8 (11.6)	1.2 (17.4)	4.2 (60.9)	7.5 (108.7)	13.5 (195.7)	30 (435)	XMxA06L2435	701.00
	1.3...12 (18.85...174)	1 (14.5)	1.7 (24.6)	8.4 (121.8)	15 (217.5)	27 (391.5)	30 (435)	XMxA12L2435	701.00
External setting screw									
Switches with transparent cover									
4 x G 1/4	1...6 (14.5...87)	0.8 (11.6)	1.2 (17.4)	4.2 (60.9)	7.5 (108.7)	13.5 (195.7)	30 (435)	XMAV06L2435	845.00
	1.3...12 (18.85...174)	1 (14.5)	1.7 (24.6)	8.4 (121.8)	15 (217.5)	27 (391.5)	30 (435)	XMAV12L2435	845.00
	3.5...25 (50.75...362.5)	3.4 (49.3)	4.5 (65.2)	20 (290)	31.25 (453.1)	56.25 (815.6)	100 (1450)	XMAV25L2435	1,081.00

Sensors for Pressure Control

Nautilus®

Electronic pressure sensors

Applications	Type of installations	Control circuits	
	Fluids controlled	Air, water, hydraulic oils, corrosive fluids	
	Type of sensor and features	Units without display	Pressure and vacuum switches
		Pressure transmitters	Factory set switching thresholds
		Analogue output	Solid-state NPN or PNP output



Fluid characteristics	Air, fresh water, sea water, hydraulic oils, corrosive fluids (- 15...+ 125°C)	
Sizes	- 1 bar...400 bar (- 14.5 psi...5800 psi)	
Dimensions of case (mm) WxHxD	Ø22.8 x 70.1	
Type of output	Analogue, 4-20 mA or 0-10V	Solid-state, PNP or NPN normally closed (NC) output 150 mA, 12/24VDC
Degree of protection	IP 66, IP 67 conforming to IEC/EN60529, NEMA4	
Type reference	XMLG●●●D21	XMLG●●●D31●●TQ XMLG●●●D41●●TQ
Ordering and pricing	Consult our Customer Care Centre or sales person for quotation.	

Electronic Sensors XMLR

Electronic + Display



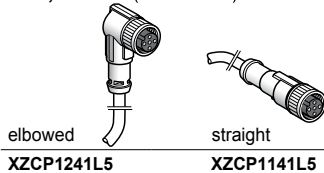
Adjustable pressure range (bar) (1)	-1...0	0...1	0...2,5	0...10	0...16	0...25	0...40	0...250	0...400	
Fluids controlled	Hydraulic oils, air, fresh water, refrigerant fluids									
Ambient air temperature	- 20...+ 80°C									
Degree of protection (conforming to IEC 60529)	IP65, IP67 conforming to EN/IEC 60529									
Product certification	cULus conforming to UL 61010-1									
Voltage limits (V)	17...33 Vdc									
Dimensions (mm) H x W x D	93x41x42							88x41x42		
Fluid connection (2)	G1/4A (female)									
Electrical connection	M12 connector 4 pin or 5 pin									
Configurable with 4-digit display										
Analogue output	4...20 mA	XMLRM01G0T25	XMLR001G0T25	XMLR2D5G0T25	XMLR010G0T25	XMLR016G0T25	XMLR025G0T25	XMLR040G0T25	XMLR250G0T25	XMLR400G0T25
	0...10 V	XMLRM01G0T75	XMLR001G0T75	XMLR2D5G0T75	XMLR010G0T75	XMLR016G0T75	XMLR025G0T75	XMLR040G0T75	XMLR250G0T75	XMLR400G0T75
Analogue + switching output	4...20 mA	XMLRM01G1P25	XMLR001G1P25	XMLR2D5G1P25	XMLR010G1P25	XMLR016G1P25	XMLR025G1P25	XMLR040G1P25	XMLR250G1P25	XMLR400G1P25
PNP - NO/NC programmable	0...10 V	XMLRM01G1P75	XMLR001G1P75	XMLR2D5G1P75	XMLR010G1P75	XMLR016G1P75	XMLR025G1P75	XMLR040G1P75	XMLR250G1P75	XMLR400G1P75
2 switching outputs PNP - NO/NC prog.		XMLRM01G2P05	XMLR001G2P05	XMLR2D5G2P05	XMLR010G2P05	XMLR016G2P05	XMLR025G2P05	XMLR040G2P05	XMLR250G2P05	XMLR400G2P05
Analogue + 2 switching outputs 4...20 mA		XMLRM01G2P25			XMLR010G2P25			XMLR040G2P25	XMLR250G2P25	XMLR400G2P25
Possible differential (bar) (pressure switches)	Min.	0.03		0.08	0.3	0.48	0.8	1.2	7.5	12
	Max.	0.95		2.38	9.5	15	23.8	38	238	380
Maximum permissible accidental pressure		3	7,5	12	40	62	100	150	750	1200

(1) For other pressure ranges consult our website.

(2) Also available with 1/4"-18NPT female fluid entry.

Suitable female plug-in connectors

PUR Pre-wired connectors, L = 5 m (without LED)



elbowed

XZCP1241L5

straight

XZCP1141L5

Other connectors



Screw terminal

4 pins XZCC12FCM40B

5 pins XZCC12FCM50B





EN 175301-803-A



XZCC43FCP40B

Sensors for Pressure Control

Nautilus®

Electromechanical pressure and vacuum switches

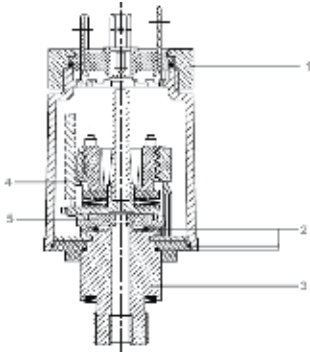
Applications	Type of installations	Control circuits	
	Fluids/products controlled Type of operation	Air, water, hydraulic oils, corrosive fluids	
		Detection of a single threshold (fixed differential)	Regulation between 2 thresholds (adjustable differential)
			
Fluid characteristics	Air, fresh water, sea water, corrosive fluids, viscous products, up to 160°C depending on model		
Sizes	- 1 bar...500 bar (- 14.5 psi...7250 psi)		
Dimensions of case (mm) WxHxD	35 x 68 x 75		
Type of contacts	1 C/O single-pole, snap action		
Degree of protection	IP 66: switches with terminal connections IP 65: switches with plug-in connector		
Type reference	XMLA	XMLB	
Ordering and pricing	Consult our Customer Care Centre or sales person for quotation.		

Applications	Type of installations	Control circuits	
	Fluids/products controlled Type of operation	Air, water, hydraulic oils, corrosive fluids	
		Regulation between 2 thresholds (adjustable differential)	Dual stage switches Detection at each threshold (fixed differential)
			
Fluid characteristics	Air, fresh water, sea water, corrosive fluids, viscous products, up to 160°C depending on model		
Sizes	- 1 bar...500 bar (- 14.5 psi...7250 psi)		
Dimensions of case (mm) WxHxD	46 x 68 x 85		
Type of contacts	2 C/O single-pole, simultaneous, snap action		2 C/O single-pole, staggered, snap action
Degree of protection	IP 66: switches with terminal connections		
Type reference	XMLC	XMLD	
Ordering and pricing	Consult our Customer Care Centre or sales person for quotation.		

Electronic Pressure Sensors

OsiSense XM

For control circuits, type XML K



Presentation

Pressure transmitters type XML K are characterised by their ceramic pressure measuring cell. The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge silk-screened on the ceramic. The change in resistance is then processed by the integrated electronics for providing an analogue output signal.

1. **Electrical connection, for example: DIN 43650 A connector**
2. **Sealing gaskets**
3. **Threaded fluid connection**
4. **Hybrid electronics**
5. **Measuring load cell (ceramic technology)**

Functions

Pressure transmitters have an analogue 4-20 mA or 0-10 V output that is proportional to the measuring range. These compact products are available with various types of electrical connector and fluid connection.

As standard, versions are available calibrated in bar and psi.

The selling in lots option offers an excellent price/performance ratio. Electronic pressure sensors XML K are, therefore, mainly intended for pump manufacturers.

The sizes offered are suited to the pumping domain.

Electronic Pressure Sensors

OsiSense XM

Pressure transmitters type XML K, bar version

With analogue output 4-20 mA

Sizes 0 to 25 bar (0 to 362 psi)

DIN 43650 A connector



M12 connector



Pressure range	Connector	Sold in packs of:	Reference	Price (RM)
0...6 bar (0...87 psi)	DIN 43650	1	XMLK006B2C21	772.00
0...10 bar (0...145 psi)	DIN 43650	1	XMLK010B2C21	772.00
0...16 bar (0...232 psi)	DIN 43650	1	XMLK016B2C21	772.00

With analogue output 0-10 V

Sizes 0 to 25 bar (0 to 362 psi)

Pressure range	Connector	Sold in packs of:	Reference	Price (RM)
0...10 bar (0...145 psi)	M12	1	XMLK010B2D71	772.00

Electronic Pressure Sensors

OsiSense XM

Pressure transmitters type XML K, PSI version

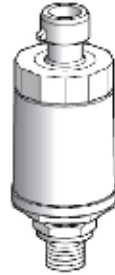
With analogue output 4-20 mA

Sizes 0 to 300 psi (0 to 20.7 bar)

DIN 43650 A connector

M12 connector

Packard connector



Pressure range	Connector	Sold in packs of:	Reference	Price (RM)
0...100 psi (0...6.9 bar)	DIN 43650	1	XMLK100P2C23	773.00
0...150 psi (0...10.3 bar)	DIN 43650	1	XMLK150P2C23	773.00

Electronic Pressure Sensors

OsiSense XM

Pressure transmitters type XML K

Accessories



XZ CC12FDM40B



XZ CC12FCM40B



XZ CC43FCP40B



XZ CP1141L10



XZ CP1241L5

Connection accessories

Description	Type	Reference	Price RM/pc
M12 female connector, metal clamping ring (1)	Straight	XZCC12FDM40B	85.00
	Elbowed	XZCC12FCM40B	87.00
DIN 43650 female connector (1)		XZCC43FCP40B	38.00
	Description	Length of cable	Reference
Pre-wired M12, straight, female connectors	2m	XZCP1141L2	127.00
	5m	XZCP1141L5	160.00
	10m	XZCP1141L10	225.00
Pre-wired M12, elbowed, female connectors	2m	XZCP1241L2	127.00
	5m	XZCP1241L5	161.00
	10m	XZCP1241L10	225.00

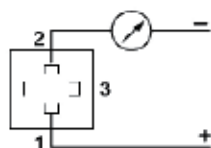
(1) Connector with screw terminal connections.

Connector schemes (pressure sensor connector pin view)

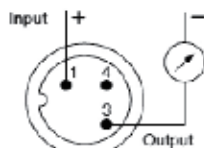
Pressure transmitters XML K

2-wire technique (4-20 mA)

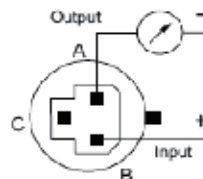
DIN



M12

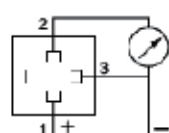


Packard

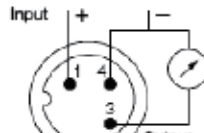


3-wire technique (0-10V)

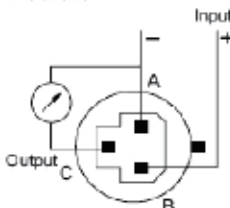
DIN



M12



Packard



Ultrasonic Sensors

Osisonic®, Optimum and Universal

Cylindrical plastic case, M12 x 1, M18 x 1, M30 x 1.5

d.c. supply, solid-state output



XX5 12A1KAM8



XX5 18A1KAM12



XX5 18A3-AM12



XX6 30A1KAM12



XX6 30A3-CM12



XZ CC12FD-40B



XXZ PB 100



XZ CP1041L



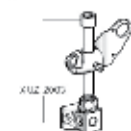
XSZ B11



XUZ A118



XUZ 2001 XUZ B30



3D fixing kit example

Optimum sensors

Sensors	Sensing distance (Sn) m	Function	Output	Reference	Price (RM)
Ø12	0.05	NO	PNP/NPN	XX512A1KAM8	1,958.00

Universal sensors

Ø18	0.50 (adjustable)	NO	NPN	XX518A3NAM12	1,569.00
			PNP	XX518A3PAM12	1,555.00
Ø30	1 (adjustable)	NO + NC	NPN	XX630A1NCM12 (1)	3,734.00

Accessories

Teach mode pushbutton

Teach mode pushbutton	For use with sensors	Reference	Price (RM)
	XX518A3 □ AM12 and XX7V1A1 □ AM12	XXZPB100	975.00

Selection of detection window

Input: M12 female connector

Output: M12 male connector

Cabling accessories (4-wire output) (3)

Connectors	For use with sensor	Type		Reference	Price (RM)		
M8	Ø12	Connection by in-line IDC	Elbowed	XZCC8FCM40V	187.00		
			Straight	XZCC8FDM40S	216.00		
		Connection to solder terminals	Elbowed	XZCC8FCM40S	216.00		
			Straight	XZCC12FDM40B	85.00		
M12	Ø18, Ø30	Metal clamping ring	Elbowed	XZCC12FCM40B	87.00		
			Straight	XZCC12FDM40B	85.00		
		Plastic clamping ring	Elbowed	XZCC12FCP40B	85.00		
			Straight	XZCC12FDP40B	84.00		
Pre-wired connectors	For use with sensor	Type	Length m	Reference	Price (RM)		
M8	Ø12	Straight	2	XZCP0166L2	224.00		
			5	XZCP0166L5	204.00		
			10	XZCP0166L10	239.00		
			Elbowed	2	XZCP0266L2	224.00	
				5	XZCP0266L5	204.00	
				10	XZCP0266L10	225.00	
		M12	Ø18, Ø30	Straight	2	XZCP1141L2	127.00
					5	XZCP1141L5	160.00
					10	XZCP1141L10	225.00
				Elbowed	2	XZCP1241L2	127.00
					5	XZCP1241L5	161.00
					10	XZCP1241L10	225.00

Fixing accessories

Description	For use with sensor	Reference	Price (RM)	
Fixing clamps	Ø18	XSZB118	66.00	
90° fixing bracket	Ø12	XXZ12	47.00	
	Ø18	XUZA118	63.00	
	Ø30	XXZ30	92.00	
3D fixing kit (2)	Ball-joint mounted fixing bracket	Ø12	XUZB2012	117.00

(1) Sensor available with stainless steel 303 case.

To order, replace the 1st letter **A** by the letter **S** and add **RM407.00**

(2) To obtain a 3D fixing kit, order:

rod support **XUZ2003**, M12 rod **XUZ2001** and ball-joint mounted fixing bracket **XUZB20**.

(3) For 3-wire cabling accessories, refer to the Global Detection catalogue.

Ultrasonic Sensors

Osisonic®, Application

Cylindrical plastic case, M30 x 1.5

Sensors with analogue output signal 0-10 V or 4-20 mA



XX9 30A1A●M12



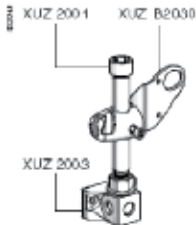
XX9 30A3A●M12



XZ CC12FD●40B



XZ CP1041L●



3D fixing kit example

Sensor					
Sensors	Sensing distance (Sn) m	Function	Output	Reference	Price (RM)
Ø30	1 (adjustable)	-	Analogue 4-20mA	XX930A1A2M12 (1)	6,046.00
	8 (adjustable)	-	Analogue 4-20mA	XX930A3A2M12	7,304.00
	8 (adjustable)	-	Analogue 0-10V	XX930A3A1M12	7,303.00

Accessories					
Cabling accessories					
Connectors	Type		Reference	Price (RM)	
M12	Metal clamping ring	Straight	XZCC12FDM40B	85.00	
		Elbowed	XZCC12FCM40B	87.00	
	Plastic clamping ring	Straight	XZCC12FDP40B	84.00	
		Elbowed	XZCC12FCP40B	85.00	
Pre-wired connectors	Type	Length m	Reference		
			Straight	2	XZCP1141L2
		5		XZCP1141L5	160.00
		10	XZCP1141L10	225.00	
		Elbowed	2	XZCP1241L2	127.00
			5	XZCP1241L5	161.00
10	XZCP1241L10		225.00		

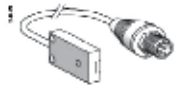
Fixing accessories		
Description	Reference	Price (RM)
90° fixing bracket	XXZ30	92.00

(1) Sensor available with stainless steel 303 case.

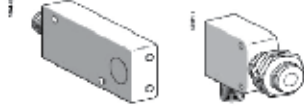
To order, replace the 1st letter A by the letter S and add RM192.00

Ultrasonic Sensors

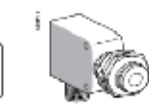
Osisonic®, Optimum and Universal
Plastic case, flat form
d.c. supply, solid-state output



XX7 F1A2-AL01M12



XX7 K1A2-AM12



XX7 V1A1-AM12



XXZ PB100



XX7 3074F



XX7 3074S

Optimum sensors

Sensors	Sensing distance (Sn) mm	Function	Output	Reference	Price (RM)
7.6 x 19 x 33	0.10	NO	NPN	XX7F1A2NAL01M12	

Accessories

Teach mode pushbutton

Teach mode pushbutton	For use with sensors	Reference	Price (RM)
	XX518A3 □ AM12 and XX7V1A1 □ AM12	XXZPB100	975.00

Selection of detection window

Input: M12 female connector

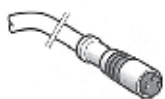
Output: M12 male connector

Cabling accessories

Connectors	For use with sensor	Type	Reference	Price (RM)	
M12	XX7●●●●●	Metal clamping ring	Straight	XZCC12FDM40B	85.00
			Elbowed	XZCC12FCM40B	87.00
		Plastic clamping ring	Straight	XZCC12FDP40B	84.00
			Elbowed	XZCC12FCP40B	85.00
Pre-wired connectors	For use with sensor	Type	Length m	Reference	Price (RM)
M12	XX7●●●●●	Straight	2	XZCP1141L2	127.00
			5	XZCP1141L5	160.00
			10	XZCP1141L10	225.00
		Elbowed	2	XZCP1241L2	127.00
			5	XZCP1241L5	161.00
			10	XZCP1241L10	225.00

Machine Cabling Accessories

Pre-wired connectors, Ø8mm and M8



Clip (clip together connectors, without clamping ring)

Female, Ø8mm

Connector type	Nos. of contacts	LED signalling	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)			
Cabling Ø4.2mm cable, conductor c.s.a. : 3 x 0.22mm²										
Straight	3	-	60Va.c., 75Vd.c.	2	2	XZCP0166L2	224.00			
					5	XZCP0166L5	204.00			
					10	XZCP0166L10	239.00			
Elbowed	3	-	60Va.c., 75Vd.c.	2	2	XZCP0266L2	224.00			
					5	XZCP0266L5	204.00			
					2 PNP LEDs	10...30Vd.c.	2	5	XZCP0366L5	257.00
					2 NPN LEDs	10...30Vd.c.	2	2	XZCP0466L2	225.00
								5	XZCP0466L5	262.00
								10	XZCP0466L10	318.00

Screw threaded (metal clamping ring)

Female, M8

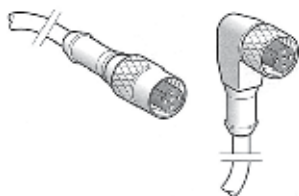
Connector type	Nos. of contacts	LED signalling	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)			
Cabling Ø4.2mm cable, conductor c.s.a. : 3 x 0.22mm²										
Straight	3	-	60Va.c., 75Vd.c.	2	2	XZCP0566L2	187.00			
Elbowed	3	-	60Va.c., 75Vd.c.	2	2	XZCP0666L2	181.00			
					2 PNP LEDs	10...30Vd.c.	2	10	XZCP0766L10	268.00
					2 NPN LEDs	10...30Vd.c.	2	2	XZCP0866L2	225.00

Cabling Ø5mm cable, conductor c.s.a. : 4 x 0.34mm²

Straight	4	-	60Va.c., 75Vd.c.	4	2	XZCP0941L2	133.00
					5	XZCP0941L5	159.00
Elbowed	4	-	60Va.c., 75Vd.c.	4	2	XZCP1041L2	149.00
					5	XZCP1041L5	158.00

Machine Cabling Accessories

Pre-wired connectors, M12



Metal clamping ring

Female, M12

Connector type	Nos. of contacts	LED signalling	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)
Cabling Ø5mm cable, conductor c.s.a. : 3 x 0.34mm²							
Elbowed	3	2 PNP LEDs	10...30Vd.c.	4	2	XZCP1340L2	130.00
					10	XZCP1340L10	217.00
Straight	4	-	250Va.c., 300Vd.c.	4	2	XZCP1241L2	127.00
					5	XZCP1241L5	161.00
					10	XZCP1241L10	225.00
					2	XZCP1141L2	127.00
Elbowed	5	-	30Va.c., 36Vd.c.	4	5	XZCP1141L5	160.00
					10	XZCP1141L10	225.00
					2	XZCP1141L2	127.00
Cabling Ø5.8mm cable, conductor c.s.a. : 3 x 0.34mm² + 1 x 0.5mm²							
Straight	4	-	250Va.c., 300Vd.c.	4	2	XZCP1169L2	127.00
					5	XZCP1169L5	156.00
					5	XZCP1164L5	168.00
Elbowed	5	-	30Va.c., 36Vd.c.	4	10	XZCP1164L10	225.00
					5	XZCP1264L5	164.00

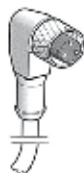
Metal clamping ring

Male, M12

Connector type	Nos. of contacts	LED signalling	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)
Cabling Ø5mm cable, conductor c.s.a. : 4 x 0.34mm²							
Straight	4	-	250Va.c., 300Vd.c.	4	2	XZCP1541L2	133.00

Machine Cabling Accessories

Pre-wired connectors, 1/2" 20UNF and 7/8" 16UN



Metal clamping ring

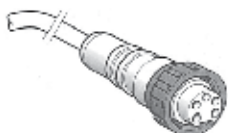
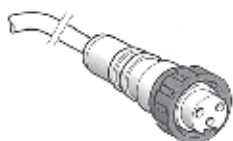
Female, 1/2" 20UNF

Connector type	Nos. of contacts	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)
Cabling Ø5mm cable, conductor c.s.a. : 3 x 0.34mm²						
Elbowed	3	250Va.c. 300Vd.c.	4	2	XZCP1965L2	321.00

Plastic clamping ring

Female, 7/8" 16UN

Connector type	Nos. of contacts	Connection	Nominal voltage (V)	Nominal current (A)	PvR cable length (m)	Reference	Price (RM)
Cabling Ø5mm cable, conductor c.s.a. : 3 x 0.5mm²							
Straight	3	Black, brown, blue	250Va.c.	6	5	XZCP1662L5	474.00
	3	Green, black, black/white	250Va.c.	6	2	XZCP1670L2	353.00
				5	XZCP1670L5	365.00	



Moulded Case Circuit Breaker

Compact NSX, NSXm and Compact NS

Compact NSXm

Adjustable MCCB: 16 A to 160 A, 16kA-36kA, 3P / 4P	15-1
Adjustable MCCB: 16 A to 160 A, 50kA-70kA, 3P / 4P	15-2

Compact NSXm Accessories

Connection and Insulation	15-3
Electrical Auxiliaries	15-4
Rotary Handles, Locks and Seals	15-5

Compact NSX

Adjustable MCCB: 16 A to 250 A, 25kA, 3P / 4P	15-6
Adjustable MCCB : 16 A to 630 A, 36kA, 3P / 4P	15-7
Adjustable MCCB : 16 A to 630 A, 50kA, 3P / 4P	15-8
NSX100/160/250 Basic frame and separate components	15-9
NSX100/160/250 Basic frame and separate components (cont')	15-10
NSX400/630 Basic frame and separate components	15-11

Compact NSX 100/160/250 Accessories

Connection accessories	15-12
Electrical Auxiliaries and Motor	15-13
Rotary Handles, Locks and Interlocking	15-14
Spare parts	15-15
Plug-in / Withdrawable Accessories	15-16
Vigi Module and Plug-In / Withdrawable Kit	15-17
Monitoring and Control	15-18

Compact NSX 400/630 Accessories

Connection Accessories	15-19
Electrical Auxiliaries	15-20
Motors and Rotary Handles	15-21
Locks and Interlocking	15-22
Spare parts	15-23
Plug-in / Withdrawable Accessories	15-24
Monitoring and Control	15-25
Vigi Module and Plug-In / Withdrawable Kit	15-26

Compact NSX & NS Source Changeover System

50kA, 3/4P	15-27
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Compact NS

Fixed MCCB : 800 A to 1600 A, 3P/4P 50kA - 150kA	15-28
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Compact NS800/1600 Accessories

15-29

Compact NSXm circuit breakers: Optimized for your needs

The Compact NSXm range of circuit breakers and switch disconnectors is a newcomer in the Compact NSX family. It is one of the smallest on the market with innovative features. Built on the design of roto-active breaking technology, we have made it as robust as Compact NSX products.

Compact NSXm main features and innovations

- Up to 160 A and 70 kA at 415V
- Thermal magnetic trip unit integrated
- Built-in DIN rail and plate mount
- Auxiliaries externally visible
- EverLink connectors

Earth leakage protection embedded (VIGI)

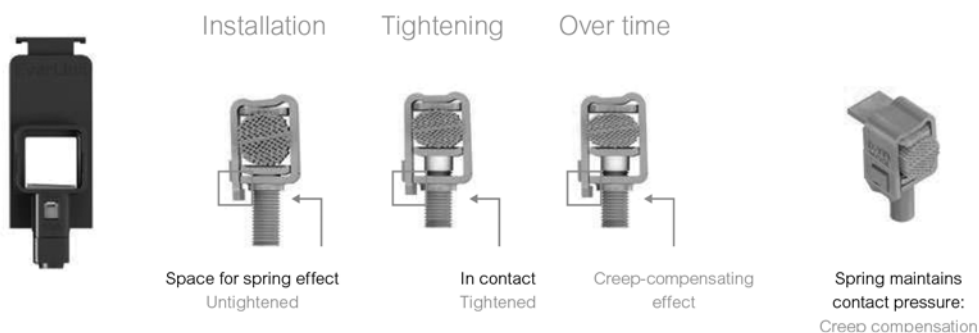
- Save up to 40% of space with the smallest earth leakage circuit breaker
- Save time; no need to order or install an add-on block



EverLink patented technology

The Compact NSXm features a new cable connection method with patented creep-compensating technology built directly into the terminal — EverLink:

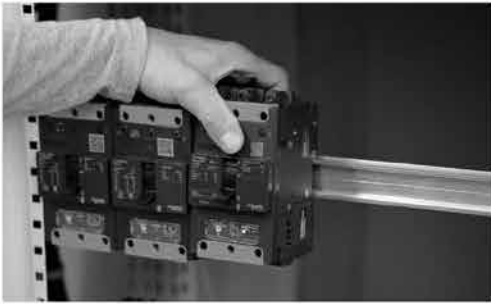
- With EverLink connectors, save space and time during panel assembly.
- Bare cable connections are as safe as compression lug ones.



More than 35 patents have been registered for this new Compact NSXm offer.

Efficiency that clicks.

Compact NSXm accessories are available to answer all your needs from power connection to operating mechanism, including electrical auxiliaries. All of them are easily field installable.



Mounting: DIN rail and plate

Embedded DIN rail and plate mounting capabilities for every circuit breaker; no extra parts required.



Auxiliaries: Field-installable offer

All electrical auxiliaries (contacts OF/SD and voltage release MN/MX) can be easily installed in the product by simply opening the front cover and snapping them into cavities.

Their presence in the breaker is externally visible through flags or a window.



Power connection: Flexible

Compact NSXm circuit breakers come with EverLink or compression lug or busbar connector. As an option, you can get EverLink connectors with control wire terminal.

New torque-limiting breakaway bits can be used to tighten power connections in the field.

Compact

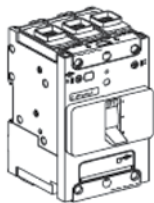
Compact NSXm

Adjustable MCCB : 16A to 160A

Pole(s) : 3P/4P

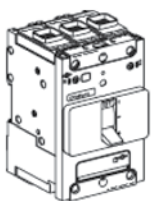
Icu : 16kA - 36kA (Ics = 100% Icu)

16 kA at 380/415 VAC



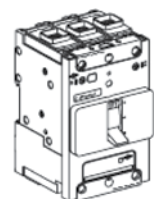
Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSXm100E	LV426100	491.00	LV426110	852.00
25A	100%	NSXm100E	LV426101	491.00	LV426111	852.00
32A	100%	NSXm100E	LV426102	491.00	LV426112	852.00
40A	100%	NSXm100E	LV426103	491.00	LV426113	852.00
50A	100%	NSXm100E	LV426104	491.00	LV426114	852.00
63A	100%	NSXm100E	LV426105	491.00	LV426115	852.00
80A	100%	NSXm100E	LV426106	491.00	LV426116	852.00
100A	100%	NSXm100E	LV426107	491.00	LV426117	852.00
125A	100%	NSXm160E	LV426108	925.00	LV426118	1,342.00
160A	100%	NSXm160E	LV426109	925.00	LV426119	1,342.00

25 kA at 380/415 VAC



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSXm100B	LV426200	560.00	LV426210	971.00
25A	100%	NSXm100B	LV426201	560.00	LV426211	971.00
32A	100%	NSXm100B	LV426202	560.00	LV426212	971.00
40A	100%	NSXm100B	LV426203	560.00	LV426213	971.00
50A	100%	NSXm100B	LV426204	560.00	LV426214	971.00
63A	100%	NSXm100B	LV426205	560.00	LV426215	971.00
80A	100%	NSXm100B	LV426206	560.00	LV426216	971.00
100A	100%	NSXm100B	LV426207	560.00	LV426217	971.00
125A	100%	NSXm160B	LV426208	1,072.00	LV426218	1,526.00
160A	100%	NSXm160B	LV426209	1,052.00	LV426219	1,526.00

36 kA at 380/415V



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSXm100F	LV426300	763.00	LV426310	1,340.00
25A	100%	NSXm100F	LV426301	763.00	LV426311	1,340.00
32A	100%	NSXm100F	LV426302	763.00	LV426312	1,340.00
40A	100%	NSXm100F	LV426303	763.00	LV426313	1,340.00
50A	100%	NSXm100F	LV426304	763.00	LV426314	1,340.00
63A	100%	NSXm100F	LV426305	763.00	LV426315	1,340.00
80A	100%	NSXm100F	LV426306	763.00	LV426316	1,340.00
100A	100%	NSXm100F	LV426307	763.00	LV426317	1,340.00
125A	100%	NSXm160F	LV426308	1,224.00	LV426318	1,884.00
160A	100%	NSXm160F	LV426309	1,224.00	LV426319	1,884.00

3P 3d : Three poles with three poles protection

4P 4d : Four poles with four poles protection

Compact

Compact NSXm

Adjustable MCCB : 16A to 160A

Pole(s) : 3P/4P

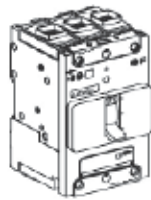
Icu : 50kA - 70kA (Ics = 100% Icu)

50 kA at 380/415 VAC



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSXm100N	LV426400	859.00	LV426410	1,399.00
25A	100%	NSXm100N	LV426401	859.00	LV426411	1,399.00
32A	100%	NSXm100N	LV426402	859.00	LV426412	1,399.00
40A	100%	NSXm100N	LV426403	859.00	LV426413	1,399.00
50A	100%	NSXm100N	LV426404	859.00	LV426414	1,399.00
63A	100%	NSXm100N	LV426405	859.00	LV426415	1,399.00
80A	100%	NSXm100N	LV426406	859.00	LV426416	1,399.00
100A	100%	NSXm100N	LV426407	859.00	LV426417	1,399.00
125A	100%	NSXm160N	LV426408	1,298.00	LV426418	1,950.00
160A	100%	NSXm160N	LV426409	1,298.00	LV426419	1,950.00


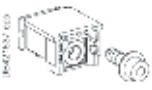




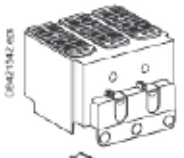
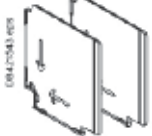

70 kA at 380/415VAC



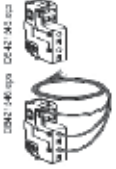

Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSXm100H	LV426500	1,045.00	LV426510	1,575.00
25A	100%	NSXm100H	LV426501	1,045.00	LV426511	1,575.00
32A	100%	NSXm100H	LV426502	1,045.00	LV426512	1,575.00
40A	100%	NSXm100H	LV426503	1,045.00	LV426513	1,575.00
50A	100%	NSXm100H	LV426504	1,045.00	LV426514	1,575.00
63A	100%	NSXm100H	LV426505	1,045.00	LV426515	1,575.00
80A	100%	NSXm100H	LV426506	1,045.00	LV426516	1,575.00
100A	100%	NSXm100H	LV426507	1,045.00	LV426517	1,575.00
125A	100%	NSXm160H	LV426508	1,343.00	LV426518	2,181.00
160A	100%	NSXm160H	LV426509	1,343.00	LV426519	2,181.00

3P 3d : Three poles with three poles protection


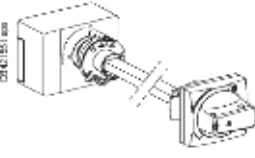

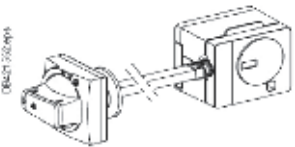



4P 4d : Four poles with four poles protection

Connection accessories (Cu or Al)			Reference	Price (RM)
Bare cable connectors				
	Everlink connector with control wire terminal	1 x (2.5 to 955 mm ²) ;	Set of 3	LV426970 169.00
		≤ 160 A Cu or ≤ 100 A Al	Set of 4	LV426971 197.00
Compression lugs / busbar connectors				
	Terminal with nuts and screws M6	≤ 160 A	Set of 3	LV426960 114.00
			Set of 4	LV426961 148.00
Terminal extensions				
	Spreaders from 27 to 35 mm pitch ⁽¹⁾		3P	LV426940 135.00
			4P	LV426941 178.00
Crimp lugs for copper cable (1)				
	For cable 120 mm ² rigid / 95 mm ² flexible		Set of 3	LV426982 142.00
			Set of 4	LV426983 183.00
Crimp lugs for aluminium cable (1)				
	For cable 95 mm ² rigid / 70 mm ² flexible		Set of 3	LV426984 309.00
			Set of 4	LV426985 407.00
Torque limiting breakaway bits				
			9 N.m	Set of 6 LV426990 104.00
			5 N.m	Set of 8 LV426991 137.00
			5 N.m	Set of 6 LV426992 104.00
			5 N.m	Set of 8 LV426993 137.00
Insulation accessories			Reference	Price (RM)
	1 long terminal shield		3P	LV426912 87.00
			4P	LV426913 99.00
	Interphase barriers		Set of 6	LV426920 90.00
	2 rear insulation screens		3P	LV426922 138.00
			4P	LV426923 158.00

(1) Supplied with 2 or 3 interphase barriers.

Electrical auxiliaries		Reference	Price (RM)	
Auxiliary contacts (changeover)				
	Standard OF or SD	LV426950	165.00	
	Pre-wired OF	LV426951	205.00	
	Pre-wired SD	LV426952	205.00	
SDx for ELCB (1) Micrologic 4.1				
	SDx module 24-250 V AC/DC	LV426900	1,250.00	
Voltage releases (SHT)				
		Voltage	MN	Price (RM)
	AC	24 V 50/60 Hz	LV426801	471.00
		48 V 50/60 Hz	LV426802	471.00
		110...130 V 50/60 Hz	LV426803	471.00
		220...240 V 50 Hz	LV426804	471.00
		208...240 V 60 Hz		
		277 V 60 Hz	LV426805	471.00
		380...415 V 50 Hz	LV426806	471.00
		440...480 V 60 Hz	LV426807	471.00
	DC	24 V DC	LV426801	471.00
		48 V DC	LV426802	471.00
		125 V DC	LV426803	471.00
		250 V DC	LV426815	471.00
			Voltage	MX
AC	24 V 50/60 Hz	LV426841	372.00	
	48 V 50/60 Hz	LV426842	372.00	
	110...130 V 50/60 Hz	LV426843	372.00	
	220...240 V 50 Hz	LV426844	372.00	
	208...240 V 60 Hz			
	277 V 60 Hz	LV426844	372.00	
	380...415 V 50 Hz	LV426846	372.00	
	440...480 V 60 Hz	LV426846	372.00	
DC	24 V DC	LV426841	372.00	
	48 V DC	LV426842	372.00	
	125 V DC	LV426843	372.00	
	250 V DC	LV426844	372.00	

Pre-wired voltage releases are available upon request

Rotary handles		<i>Reference</i>	<i>Price (RM)</i>
Direct rotary handle			
	With black handle	LV426930	310.00
	With red handle on yellow font	LV426931	353.00
Extended rotary handle			
	With black handle IP54	LV426932	441.00
	With red handle on yellow font IP54	LV426933	493.00
	Open door shaft operator	LV426937	358.00
Side rotary handle			
	With black handle IP54	LV426935	425.00
	With red handle on yellow font IP54	LV426936	493.00
Locks		<i>Reference</i>	<i>Price (RM)</i>
Toggle locking device for 1 to 3 padlocks			
	By removable device	29370	108.00
	By fixed device (OFF or ON)	LV426905	123.00
	By fixed device (OFF only)	LV426906	123.00

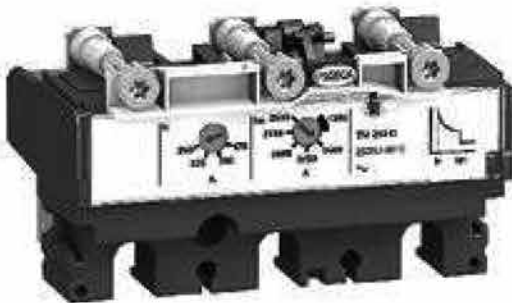
Type of Trip Units

Micrologic Trip Units

(ASIC-Application Specific Integrated Circuit)



Thermal Magnetic Trip Unit



- Available from 16A - 250A
- Overload Setting (I_r) 0.7 - 1 x I_n
- Short Circuit Setting (I_m)
- Fixed upto 160A
- Adjustable 5 - 10 x I_r (for 200A - 250A)

	Protection	Cases	Measurement	Application
	↓	↓	↓	↓
	1 I 2 LS ₀ I 5 LSI 6 LSIG	2 NSX100-250 3 NSX400-630	A Ammeter E Energy Meter	--- Distribution G Generator AB Subscriber M Motor Z 16Hz 2/3
Example				
Micrologic 1.3 M	I	400 or 630 A		Motor
Micrologic 2.2 G	LS ₀ I	100, 160 or 250 A		Generator
Micrologic 2.3	LS ₀ I	400 or 630 A		Distribution
Micrologic 2.3 M	LS ₀ I	400 or 630 A		Motor
Micrologic 5.2 A	LSI	100, 160 or 250 A	Ammerter	Distribution
Micrologic 5.3 E	LSI	400 or 630 A	Energy	Distribution
Micrologic 6.3 E-M	LSIG	400 or 630 A	Energy	Motor

I - Instantaneous

S₀ - Short Time with Fixed Time Delay

S - Short Time with Adjustable Time Delay

G - Ground Fault

Compact

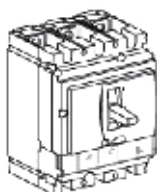
Compact NSX

Adjustable MCCB: 16A to 250A

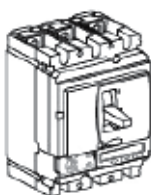
Pole(s) : 3P/4P

Icu : 25kA (Ics = 100% Icu)

25kA at 380/415 VAC



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSX100B	LV429557	703.00	LV429567	1,118.00
25A	100%	NSX100B	LV429556	703.00	LV429566	1,118.00
32A	100%	NSX100B	LV429555	703.00	LV429565	1,118.00
40A	100%	NSX100B	LV429554	703.00	LV429564	1,118.00
50A	100%	NSX100B	LV429553	703.00	LV429563	1,118.00
63A	100%	NSX100B	LV429552	703.00	LV429562	1,118.00
80A	100%	NSX100B	LV429551	703.00	LV429561	1,118.00
100A	100%	NSX100B	LV429550	703.00	LV429560	1,118.00
125A	100%	NSX160B	LV430311	1,224.00	LV430321	1,781.00
160A	100%	NSX160B	LV430310	1,224.00	LV430320	1,781.00
200A	100%	NSX250B	LV431111	1,483.00	LV431121	2,785.00
250A	100%	NSX250B	LV431110	1,483.00	LV431120	2,792.00



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Electronic trip unit Micrologic 2.2 (LSI) protection						
40A	100%	NSX100B	LV429777	1,363.00	LV429787	2,083.00
100A	100%	NSX100B	LV429775	1,363.00	LV429785	2,204.00
160A	100%	NSX160B	LV430745	2,469.00	LV430750	2,814.00
250A	100%	NSX250B	LV431140	2,654.00	LV431150	3,512.00

Other Distribution Protection Trip Units *

LSI protection with Energy meter *Micrologic 5.2E*

LSIG protection with Energy meter *Micrologic 6.2E*

LSIG protection with Ammeter *Micrologic 6.2A*

Other Motor Protection Trip Units *

Magnetic (I protection) *Magnetic MA*

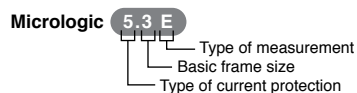
LS/I (Class 5/10/20) protection *Micrologic 2.2M*

LSIG (Class 5/10/20/30) protection with Energy meter *Micrologic 6.2E-M*

Other Generator Protection Trip Units *

Thermal Magnetic *TM-G*

Electronic trip unit (LS/I protection) *Micrologic 2.2G*



A =	Current measurement
E =	Energy measurement
P =	Power measurement
H =	Harmonic measurement
M =	Motor protection

L =	Long time protection
S =	Short time protection
I =	Instantaneous protection
G =	Ground fault protection
V =	Earth leakage protection

(* Please refer to pages 3-8, 3-9 for more combination and pricing.

(* To be ordered with 2 catalogue numbers: 1 basic frame + 1 trip unit (Order separate components is strictly prohibited).

Recommended to add spreaders for ratings 160A and above

3P 3d : Three poles with three poles protection

4P 3d : Four poles with three poles protection

Compact

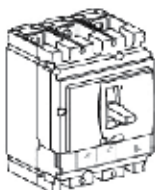
Compact NSX

Adjustable MCCB : 16A to 630A

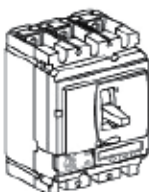
Pole(s) : 3P/4P

Icu : 36kA (Ics = 100% Icu)

36kA at 380/415 VAC



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
TM-D thermal magnetic trip unit						
16A	100%	NSX100F	LV429637	826.00	LV429647	1,443.00
25A	100%	NSX100F	LV429636	826.00	LV429646	1,443.00
32A	100%	NSX100F	LV429635	826.00	LV429645	1,443.00
40A	100%	NSX100F	LV429634	838.00	LV429644	1,443.00
50A	100%	NSX100F	LV429633	838.00	LV429643	1,443.00
63A	100%	NSX100F	LV429632	838.00	LV429642	1,443.00
80A	100%	NSX100F	LV429631	855.00	LV429641	1,443.00
100A	100%	NSX100F	LV429630	857.00	LV429640	1,443.00
125A	100%	NSX160F	LV430631	1,342.00	LV430641	2,063.00
160A	100%	NSX160F	LV430630	1,393.00	LV430640	2,063.00
200A	100%	NSX250F	LV431631	1,803.00	LV431641	3,071.00
250A	100%	NSX250F	LV431630	1,803.00	LV431640	3,071.00



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Electronic trip unit Micrologic 2.2 (LS/I protection)						
40A	100%	NSX100F	LV429772	1,382.00	LV429782	2,979.00
100A	100%	NSX100F	LV429770	1,382.00	LV429780	2,350.00
160A	100%	NSX160F	LV430770	2,151.00	LV430780	2,989.00
250A	100%	NSX250F	LV431770	2,786.00	LV431780	3,901.00
Electronic trip unit Micrologic 2.3 (LS/I protection)						
400A	100%	NSX400F	LV432676	3,054.00	LV432677	5,246.00
630A	100%	NSX630F	LV432876	4,559.00	LV432877	7,182.00

Other Distribution Protection Trip Units *

LSI protection with Energy meter	Micrologic 5.2E, 5.3E
LSIG protection with Energy meter	Micrologic 6.2E, 6.3E
LSIG protection with Ammeter	Micrologic 6.2A
Other Motor Protection Trip Units *	
Magnetic (I protection)	Magnetic MA
LS/I (Class 5/10/20) protection	Micrologic 2.2M
LSIG (Class 5/10/20/30) protection with Energy meter	Micrologic 6.2E-M
Other Generator Protection Trip Units *	
Thermal Magnetic	TM-G
Electronic trip unit (LS/I protection)	Micrologic 2.2G

Micrologic	5	3	E
	Type of measurement		
	Basic frame size		
	Type of current protection		

A =	Current measurement	L =	Long time protection
E =	Energy measurement	S =	Short time protection
P =	Power measurement	I =	Instantaneous protection
H =	Harmonic measurement	G =	Ground fault protection
M =	Motor protection	V =	Earth leakage protection

(* Please refer to the pages 3-8, 3-9 for more combination and pricing.

(* To be ordered with 2 catalogue numbers: 1 basic frame + 1 trip unit (Order separate components is strictly prohibited).

Recommended to add spreaders for ratings 160A and above

3P 3d : Three poles with three poles protection

4P 3d : Four poles with three poles protection

Compact

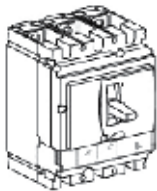
Compact NSX

Adjustable MCCB : 16A to 630A

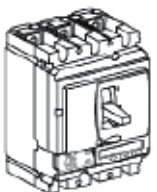
Pole(s) : 3P/4P

Icu : 50kA (Ics = 100% Icu)

50 kA at 380/415V



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Thermal magnetic trip unit						
16A	100%	NSX100N	LV429847	952.00	LV429857	1,509.00
25A	100%	NSX100N	LV429846	952.00	LV429856	1,509.00
32A	100%	NSX100N	LV429845	952.00	LV429855	1,509.00
40A	100%	NSX100N	LV429844	952.00	LV429854	1,509.00
50A	100%	NSX100N	LV429843	952.00	LV429853	1,509.00
63A	100%	NSX100N	LV429842	952.00	LV429852	1,509.00
80A	100%	NSX100N	LV429841	952.00	LV429851	1,509.00
100A	100%	NSX100N	LV429840	952.00	LV429850	1,509.00
125A	100%	NSX160N	LV430841	1,516.00	LV430851	2,215.00
160A	100%	NSX160N	LV430840	1,516.00	LV430850	2,215.00
200A	100%	NSX250N	LV431831	2,060.00	LV431841	3,269.00
250A	100%	NSX250N	LV431830	2,060.00	LV431840	3,269.00



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Electronic trip unit Micrologic 2.2 (LS_oI protection)						
40A	100%	NSX100N	LV429797	1,786.00	LV429807	3,158.00
100A	100%	NSX100N	LV429795	1,786.00	LV429805	2,454.00
160A	100%	NSX160N	LV430775	2,533.00	LV430785	3,997.00
250A	100%	NSX250N	LV431870	3,008.00	LV431875	4,484.00
Electronic trip unit Micrologic 2.3 (LS_oI protection)						
400A	100%	NSX400N	LV432693	3,316.00	LV432694	5,840.00
630A	100%	NSX630N	LV432893	5,065.00	LV432894	8,398.00

Other Distribution Protection Trip Units *

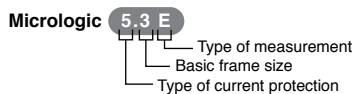
LSI protection with Energy meter **Micrologic 5.2E**
 LSIG protection with Energy meter **Micrologic 6.2E**
 LSIG protection with Ammeter **Micrologic 6.2A**

Other Motor Protection Trip Units *

Magnetic (I protection) **Magnetic MA**
 LS/I (Class 5/10/20) protection **Micrologic 2.2M**
 LSIG (Class 5/10/20/30) protection with Energy meter **Micrologic 6.2E-M**

Other Generator Protection Trip Units *

Thermal Magnetic **TM-G**
 Electronic trip unit (LS/I protection) **Micrologic 2.2G**



A =	Current measurement	L =	Long time protection
E =	Energy measurement	S =	Short time protection
P =	Power measurement	I =	Instantaneous protection
H =	Harmonic measurement	G =	Ground fault protection
M =	Motor protection	V =	Earth leakage protection

(*) Please refer to the pages 3-8, 3-9 for more combination and pricing.

(*) To be ordered with 2 catalogue numbers: 1 basic frame + 1 trip unit (Order separate components is strictly prohibited)

Recommended to add spreaders for ratings 160A and above

3P 3d : Three poles with three poles protection

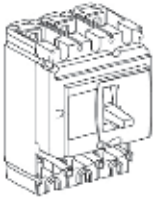
4P 3d : Four poles with three poles protection

Compact

Compact NSX100/160/250

Basic frame and separate components

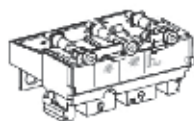
Pole(s) : 3P/4P

Basic frame	Reference	Price (RM)	Reference	Price (RM)	
	Compact NSX100				
		3P		4P	
	NSX100B (25kA 380/415V)	LV429014	731.00	LV429015	1,114.00
	NSX100F (36kA 380/415V)	LV429003	732.00	LV429008	1,392.00
	NSX100N (50kA 380/415V)	LV429006	1,033.00	LV429011	1,984.00
	NSX100H (70kA 380/415V)	LV429004	1,254.00	LV429009	2,076.00
	NSX100S (100kA 380/415V)	LV429018	1,567.00	LV429019	2,385.00
	NSX100L (150kA 380/415V)	LV429005	2,512.00	LV429010	3,572.00
	Compact NSX160				
		3P		4P	
	NSX160B (25kA 380/415V)	LV430390	1,252.00	LV430395	1,486.00
	NSX160F (36kA 380/415V)	LV430403	1,483.00	LV430408	2,046.00
	NSX160N (50kA 380/415V)	LV430406	1,743.00	LV430411	2,214.00
	NSX160H (70kA 380/415V)	LV430404	2,008.00	LV430409	2,900.00
	NSX160S (100kA 380/415V)	LV430391	3,481.00	LV430396	3,818.00
	NSX160L (150kA 380/415V)	LV430405	5,447.00	LV430410	4,408.00
	Compact NSX250				
		3P		4P	
	NSX250B (25kA 380/415V)	LV431390	1,340.00	LV431395	1,862.00
	NSX250F (36kA 380/415V)	LV431403	1,579.00	LV431408	2,186.00
	NSX250N (50kA 380/415V)	LV431406	2,017.00	LV431411	2,535.00
NSX250H (70kA 380/415V)	LV431404	2,363.00	LV431409	4,045.00	
NSX250S (100kA 380/415V)	LV431391	3,724.00	LV431396	5,746.00	
NSX250L (150kA 380/415V)	LV431405	6,598.00	LV431410	8,443.00	

+ Trip unit

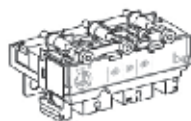
Distribution protection

Thermal-magnetic TM-D



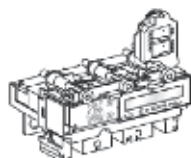
Rating	3P 3d	4P 3d
TM16D	LV429037	610.00
TM25D	LV429036	610.00
TM32D	LV429035	610.00
TM40D	LV429034	610.00
TM50D	LV429033	610.00
TM63D	LV429032	610.00
TM80D	LV429031	610.00
TM100D	LV429030	610.00
TM125D	LV430431	799.00
TM160D (1)	LV430430	765.00
TM160D (2)	LV431432	1,053.00
TM200D	LV431431	1,053.00
TM250D	LV431430	963.00

Micrologic 2.2 (LS_oI protection)



Rating	3P 3d	4P 3d, 4d, 3d + N/2
Micrologic 2.2 40A	LV429072	1,793.00
Micrologic 2.2 100A	LV429070	1,407.00
Micrologic 2.2 160A	LV430470	1,809.00
Micrologic 2.2 250A	LV431470	2,181.00

Micrologic 5.2E (LSI protection, energy meter)



Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
Micrologic 5.2E 40A	LV429096	4,690.00
Micrologic 5.2E 100A	LV429095	4,690.00
Micrologic 5.2E 160A	LV430491	4,800.00
Micrologic 5.2E 250A	LV431491	4,922.00

Micrologic 6.2A (LSIG protection, ammeter)

Micrologic 6.2E (LSIG protection, energy meter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
Micrologic 6.2E 40A	LV429116	5,310.00
Micrologic 6.2E 100A	LV429115	5,310.00
Micrologic 6.2E 160A	LV430506	5,556.00
Micrologic 6.2E 250A	LV431506	6,081.00

(1) For NSX160.

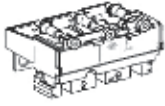
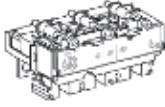
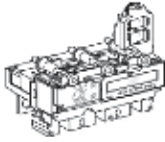
(2) For NSX250.

Compact

Compact NSX100/160/250

Basic frame and separate components (cont')

Pole(s) : 3P/4P

+ Trip unit (cont.)		Reference	Price (RM)	Reference	Price (RM)
Motor protection					
Magnetic MA (I protection)					
	Rating	3P 3d		4P 3d	
	MA2.5	LV429125	1,024.00		-
	MA6.3	LV429124	1,024.00		-
	MA12.5	LV429123	1,024.00		-
	MA25	LV429122	1,024.00		-
	MA50	LV429121	1,024.00		-
	MA100	LV429120	1,024.00	LV429130	1,196.00
	MA150	LV430500	1,321.00	LV430510	1,196.00
MA220	LV431500	1,362.00	LV431510	1,458.00	
Micrologic 2.2-M (LS_oI protection)					
	Rating	3P 3d			
	Micrologic 2.2-M 25A	LV429174	1,220.00		-
	Micrologic 2.2-M 50A	LV429172	1,036.00		-
	Micrologic 2.2-M 100A	LV429170	1,036.00		-
	Micrologic 2.2-M 150A	LV430520	1,284.00		-
	Micrologic 2.2-M 220A	LV431520	1,720.00		-
Micrologic 6.2E-M (LSIG protection, energy meter)					
	Rating	3P 3d			
	Micrologic 6.2E-M 25A	LV429184	4,500.00		-
	Micrologic 6.2E-M 50A	LV429182	4,500.00		-
	Micrologic 6.2E-M 80A	LV429180	4,500.00		-
	Micrologic 6.2E-M 150A	LV430521	4,850.00		-
	Micrologic 6.2E-M 220A	LV431521	5,300.00		-

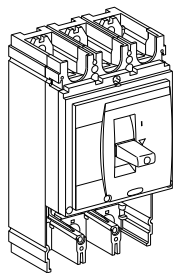
Compact NSX NSX400/630

Basic frame and separate components

Pole(s) : 3P/4P

Basic frame

DB111460

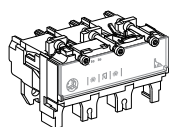


Compact NSX400	Price (RM)		Price (RM)	
	3P		4P	
NSX400F (36kA 380/415V)	LV432413	2,318.00	LV432415	4,363.00
NSX400N (50kA 380/415V)	LV432403	2,582.00	LV432408	6,388.00
NSX400H (70kA 380/415V)	LV432404	2,736.00	LV432409	4,870.00
NSX400S (100kA 380/415V)	LV432414	6,295.00	LV432416	7,451.00
NSX400L (150kA 380/415V)	LV432405	7,114.00	LV432410	9,416.00
Compact NSX630				
	3P		4P	
NSX630F (36kA 380/415V)	LV432813	4,443.00	LV432815	5,241.00
NSX630N (50kA 380/415V)	LV432803	5,399.00	LV432808	8,408.00
NSX630H (70kA 380/415V)	LV432804	5,953.00	LV432809	9,199.00
NSX630S (100kA 380/415V)	LV432814	8,191.00	LV432816	12,239.00
NSX630L (150kA 380/415V)	LV432805	12,610.00	LV432810	15,008.00

+ Trip unit

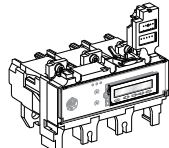
Distribution protection

DB111461



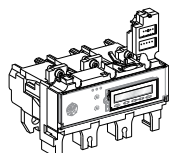
Micrologic 2.3 (LS _o I protection)				
Rating	3P 3d		4P 3d, 4d, 3d + N/2	
Micrologic 2.3 250A	LV432082	1,918.00	LV432086	2,650.00
Micrologic 2.3 400A	LV432081	2,062.00	LV432085	3,053.00
Micrologic 2.3 630A	LV432080	2,387.00	LV432084	3,191.00

DB111462



Micrologic 5.3E (LSI protection, energy meter)				
Rating	3P 3d		4P 3d, 4d, 3d + N/2, 3d + OSN	
Micrologic 5.3E 400A	LV432097	5,150.00	LV432100	6,906.00
Micrologic 5.3E 630A	LV432096	7,659.00	LV432099	13,662.00

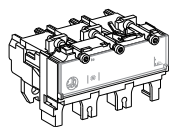
DB111462



Micrologic 6.3E (LSIG protection, energy meter)				
Rating	3P 3d		4P 3d, 4d, 3d + N/2, 3d + OSN	
Micrologic 6.3E 400A	LV432109	5,989.00	LV432112	8,933.00
Micrologic 6.3E 630A	LV432108	7,050.00	LV432111	13,424.00

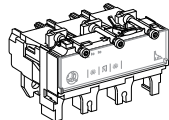
Motor protection

DB111463



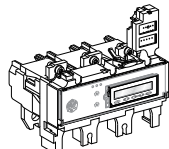
Micrologic 1.3-M (I protection)				
Rating	3P 3d		4P 3d	
Micrologic 1.3-M 320A	LV432069	2,045.00	LV432078	2,815.00
Micrologic 1.3-M 500A	LV432068	2,177.00	LV432077	3,405.00

DB111461

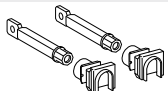
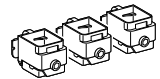
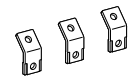
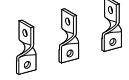
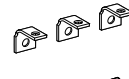
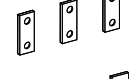

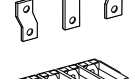
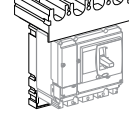
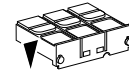
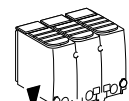

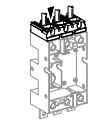
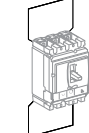


Micrologic 2.3-M (LS _o I protection)				
Rating	3P 3d			
Micrologic 2.3-M 320A	LV432072	2,094.00		
Micrologic 2.3-M 500A	LV432071	2,446.00		


DB111462




Micrologic 6.3E-M (LSIG protection, energy meter)				
Rating	3P 3d			
Micrologic 6.3E-M 320A	LV432075	5,563.00		
Micrologic 6.3E-M 500A	LV432074	8,822.00		


Connection accessories (Cu or Al)			Reference	Price (RM)
Rear connections				
DB112225 	2 short		LV429235	204.00
	2 long		LV429236	274.00
Bare cable connectors				
DB112226 	Steel connectors	1 x (1.5 to 95mm ²)	Set of 3	LV429242 140.00
			Set of 4	LV429243 181.00
Terminal extensions				
DB112230 	45° terminal extension (1)		Set of 3	LV429223 143.00
			Set of 4	LV429224 155.00
DB112231 	Edgewise terminal extensions (1)		Set of 3	LV429308 137.00
			Set of 4	LV429309 301.00
DB112232 	Right-angle terminal extensions (1)		Set of 3	LV429261 151.00
			Set of 4	LV429262 205.00
DB112233 	Straight terminal extensions (1)		Set of 3	LV429263 121.00
			Set of 4	LV429264 165.00
DB112234 	Double-L terminal extensions (1)		Set of 3	LV429221 188.00
			Set of 4	LV429222 245.00
DB112235 	Spreaders from 35 to 45mm pitch (1)		3P	LV431563 141.00
			4P	LV431564 191.00
DB112236 	One-piece spreader from 35 to 45mm pitch		3P	LV431060 810.00
			4P	LV431061 778.00
		Front alignment base (for one-piece spreader)	3P/4P	LV431064 273.00
Insulation accessories				
DB112239 	1 short terminal shield for breaker or plug-in base		3P	LV429515 78.00
			4P	LV429516 89.00
DB112240 	1 long terminal shield for breaker or plug-in base		3P	LV429517 92.00
			4P	LV429518 105.00
DB112241 	Interphase barriers for breaker or plug-in base		Set of 6	LV429329 94.00
DB112734 	Connection adapter for plug-in base		3P	LV429306 93.00
			4P	LV429307 112.00
DB112242 	2 insulating screens for breaker (45mm pitch)		3P	LV429330 184.00
			4P	LV429331 210.00


(1) Supplied with 2 or 3 interphase barriers.

Electrical auxiliaries			Reference	Price (RM)
Auxiliary contacts (changeover)				
DB11254		OF or SD or SDE or SDV	29450	176.00
		OF or SD or SDE or SDV low level	29452	307.00
		SDE adapter, mandatory for trip unit TM, MA or Micrologic 2	LV429451	111.00


SDx output module for Micrologic				
DB11275		SDx module 24/415V AC/DC	LV429532	1,681.00

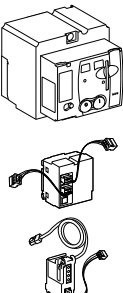
SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.2-M / 6.2E-M				
DB11276		SDTAM 24/415V AC/DC overload fault indication	LV429424	1,338.00

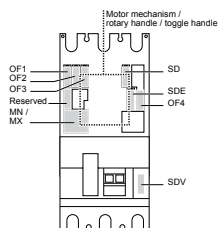
Voltage releases (SHT)					
		Voltage	MX/SHT	Price (RM)	
DB11454		AC	110-130V 50/60Hz	LV429386	361.00
			220-240V 50/60Hz and 208-277V 60Hz	LV429387	361.00
			380-415V 50/60Hz and 440-480V 60Hz	LV429388	361.00
		DC	24V	LV429390	361.00
48V	LV429392		361.00		
125V	LV429393		361.00		
Other AC and DC voltages available upon request					

Undervoltage releases (UVR)					
		Voltage	MN/UVR	Price (RM)	
DB11454		AC	110-130V 50/60Hz	LV429406	506.00
			220-240V 50/60Hz and 208-277V 60Hz	LV429407	506.00
			380-415V 50/60Hz and 440-480V 60Hz	LV429408	506.00
		DC	24V	LV429410	506.00
48V	LV429412		506.00		
125V	LV429413		506.00		
Other AC and DC voltages available upon request					

Motor mechanism (For NSX only)

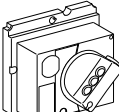
Motor mechanism module supplied with SDE adapter					Reference	Price (RM)
DB11690		AC	MT 100/160	220-240V 50/60Hz and 380-415V 50/60Hz and	LV429434	3,114.00
				220-240V 50/60Hz and 380-415V 50/60Hz and	LV429435	3,120.00
			MT 250	220-240V 50/60Hz and 380-415V 50/60Hz and	LV431541	3,877.00
				220-240V 50/60Hz and 380-415V 50/60Hz and	LV431542	3,848.00
Other AC and DC voltages available upon request						

Communicating motor mechanism module supplied with SDE adapter								
DB11285		Motor mechanism module	MT 100/160	220-240V 50/60Hz	LV429441	4,834.00		
			MT 250	220-240V 50/60Hz	LV431549	5,076.00		
		+						
		Breaker and Status Communication Module		BSCM		LV434205	1,037.00	
		+						
		NSX cord		Wire length L = 0.35m		LV434200	741.00	
				Wire length L = 1.3m		LV434201	627.00	
				Wire length L = 3m		LV434202	830.00	
				U > 480V AC wire length L = 0.35m		LV434204	3,682.00	

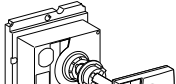


- 2 ON/OFF (OF1 and OF2)
- Trip indication (SD)
- Fault-trip indication (SDE)
- Earth-fault indication (SDV), when the device is equipped with a Vigi module
- MN undervoltage release
- MX shunt release

Rotary handles**Direct rotary handle**

DB112259 	With black handle	LV429337	330.00
	With red handle on yellow front (1)	LV429339	373.00
	MCC conversion accessory (1)	LV429341	229.00
	CNOMO conversion accessory (1)	LV429342	341.00

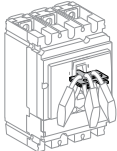
Extended rotary handle

DB112260 	With black handle	LV429338	442.00
	With red handle on yellow front (1)	LV429340	533.00
	With telescopic handle for withdrawable device (1)	LV429343	824.00

Accessories for direct or extended rotary handle


Indication auxiliary	1 early-break contact	LV429345	754.00
	2 early-make contacts	LV429346	769.00

Locks**Toggle locking device for 1 to 3 padlocks**

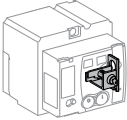
DB112261 	By removable device	29370	108.00
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DB112262 	By fixed device	LV429371	138.00
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Locking of rotary handle

DB112263 	Keylock adapter (keylock not included) (2)	LV429344	138.00	
	Keylock (keylock adapter not included)	Ronis 1351B.500	41940	320.00
		Profalux KS5 B24 D4Z	42888	383.00

Locking of motor mechanism module

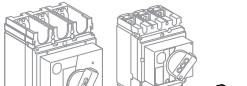
DB112264 	Keylock adapter + Ronis keylock (special)	LV429449	610.00
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Interlocking**Mechanical interlocking for circuit breakers**

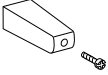
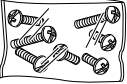

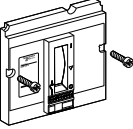
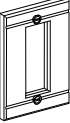

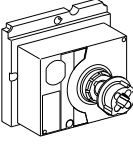
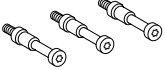

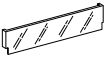

DB111466 	With toggles	NSX	LV429354	950.00
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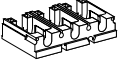
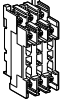
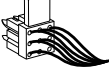
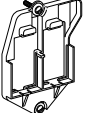
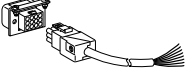
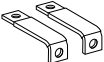

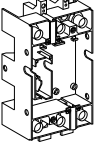
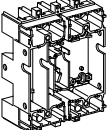


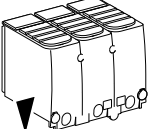
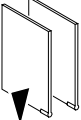
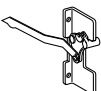
DB111487 	With rotary handles		LV429369	1,370.00
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Interlocking with key (2 keylocks / 1 key) for rotary handles

DB112268 	Keylock adapter (keylock not included) (2)	LV429344	138.00	
	1 set of 2 keylocks	Ronis 1351B.500	41950	582.00
	(1 key only, keylock adapter not included)	Profalux KS5 B24 D4Z	42878	772.00

(1) For only 1 device.

Spare parts		Reference	Price (RM)
DB111430 	10 spare toggle extensions	LV429313	188.00
DB115820 	Bag of screws	LV429312	71.00
DB111431 	12 snap-in nuts (fixed/FC)	M6 for NSX100 M8 for NSX160/250	LV429234 280.00 LV430554 280.00
		M6 for CVS100 M8 for CVS160/250	LV510100 280.00 LV516060 280.00
DB111432 	NS retrofit escutcheon (1)	Small cut-out	LV429528 115.00
DB111433 	IP40 toggle escutcheon (1)	Compact NS type / small cut-out	29315 128.00
DB111438 	1 set of 10 identification labels		LV429226 130.00
DB111429 	1 base for extended rotary handle (1)		LV429502 543.00
DB111434 	Torque limiting screws (set of 12) (1)	3P/4P Compact NSX100-250	LV429513 288.00
DB111435 	LCD display for electronic trip unit (1)	Micrologic 5 Micrologic 6 Micrologic 6-E-M	LV429483 1,627.00 LV429484 1,627.00 LV429486 1,627.00
DB111436 	5 transparent covers for trip unit (1)	TM, MA, NA Micrologic 2 Micrologic 5/6	LV429481 273.00 LV429481 273.00 LV429478 257.00
DB115886 	5 opaque covers for Micrologic 5/6 (1)		LV429479 257.00

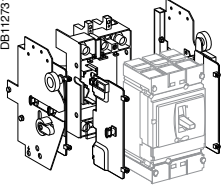
Plug-in/withdrawable version accessories			Reference	Price (RM)
Insulation accessories				
DB117159 	1 connection adapter for plug-in base	3P	LV429306	93.00
		4P	LV429307	112.00
Auxiliary connections				
DB117160 	1 9-wire fixed connector (for base)		LV429273	232.00
DB117161 	1 9-wire moving connector (for circuit breaker)		LV429274	205.00
DB117162 	1 support for 2 moving connectors		LV429275	103.00
DB115865 	9-wire manual auxiliary connector (fixed + moving)		LV429272	559.00
Plug-in base accessories				
DB117164 	2 long insulated right angle terminal extensions	Set of 2	LV429276	598.00
DB117165 	2 IP40 shutters for base		LV429271	272.00
DB117166 	Base	2P	LV429265	831.00
		3P	LV429266	909.00
DB117167 	Base	4P	LV429267	1,208.00
DB117168 	2 power connections	2/3/4P	LV429268	157.00
	1 short terminal shield 	2/3P	LV429515	78.00
4P		LV429516	89.00	
DB112240 	1 long terminal shield for breaker or plug-in base	3P	LV429517	92.00
		4P	LV429518	105.00
DB112241 	Interphase barriers for breaker or plug-in base	Set of 6	LV429329	94.00
DB117171 	1 safety trip interlock	2/3/4P	LV429270	105.00

This range of accessories are not available for CVS.

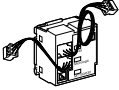
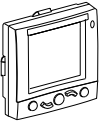
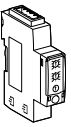
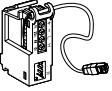






Compact

NSX 100/160/250 Accessories

Vigi Module and Plug-In / Withdrawable Kit

Withdrawable version = fixed / FC device + withdrawable kit					
Kit for Compact	Description	Reference	Price (RM)	Reference	Price (RM)
		3P		4P	
		Kit	2,724.00	Kit	3,202.00
		for Compact		for Compact	
	Plug-in kit	= 1 x LV429289	1,637.00	= 1 x LV429290	2,115.00
	Chassis side plates for base	+ 1 x LV429282	747.00	+ 1 x LV429282	747.00
Chassis side plates for breaker	+ 1 x LV429283	340.00	+ 1 x LV429283	340.00	

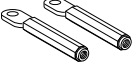
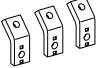
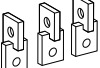


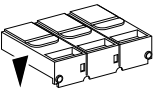
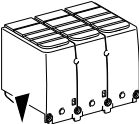
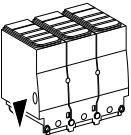
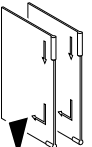
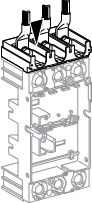
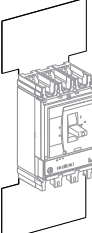
Monitoring and control (remote operation)

Circuit breaker accessories		Reference	Price (RM)
DB111439 	Breaker Status Control Module BSCM (1)	LV434205	1,037.00
ULP display module⁽²⁾			
DB111440 	Switchboard front display module FDM121	TRV00121	2,931.00
	FDM mounting accessory (diameter 22mm)	TRV00128	177.00
ULP communication module			
DB111441 	Modbus interface Modbus SL communication interface module	LV434000	1,967.00
ULP wiring accessories			
DB111442 	NSX cord L = 0.35m	LV434200	741.00
	NSX cord L = 1.3m	LV434201	627.00
	NSX cord L = 3m	LV434202	830.00
	NSX cord for U > 480V AC L = 1.3m	LV434204	3,682.00
DB115621 	10 stacking connectors for communication interface modules	TRV00217	2,126.00
DB111443 	10 Modbus line terminators	VW3A8306DRC	(*)
DB115622 	RS 485 roll cable (4-wire, length 60m)	50965	7,000.00
DB115623 	5 RJ45 connectors female/female	TRV00870	890.00
DB111444 	10 ULP line terminators	TRV00880	395.00
DB111445 	10 RJ45/RJ45 male cord L = 0.3m	TRV00803	986.00
	10 RJ45/RJ45 male cord L = 0.6m	TRV00806	1,356.00
	5 RJ45/RJ45 male cord L = 1m	TRV00810	913.00
	5 RJ45/RJ45 male cord L = 2m	TRV00820	1,506.00
	5 RJ45/RJ45 male cord L = 3m	TRV00830	1,511.00
	1 RJ45/RJ45 male cord L = 5m	TRV00850	596.00

(1) SDE adapter mandatory for trip unit TM, MA or Micrologic 2 (LV429451).

(2) For measurement display with Micrologic A and E or status display with BSCM.

(*) Please consult our **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free).

Connection accessories (Cu or Al)				
Rear connections			Reference	Price (RM)
DB11471 	2 short		LV432475	<i>330.00</i>
	2 long		LV432476	<i>643.00</i>
Terminal extensions ⁽¹⁾				
DB11549 	45° terminal extensions	Set of 3	LV432586	<i>500.00</i>
		Set of 4	LV432587	<i>530.00</i>
DB11560 	Edgewise terminal extensions	Set of 3	LV432486	<i>1,136.00</i>
		Set of 4	LV432487	<i>1,885.00</i>
DB11561 	Right-angle terminal extensions	Set of 3	LV432484	<i>369.00</i>
		Set of 4	LV432485	<i>623.00</i>
DB11562 	Spreaders	52.5mm (for 400A) 3P	LV432490	<i>363.00</i>
		4P	LV432491	<i>454.00</i>
	70mm (for 630A)	3P	LV432492	<i>503.00</i>
		4P	LV432493	<i>667.00</i>
Insulation accessories				
DB11472 	Short terminal shield, 45mm (1 piece)	3P	LV432591	<i>133.00</i>
		4P	LV432592	<i>155.00</i>
DB11473 	Long terminal shield, 45mm (1 piece)	3P	LV432593	<i>241.00</i>
		4P	LV432594	<i>291.00</i>
DB11526 	Long terminal shield for spreaders, 52.5mm (1 piece) (supplied with insulating plate)	3P	LV432595	<i>363.00</i>
		4P	LV432596	<i>438.00</i>
DB11532 	Interphase barriers	Set of 6	LV432570	<i>134.00</i>
DB11527 	Connection adapter for plug-in base	3P	LV432584	<i>192.00</i>
		4P	LV432585	<i>213.00</i>
DB11528 	2 insulating screens (70mm pitch)	3P	LV432578	<i>167.00</i>
		4P	LV432579	<i>233.00</i>

Electrical auxiliaries**Auxiliary contacts (changeover)**

	Reference	Price (RM)
DB112254  OF or SD or SDE or SDV	29450	176.00
OF or SD or SDE or SDV low level	29452	307.00


SDx output module for Micrologic electronic trip unit

DB112275  SDx module 24/415V AC/DC (1)	LV429532	1,681.00
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SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.3-M/6.3 E-M

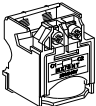
DB112276  SDTAM 24/415V AC/DC overload fault indication (1)	LV429424	1,338.00
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Voltage releases (SHT)

	Voltage	MX/SHT	Price (RM)
DB111464  AC	110-130V 50/60Hz	LV429386	361.00
	220-240V 50/60Hz and 208-277V 60Hz	LV429387	361.00
	380-415V 50/60Hz and 440-480V 60Hz	LV429388	361.00
DC	24V	LV429390	361.00
	48V	LV429392	361.00
	125V	LV429393	361.00

Other AC and DC voltages available upon request

Undervoltage releases (UVR)

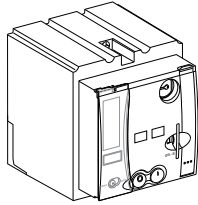
	Voltage	MN/Closing	Price (RM)
DB111454  AC	110-130V 50/60Hz	LV429406	506.00
	220-240V 50/60Hz and 208-277V 60Hz	LV429407	506.00
	380-415V 50/60Hz and 440-480V 60Hz	LV429408	506.00
DC	24V	LV429410	506.00
	48V	LV429412	506.00
	125V	LV429413	506.00

(1) Other AC and DC voltages available upon request.

Motor mechanism (For NSX only)

Motor mechanism module

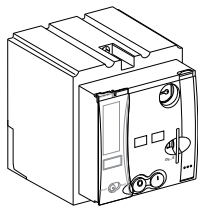
DB111475



	Voltage	Reference	Price (RM)
AC	220-240V 50/60Hz and 208-277 V 60Hz	MT400-630 LV432641	7,382.00
	380-415V 50Hz	LV432642	7,391.00
Other AC and DC voltages available upon request			
Operation counter		LV432648	1,411.00

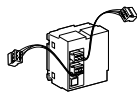
Communication motor mechanism module

DB111476



Motor mechanism module	MTC 400/630	220-240V 50/60Hz	LV432652	8,844.00
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Breaker and Status Communication Module	BSCM		LV434205	1,037.00
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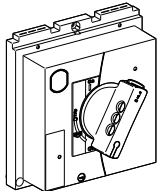


NSX cord	Wire length L = 0.35m		LV434200	741.00
	Wire length L = 1.3m		LV434201	627.00
	Wire length L = 3m		LV434202	830.00
	U > 480V AC wire length L = 0.35m		LV434204	3,682.00

Rotary handles

Direct rotary handle

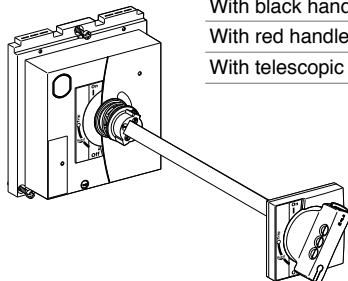
DB111480



With black handle		LV432597	516.00
With red handle on yellow front (1)		LV432599	845.00
MCC conversion accessory (1)		LV432606	473.00
CNOMO conversion accessory (1)		LV432602	587.00

Extended rotary handle

DB111481



With black handle		LV432598	726.00
With red handle on yellow front (1)		LV432600	891.00
With telescopic handle for withdrawable device (1)		LV432603	1,130.00

Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV432605	754.00
	2 early-make contacts	LV429346	769.00

Locks**Toggle locking device for 1 to 3 padlocks**

DB111483



By removable device

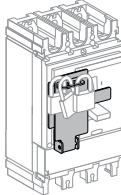
Reference

Price (RM)

29370

108.00

DB111482



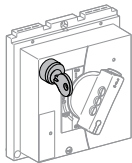
By fixed device

LV432631

238.00

Locking of rotary handle

DB111484



Keylock adapter (keylock not included)

LV432604

151.00

Keylock (keylock adapter not included)

Ronis 1351B.500

41940

320.00

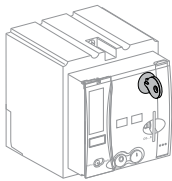
Profalux KS5 B24 D4Z

42888

383.00

Locking of motor mechanism module

DB111485



Keylock adapter (keylock not included)

LV432649

150.00

Keylock (keylock adapter not included)

Ronis 1351B.500

41940

320.00

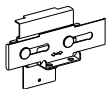
Profalux KS5 B24 D4Z

42888

383.00

Interlocking**Mechanical interlocking for circuit breakers**

DB111486



With toggles

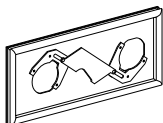
Reference

Price (RM)

LV432614

1,466.00

DB111487



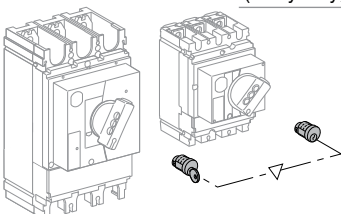
With rotary handles

LV432621

1,519.00

Interlocking with key (2 keylocks / 1 key) for rotary handles

DB112268



Keylock adapter (keylock not included) (1)

LV432604

151.00

1 set of 2 keylocks

Ronis 1351B.500

41950

582.00

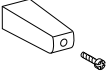
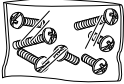
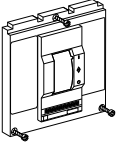
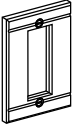
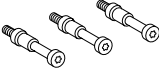

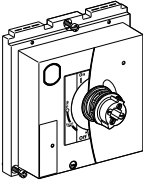

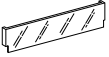

(1 key only, keylock adapter not included)

Profalux KS5 B24 D4Z

42878

772.00

(1) For only 1 device.

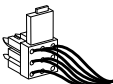
Spare parts		Reference	Price (RM)
DB111430 	5 spare toggle extensions	LV432553	395.00
DB115620 	Bag of screws	LV432552	78.00
DB111483 	Compact NS retrofit escutcheon (1) Small cut-out	LV432571	125.00
DB111433 	IP40 toggle escutcheon (1) Compact NS type/small cut-out	32556	157.00
DB111434 	Torque limiting screws (set of 12) (1) 3P/4P Compact NSX400-630	LV432513	311.00
DB111438 	1 set of 10 identification labels	LV429226	130.00
DB111485 	1 base for extended rotary handle (1)	LV432498	1,833.00
DB111435 	LCD display for electronic trip unit (1) Micrologic 5	LV429483	1,627.00
	Micrologic 6	LV429484	1,627.00
	Micrologic E-M	LV429486	1,627.00
DB111436 	5 transparent covers for electronic trip unit (1) Micrologic 5/6	LV432459	273.00
	Micrologic 2	LV432461	283.00
DB115907 			

Plug-in/withdrawable version accessories**Insulation accessories**


			Reference	Price (RM)
DB117169 	Connection adapter for plug-in base	3P	LV432584	192.00
		4P	LV432585	213.00

Auxiliary connections

DB117160 	1 9-wire fixed connector (for base)		LV429273	232.00
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DB117161 	1 9-wire moving connector (for circuit breaker)		LV432523	204.00
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DB116968 	1 support for 3 moving connectors		LV432525	116.00
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DB116985 	9-wire manual auxiliary connector (fixed + moving)		LV429272	559.00
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Plug-in base accessories

DB117164 	Long insulated right angle terminal extensions	Set of 2	LV432526	873.00
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DB117165 	2 IP40 shutters for base		LV432521	246.00
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DB117180 	Base	3P	LV432516	2,537.00
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DB117181 	Base	4P	LV432517	3,138.00
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DB117182 	Power connections	3/4P	LV432518	311.00
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DB117183 	Short terminal shield	3P	LV432591	133.00
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DB117184 	Short terminal shield		LV432592	155.00
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DB117171 	Safety trip interlock	3/4P	LV432520	133.00
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Monitoring and control (remote operation)

Circuit breaker accessories		Reference	Price (RM)
DB111439	Breaker Status Control Module (BSCM)	LV434205	1,037.00
ULP display module (1)			
DB111440	Switchboard front display module FDM121	TRV00121	2,931.00
	FDM mounting accessory (diameter 22mm)	TRV00128	177.00
ULP communication module			
DB111441	Modbus interface Modbus SL communication interface module	LV434000	1,967.00
ULP wiring accessories			
DB111442	NSX cord L = 0.35m	LV434200	741.00
	NSX cord L = 1.3m	LV434201	627.00
	NSX cord L = 3m	LV434202	830.00
	NSX cord for U > 480V AC L = 1.3m	LV434204	3,682.00
DB115621	10 stacking connectors for communication interface modules	TRV00217	2,126.00
DB111443	10 Modbus line terminators	VW3A8306DRC	(*)
DB115622	RS 485 roll cable (4-wire, length 60m)	50965	7,000.00
DB115623	5 RJ45 connectors female/female	TRV00870	890.00
DB111444	10 ULP line terminators	TRV00880	395.00
DB111445	10 RJ45/RJ45 male cord L = 0.3m	TRV00803	986.00
	10 RJ45/RJ45 male cord L = 0.6m	TRV00806	1,356.00
	5 RJ45/RJ45 male cord L = 1m	TRV00810	913.00
	5 RJ45/RJ45 male cord L = 2m	TRV00820	1,506.00
	5 RJ45/RJ45 male cord L = 3m	TRV00830	1,511.00
	1 RJ45/RJ45 male cord L = 5m	TRV00850	596.00

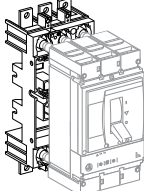
(1) For measurement display with Micrologic A and E or status display with BSCM.

(*) Please consult our **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free).

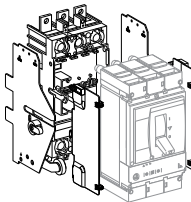
Compact

NSX 400/630

Vigi Module and Plug-In / Withdrawable Kit

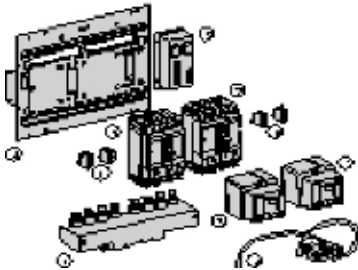
Plug-in version = fixed / FC device + plug-in kit					
Kit for Compact		Reference	Price (RM)	Reference	Price (RM)
	Plug-in kit comprising:	3P		4P	
		LV432538	3,869.00	LV432539	4,825.00
	Base	= 1 x LV432516	2,537.00	= 1 x LV432517	3,138.00
	Power connections	+ 3 x LV432518	933.00	+ 4 x LV432518	1,244.00
	Short terminal shields	+ 2 x LV432591	266.00	+ 2 x LV432592	310.00
Safety trip interlock	+ 1 x LV432520	133.00	+ 1 x LV432520	133.00	

Supplied with 2 or 3 interphase barriers.

Withdrawable version = fixed / FC device + withdrawable kit					
Kit for Compact		Reference	Price (RM)	Reference	Price (RM)
		3P		4P	
		Kit for Compact	5,178.00	Kit for Compact	6,133.00
	Plug-in kit	1 x LV432538	3,865.00	1 x LV432539	4,820.00
	Chassis side plates for base	1 x LV432532	981.00	1 x LV432532	981.00
	Chassis side plates for breaker	1 x LV432533	332.00	1 x LV432533	332.00

Pole(s) : 3P/4P

Icu : 50kA

50kA Source Changeover System

* For other short circuit (kA) ratings, please replace the breakers accordingly, or please consult our **CustomerCareCentre** for information : 1-800-880-877 (Toll Free)

Composed of:

+ 2 breakers + 2 motor mechanism

+ Auxiliary switches

2 x (1 OF + 1 SDE) for Compact NSX100...630

2 x (3 OF + 1 SD) + 2 x SDE for Compact NS800...1600

+ 1 plate with interlocking with IVE and its wiring

Optional : BA / UA Automatic Changeover Controller

Frame Size	Description	Reference	Price	50kA 3-pole		50kA 4-pole		
				Reference	Price (RM)	Reference	Price (RM)	
100A	Motor mechanism (220V AC)	LV429434	X 2	4,876.00				
	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	Plate with interlocking + IVE	29350	X 1	4,277.00				
	Safety Interlock	LV429270	X 2	162.00				
	Breaker (LS/I)	Breaker	X 2		LV429795	3,014.00	LV429805	4,200.00
	TOTAL					12,877.00		14,063.00
160A	Motor mechanism (220V AC)	LV429434	X 2	4,876.00				
	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	Plate with interlocking + IVE	29350	X 1	4,277.00				
	Safety Interlock	LV429270	X 2	162.00				
	Breaker (LS/I)	Breaker	X 2		LV430775	4,282.00	LV430785	6,422.00
	TOTAL					14,145.00		16,285.00
250A	Motor mechanism (220V AC)	LV431541	X 2	6,078.00				
	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	Plate with interlocking + IVE	29350	X 1	4,277.00				
	Safety Interlock	LV429270	X 2	162.00				
	Breaker (LS/I)	Breaker	X 2		LV431870	4,904.00	LV431875	7,366.00
	TOTAL					15,969.00		18,431.00
400A	Motor mechanism (220V AC)	LV432641	X 2	11,592.00				
	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	Plate with interlocking + IVE	32610	X 1	5,429.00				
	Safety Interlock	LV432520	X 2	204.00				
	Breaker	Breaker	X 2		LV432693	5,152.00	LV432694	9,772.00
	Spreader (52.5mm) Ph Barriers	Spreader	X 4		LV432490	1,128.00	LV432491	1,408.00
TOTAL					24,053.00		28,953.00	
630A	Motor mechanism (220V AC)	LV432641	X 2	11,592.00				
	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	Plate with interlocking + IVE	32610	X 1	5,429.00				
	Safety Interlock	LV432520	X 2	204.00				
	Breaker	Breaker	X 2		LV432893	8,270.00	LV432894	14,278.00
	Spreader (70mm) Ph Barriers	Spreader	X 4		LV432492	1,448.00	LV432493	1,928.00
TOTAL					27,491.00		33,979.00	
800A	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	IVE electrical interlocking unit	29352	X 1	2,625.00				
	Wiring kit for IVE	54655	X 1	972.00				
	Cable interlocking	33911	X 1	5,471.00				
	Breaker + Motor mechanism (220-240V)	Breaker	X 2		NS08N13F2XCM	19,676.00	NS08N14F2XCM	27,210.00
	TOTAL					29,292.00		36,826.00
1000A	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	IVE electrical interlocking unit	29352	X 1	2,625.00				
	Wiring kit for IVE	54655	X 1	972.00				
	Cable interlocking	33911	X 1	5,471.00				
	Breaker + Motor mechanism (220-240V)	Breaker	X 2		NS10N13F2XCM	25,274.00	NS10N14F2XCM	33,634.00
	TOTAL					34,890.00		43,250.00
1250A	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	IVE electrical interlocking unit	29352	X 1	2,625.00				
	Wiring kit for IVE	54655	X 1	972.00				
	Cable interlocking	33911	X 1	5,471.00				
	Breaker + Motor mechanism (220-240V)	Breaker	X 2		NS12N13F2XCM	30,700.00	NS12N14F2XCM	36,600.00
	TOTAL					40,316.00		46,216.00
1600A	1 OF + 1 SDE auxiliary switches	29450	X 4	548.00				
	IVE electrical interlocking unit	29352	X 1	2,625.00				
	Wiring kit for IVE	54655	X 1	972.00				
	Cable interlocking	33911	X 1	5,471.00				
	Breaker + Motor mechanism (220-240V)	Breaker	X 2		NS16N13F2XCM	33,672.00	NS16N14F2XCM	54,404.00
	TOTAL					43,288.00		64,020.00

Automatic Changeover Controller		Voltage	Reference	Price (RM)	
BA	- Automatic switch from one source to another	220/240V AC	29470	6,880.00	
		380/415V AC	29471	6,880.00	
UA	- Automatic switch from one source to another	220/240V AC	29472	11,444.00	
		- Start-up of generator set	380/415V AC	29473	11,444.00
		- Shedding and reconnection of non-priority circuits			

* For 400A and 630A sizes, please consult our representative pertaining to installation information.

Compact

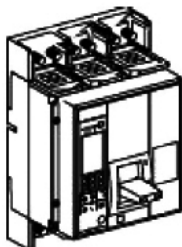
Compact NS

Fixed MCCB (Manual Type) : 800A to 1600A

Pole(s) : 3P/4P

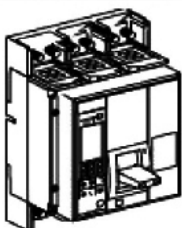
Icu : 50kA - 150kA

Front-connected circuit breaker with Micrologic 2.0 control unit



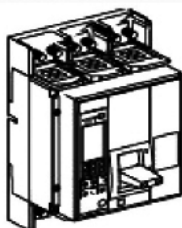
Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	33466	7,431.00	33469	11,362.00
1000A	100%	NS1000N	33472	10,160.00	33475	15,200.00
1250A	100%	NS1250N	33478	13,396.00	33480	16,983.00
Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type L. Icu = 150kA at 220/415 Vac						
800A	100%	NS800L	33468	20,326.00	33471	24,205.00
1000A	100%	NS1000L	33474	31,380.00	33477	35,296.00

Fixed front connected Micrologic 2.0E



Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	34404	8,385.00	34406	12,280.00
1000A	100%	NS1000N	34408	11,499.00	34410	15,573.00
1250A	100%	NS1250N	34412	14,658.00	34414	18,488.00

Fixed front connected Micrologic 5.0E







Rating	Ics (%of Icu)	Model	3P 3d	Price (RM)	4P 3d	Price (RM)
Compact NS type N. Icu = 50kA at 220/415 Vac						
800A	100%	NS800N	34424	8,674.00	34426	12,696.00
1000A	100%	NS1000N	34428	11,892.00	34430	17,086.00
1250A	100%	NS1250N	34432	15,209.00	34434	19,121.00

(*) Please consult our **CustomerCareCentre** for pricing information : 1-800-880-877 (Toll Free) for the items below.

- Front-connected circuit breaker with Micrologic 5.0 control unit.
- Front-connected circuit breaker with Micrologic 6.0E control unit.
- Front-connected circuit breaker with Micrologic 2.0E control unit.
- Front-connected circuit breaker with Micrologic 5.0E control unit.
- Front-connected circuit breaker with motorised operation.

(*) For electrical operated version, please consult CustomerCareCenter for Ics rating.

Connection accessories		Front connection		Rear connection	
Bare-cable connectors + 1 connector shield for 4 cables (240mm²)					
	3P (3 parts)	33640	2,745.00		-
	4P (4 parts)	33641	2,901.00		-
1 long connection shield					
	3P	33628	396.00		-
	4P	33629	452.00		-
Interphase barriers					
	3P/4P top (3 parts)	33646	171.00	33648	360.00
	3P/4P bottom (3 parts)	33646	171.00	33648	360.00
Arc chute screen					
	3P	33596	276.00		-
	4P	33597	359.00		-

Electrical auxiliaries

OF, ON/OFF indication contacts



OF, ON/OFF indication contacts	6A - 240V	29450	176.00
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Up to 3 OF, 1 SD and 1 SDE can be connected (the SDE contact is standard for electrically operated devices).

Instantaneous voltage releases



Voltage	MX/SHT	Price (RM)	MN/UVR	Price (RM)	MN Delay unit Rr (adjustable)	Price (RM)
24-30V DC, 24V AC	33659	710.00	33668	710.00		
100-130V AC/DC	33661	710.00	33670	710.00		
200-250V AC/DC	33662	710.00	33671	710.00	33682	1,853.00
380-480V AC	33664	710.00	33673	710.00		

(1) Except 33680 is 48/609V AC/DC

Locking for manually operated devices

Removable toggle locking system



Locking by 3 padlocks	44936	106.00
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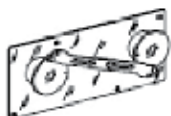
Rotary handle for manually operated devices

Devices with direct rotary handles



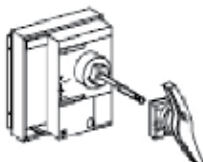
Handle and front	Black handle and black front	33863	648.00
		Ronis	
Locking by keylocks	OFF position	33870	352.00
	OFF and ON positions	33872	423.00
Keylock kit (without keylocks)		33868	112.00

Mechanical interlocking



For 2 devices with extended rotary handles	33890	1,062.00
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Devices with extended rotary handles



Handle and front	Black handle and black front	33878	1,109.00
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Moulded Case Circuit Breaker Compact NSX and Compact NS

Compact NSX DC

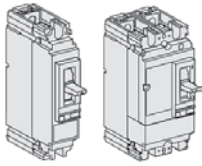
NSX DC 1-Pole and 2-Pole	16-1
NSX DC 3-Pole and 4-Pole, 36kA	16-2
NSX DC 3-Pole and 4-Pole, 100kA	16-3
NSX DC Accessories	16-4

Compact

NSX DC

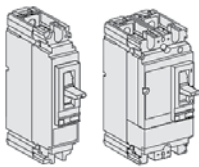
1-pole and 2-pole

1p / 2p 36kA 250/500Vdc



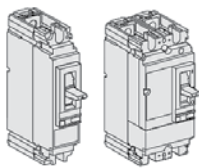
Rating	Ics (% of Icu)	Model	1P 1d	Price (RM)	2P 2d	Price (RM)
Thermal magnetic trip unit			250Vdc / 1-pole		500Vdc / 2-pole	
16A	100%	NSX100F DC	LV438562	592.00	LV438592	757.00
20A	100%	NSX100F DC	LV438563	592.00	LV438593	757.00
25A	100%	NSX100F DC	LV438564	592.00	LV438594	757.00
32A	100%	NSX100F DC	LV438565	592.00	LV438595	757.00
40A	100%	NSX100F DC	LV438566	592.00	LV438596	757.00
50A	100%	NSX100F DC	LV438567	592.00	LV438597	757.00
63A	100%	NSX100F DC	LV438568	592.00	LV438598	757.00
80A	100%	NSX100F DC	LV438569	592.00	LV438599	757.00
100A	100%	NSX100F DC	LV438570	592.00	LV438600	757.00
125A	100%	NSX160F DC	LV438669	825.00	LV438699	1074.00
160A	100%	NSX160F DC	LV438670	825.00	LV438700	1074.00

1p / 2p 50kA 250/500Vdc



Rating	Ics (% of Icu)	Model	1P 1d	Price (RM)
Thermal magnetic trip unit			250Vdc / 1-pole	
16A	100%	NSX100N DC	LV438572	657.00
20A	100%	NSX100N DC	LV438573	657.00
25A	100%	NSX100N DC	LV438574	657.00
32A	100%	NSX100N DC	LV438575	657.00
40A	100%	NSX100N DC	LV438576	657.00
50A	100%	NSX100N DC	LV438577	657.00
63A	100%	NSX100N DC	LV438578	657.00
80A	100%	NSX100N DC	LV438579	657.00
100A	100%	NSX100N DC	LV438580	657.00
125A	100%	NSX160N DC	LV438679	930.00
160A	100%	NSX160N DC	LV438680	930.00

1p / 2p 85kA 250/500Vdc



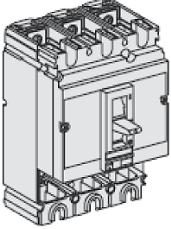
Rating	Ics (% of Icu)	Model	1P 1d	Price (RM)	2P 2d	Price (RM)
Thermal magnetic trip unit			250Vdc / 1-pole		500Vdc / 2-pole	
16A	100%	NSX100M DC	LV438582	751.00	LV438602	1209.00
20A	100%	NSX100M DC	LV438583	751.00	LV438603	1209.00
25A	100%	NSX100M DC	LV438584	751.00	LV438604	1209.00
32A	100%	NSX100M DC	LV438585	751.00	LV438605	1209.00
40A	100%	NSX100M DC	LV438586	751.00	LV438606	1209.00
50A	100%	NSX100M DC	LV438587	751.00	LV438607	1209.00
63A	100%	NSX100M DC	LV438588	751.00	LV438608	1209.00
80A	100%	NSX100M DC	LV438589	751.00	LV438609	1209.00
100A	100%	NSX100M DC	LV438590	751.00	LV438610	1209.00
125A	100%	NSX160M DC	LV438689	1015.00	LV438709	1599.00
160A	100%	NSX160M DC	LV438690	1015.00	LV438710	1599.00

Compact

NSX DC

3-pole and 4-pole
36kA

NSX DC with thermal magnetic trip unit



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 4d	Price (RM)
Icu = 36kA			3P 3d		4P 4d	
16A	100%	NSX100F DC	LV438003 + LV429037	1699.00	LV438008 + LV429057	1866.00
25A	100%	NSX100F DC	LV438003 + LV429036	1699.00	LV438008 + LV429056	1866.00
32A	100%	NSX100F DC	LV438003 + LV429035	1699.00	LV438008 + LV429055	1866.00
40A	100%	NSX100F DC	LV438003 + LV429034	1699.00	LV438008 + LV429054	1866.00
50A	100%	NSX100F DC	LV438003 + LV429033	1699.00	LV438008 + LV429053	1866.00
63A	100%	NSX100F DC	LV438003 + LV429032	1699.00	LV438008 + LV429052	1866.00
80A	100%	NSX100F DC	LV438003 + LV438029	1699.00	LV438008 + LV438049	1866.00
100A	100%	NSX100F DC	LV438003 + LV438028	1699.00	LV438008 + LV438048	1866.00
125A	100%	NSX160F DC	LV438103 + LV438136	2034.00	LV438108 + LV438146	2664.00
160A	100%	NSX160F DC	LV438103 + LV438135	2034.00	LV438108 + LV438145	2664.00
200A	100%	NSX250F DC	LV438203 + LV438246	2455.00	LV438208 + LV438256	2991.00
250A	100%	NSX250F DC	LV438203 + LV438245	2455.00	LV438208 + LV438255	2991.00

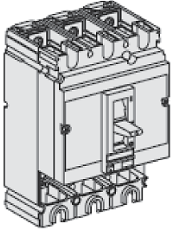
Icu = 36kA			3P 3d		4P 4d	
Type G (lower magnetic trip for long cables)						
16A	100%	NSX100F DC	LV438003 + LV429155	2114.00	LV438008 + LV429165	2462.00
25A	100%	NSX100F DC	LV438003 + LV429154	2114.00	LV438008 + LV429164	2462.00
40A	100%	NSX100F DC	LV438003 + LV429153	2114.00	LV438008 + LV429163	2462.00
63A	100%	NSX100F DC	LV438003 + LV429152	2114.00	LV438008 + LV429162	2462.00

Compact

NSX DC

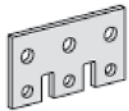
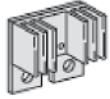
3-pole and 4-pole
100kA

NSX DC with thermal magnetic trip unit



Rating	Ics (% of Icu)	Model	3P 3d	Price (RM)	4P 4d	Price (RM)
Thermal Magnetic Trip Unit						
16A	100%	NSX100S DC	LV438018 + LV429037	2061.00	LV438019 + LV429057	3024.00
25A	100%	NSX100S DC	LV438018 + LV429036	2061.00	LV438019 + LV429056	3024.00
32A	100%	NSX100S DC	LV438018 + LV429035	2061.00	LV438019 + LV429055	3024.00
40A	100%	NSX100S DC	LV438018 + LV429034	2061.00	LV438019 + LV429054	3024.00
50A	100%	NSX100S DC	LV438018 + LV429033	2061.00	LV438019 + LV429053	3024.00
63A	100%	NSX100S DC	LV438018 + LV429032	2061.00	LV438019 + LV429052	3024.00
80A	100%	NSX100S DC	LV438018 + LV438029	2061.00	LV438019 + LV438049	3024.00
100A	100%	NSX100S DC	LV438018 + LV438028	2061.00	LV438019 + LV438048	3024.00
125A	100%	NSX160S DC	LV438118 + LV438136	4074.00	LV438119 + LV438146	4864.00
160A	100%	NSX160S DC	LV438118 + LV438135	4074.00	LV438119 + LV438145	4864.00
200A	100%	NSX250S DC	LV438218 + LV438246	5049.00	LV438219 + LV438256	6818.00
250A	100%	NSX250S DC	LV438218 + LV438245	5049.00	LV438219 + LV438255	6818.00

			3P 3d	4P 3d		
Type G Protection (lower magnetic trip)						
16A	100%	NSX100S DC	LV438018 + LV429155	2476.00	LV438019 + LV429165	3620.00
25A	100%	NSX100S DC	LV438018 + LV429154	2476.00	LV438019 + LV429164	3620.00
40A	100%	NSX100S DC	LV438018 + LV429153	2476.00	LV438019 + LV429163	3620.00
63A	100%	NSX100S DC	LV438018 + LV429152	2476.00	LV438019 + LV429162	3620.00

Accessories for Parallel or Series Connection

Rating		NSX100-250 DC		NSX400-630 DC	
Connection accessories		<i>Price (RM)</i>		<i>Price (RM)</i>	
Connection accessories for parallel or series connection of 2-pole	1 connection plate equipped with heat sink +	LV438328	419.00	LV438338	1303.00
Series connection: 2-pole = 1 connection plate 3-pole = 2 connection plates 4-pole = 3 connection plates	1 interphase barrier				
Parallel connection: 2-pole = 2 connection plates 3-pole = 1 set of 2 connection plates 2 x 2-pole = 4 connection plates					
Connection plates					
Connection plates for parallel connection of 3-pole	1 set of 2 connection plates	LV438329	867.00		
1P short terminal shield	1 pair	LV438320	46.00		
2P short terminal shields	2 pairs	LV438320 x 2	92.00		
3P terminal shields for series connection of poles	1 set	LV438325	410.00	LV438345	683.00
4P terminal shields for series connection of poles	1 set	LV438326	533.00	LV438346	910.00
4P terminal shields for parallel connection of poles	1 set	LV438327	533.00	LV438337	910.00

Air Circuit Breaker

MasterPact NW

MasterPact

NW08 to NW63

ACB without Protection	17-1
ACB with Protection	17-2
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NW Fixed ACB Accessories

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NW Drawout ACB Accessories

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NW General Accessories

Circuit Breaker Locking and Micrologic Control Unit	17-9
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Order form for Masterpact NW/NT	17-10
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Masterpact NT and NW



- 630A to 6300A
- Breaking Capacity upto 150kA
- Fixed, Draw out type
- Solution for 690V and 1000V
- Earthing switch version
- Flexible terminal orientation enables horizontal or vertical alignment changes in the field*
- DC Circuit Breaker version
- Built-in energy metering (2% accuracy class)
- Smart Integration over Communication Network
- Total Discrimination

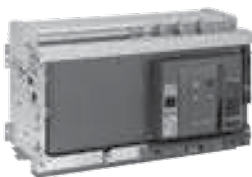
3 sizes



Masterpact NT 630 to 1600A



Masterpact NW 800 to 4000A



Masterpact NW 4000 to 6300A



Micrologic E Micrologic P Micrologic H

L1 150kA	■	■	■		
H2 50kA	■	■	■	■	■
H1 42kA	■	■	■	■	■
	NT 06	NT 08	NT 10	NT 12	NT 16
L1 150kA	■	■	■	■	■
H3 150kA		■	■	■	■
H2 100kA	■	■	■	■	■
H1 65kA	■	■	■	■	■
N1 42kA	■	■	■	■	
	NW08	NW10	NW12	NW16	NW20
					NW25
					NW32
					NW40
H2 150kA	■	■	■		
H1 100kA	■	■	■		
	NW 40b	NW 50	NW 63		

* possible for 4000A and 6300A only VV type

Unprotected versions

Masterpact NW					<i>Price (RM)</i>		<i>Price (RM)</i>	
Type HA	In (A at 40°C)	Icu/Ics (kA @ 220/415V)	Icw (1sec)	Icw (3sec)	Fixed		Drawout	
					3P	4P	3P	4P
NW08	800	65/65 *	65	36	NW08HA3FXXHS	NW08HA4FXXHS	NW08HA3DXXHS	NW08HA4FXXHS
					17,507.00	20,867.00	20,595.00	25,195.00
NW10	1000	65/65 *	65	36	NW10HA3FXXHS	NW10HA4FXXHS	NW10HA3DXXHS	NW10HA4FXXHS
					18,234.00	21,127.00	21,452.00	25,909.00
NW12	1250	65/65 *	65	36	NW12HA3FXXHS	NW12HA4FXXHS	NW12HA3DXXHS	NW12HA4FXXHS
					19,859.00	24,311.00	23,361.00	29,325.00
NW16	1600	65/65 *	65	36	NW16HA3FXXHS	NW16HA4FXXHS	NW16HA3DXXHS	NW16HA4FXXHS
					21,001.00	25,617.00	24,704.00	31,199.00
NW20	2000	65/65 *	65	36	NW20HA3FXXHS	NW20HA4FXXHS	NW20HA3DXXHS	NW20HA4FXXHS
					31,383.00	36,472.00	38,058.00	41,022.00
NW25	2500	65/65 *	65	55	NW25HA3FXXHS	NW25HA4FXXHS	NW25HA3DXXHS	NW25HA4FXXHS
					37,457.00	43,301.00	45,266.00	52,230.00
NW32	3200	65/65 *	65	55	NW32HA3FXXHS	NW32HA4FXXHS	NW32HA3DXXHS	NW32HA4FXXHS
					46,137.00	53,172.00	54,390.00	59,779.00
NW40	4000	65/65 *	65	55	NW40HA3FXXHS	NW40HA4FXXHS	NW40HA3DXXHS	NW40HA4FXXHS
					51,955.00	66,881.00	61,122.00	78,685.00
NW50	5000	85/85 *	85	85	NW50HA3FXXHS	NW50HA4FXXHS	NW50HA3DXXHS	NW50HA4FXXHS
					120,643.00	147,231.00	144,187.00	175,954.00
NW63	6300	85/85 *	85	85	NW63HA3FXXVS	NW63HA4FXXVS	NW63HA3DXXVS	NW63HA4FXXVS
					156,837.00	186,723.00	184,514.00	219,675.00

* Icu/Ics value are refer to the unprotected circuit breaker, tripping by shunt trip as per IEC 60947-2.

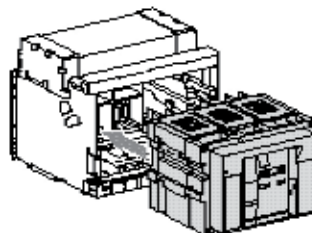
A MasterPact ACB without protection consists of:

- the basic switch-disconnector.
- horizontal connections for both top and bottom.
(NW63 has vertical connection only).
- 4 auxiliary contacts (4 OF).
- 1 opening release 200-250VAC/DC (MX).
- 1 Door Frame Escutcheon.

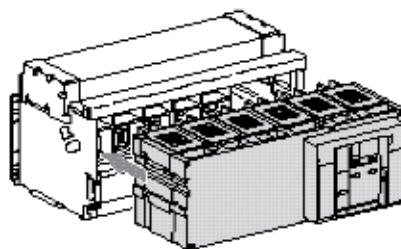
Additional equipped for drawout device

- chassis with safety shutter.
- arc chute cover.
- disconnected position locking (padlocks excluded).

A communication option and various auxiliaries and accessories may also be added.



Basic switch-disconnector < 4000A



Basic switch-disconnector > 4000A

Masterpact NW					Price (RM)		Price (RM)		
Type H1	In (A at 40°C)	Icu/Ics (kA @ 220/415V)		Icw (1sec)	Icw (3sec)	Fixed		Drawout	
						3P	4P	3P	4P
NW08	800	65/65	65	36	NW08H13F2EHS	NW08H14F2EHS	NW08H13D2EHS	NW08H14D2EHS	
					23,421.00	26,738.00	27,556.00	32,256.00	
NW10	1000	65/65	65	36	NW10H13F2EHS	NW10H14F2EHS	NW10H13D2EHS	NW10H14D2EHS	
					24,140.00	26,994.00	29,117.00	32,749.00	
NW12	1250	65/65	65	36	NW12H13F2EHS	NW12H14F2EHS	NW12H13D2EHS	NW12H14D2EHS	
					25,741.00	30,138.00	30,284.00	36,441.00	
NW16	1600	65/65	65	36	NW16H13F2EHS	NW16H14F2EHS	NW16H13D2EHS	NW16H14D2EHS	
					26,869.00	31,426.00	32,776.00	36,971.00	
NW20	2000	65/65	65	36	NW20H13F2EHS	NW20H14F2EHS	NW20H13D2EHS	NW20H14D2EHS	
					37,117.00	42,141.00	44,639.00	51,119.00	
NW25	2500	65/65	65	65	NW25H13F2EHS	NW25H14F2EHS	NW25H13D2EHS	NW25H14D2EHS	
					43,111.00	48,880.00	50,719.00	57,507.00	
NW32	3200	65/65	65	65	NW32H13F2EHS	NW32H14F2EHS	NW32H13D2EHS	NW32H14D2EHS	
					50,645.00	58,622.00	59,582.00	65,893.00	
NW40	4000	65/65	65	65	NW40H13F2EHS	NW40H14F2EHS	NW40H13D2EHS	NW40H14D2EHS	
					57,423.00	78,542.00	67,557.00	94,329.00	
NW50	5000	100/100	100	100	NW50H13F2EHS	NW50H14F2EHS	NW50H13D2EHS	NW50H14D2EHS	
					127,850.00	152,097.00	147,654.00	178,936.00	
NW63	6300	100/100	100	100	NW63H13F2EVS	NW63H14F2EVS	NW63H13D2EVS	NW63H14D2EVS	
					161,698.00	191,588.00	190,234.00	225,397.00	

A Masterpact NW ACB with protection consist of:

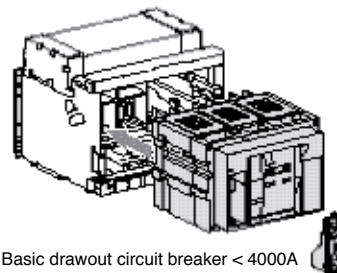
- a basic circuit breaker
- a Micrologic 2.0E control unit
- horizontal connections for both top and bottom (NW63 has vertical connection only)
- 4 auxiliary contacts (4OF)
- 1 trip indication contact (SDE)
- 1 opening release 200-250VAC/DC (MX)
- 1 Door Frame Escutcheon

Additional equipped for drawout breaker

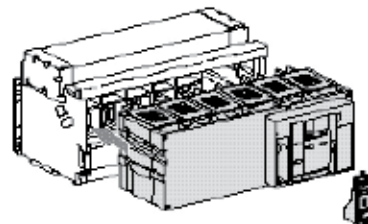
- chassis with safety shutter
- arc chute cover
- disconnected position locking (padlocks excluded)

A communication option and various auxiliaries and accessories may also be added.

* For 100kA & 150kA ACB, kindly contact CCC for pricing information (1-800-880-877)



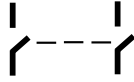
Basic drawout circuit breaker < 4000A



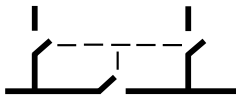
Basic drawout circuit breaker > 4000A

Mechanical Interlock

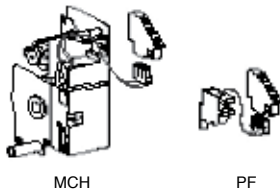
Mechanical interlocking for 2 units of fixed / drawout type ACB	Reference	Price (RM)
By rigid link (vertical mounted)	48612	6,032.00
By flexible link (horizontal or vertical mounted)	47926	2,767.00
Note : Purchase 2 pc x 47926 + 1 pc x 33209	33209	762.00
For 5000A and above, use cable with 6m length Purchase 2 pc x 47926 + 1 pc x 33207	33207	1,992.00



Mechanical interlocking for 3 units of fixed / drawout type ACB	Price (RM)
By flexible link (horizontal or vertical mounted) (2 normal sources + 1 coupler)	48609 10,790.00



Motorised Changeover



MCH

PF



XF, MX, MN

Mechanical Interlock as per above

+ 1 MCH + 1 XF + 1 PF for each ACB

Gear Motor, MCH	Fixed	Price (RM)	Drawout	Price (RM)
200-240 V	48212	5,5642.00	48527	5,642.00

Closing Release, XF

200-250 V AC/DC	47353	1,021.00	48484	823.00
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Changeover Contact, PF

5 A - 240 V	47342	324.00	48469	324.00
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+ 1 MX / 1 MN (choose only one) for each ACB

Opening Release, MX

200-250 V AC/DC	47363	823.00	48494	823.00
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Undervoltage Release, MN

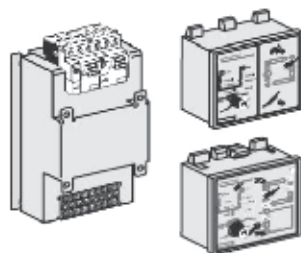
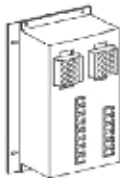
200-250 V AC/DC	47383	823.00	48504	823.00
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Automatic Changeover (Motorised with Controller)

Mechanical Interlock + Motorised Changeover as per above

+ 1 IVE + 1 BA or UA

IVE electrical interlocking	Reference	Price (RM)
For 2 circuit breakers	48 / 415 Vac 29352	3,324.00
Electric interlocking cable	54655	1,383.00
For 3 circuit breakers	48 / 415 Vac *29352	3,324.00
Electric interlocking cable	*54655	1,383.00



BA, Basic Automatic Controller

- Automatic switch from one source to another	220 / 240 Vac 29470	8,708.00
	380 / 415 Vac 29471	8,708.00

UA, Advanced Automatic Controller

- Automatic switch from one source to another	220 / 240 Vac 29472	14,483.00
	380 / 415 Vac 29473	21,298.00

- Start-up of generator set
- Shedding and reconnection of non-priority circuits

* Need to purchase 2 pcs

Micrologic control unit

Price added to protected versions breaker with built-in 2.0E Micrologic control unit

Selective protection (not offered separate without Protected ACB) Price (RM)

Micrologic 5.0E

-Long time, short time and instantaneous protection	<u>5,143.00</u>
-Energy meter	

Micrologic 5.0P

-IDMTL long time, short time and instantaneous protection	<u>12,483.00</u>
-Measurement: V, A, W, VAR, VA, Wh, VARh, Vah, Hz	
-Alarms and other protection:	
* Current imbalance, maximum demand current	
* Voltage imbalance, minimum and maximum voltage	
* Reverse power protection	
* Minimum and maximum frequency	
* Phase sequence	

Micrologic 5.0H

-Micrologic 5.0P with measurement and calculation	<u>19,841.00</u>
* Phase by phase measurement of: power, energy, power factor	
* Calculation of: current and voltage THD	

Selective protection + Earth Fault (not offered separate without Protected ACB)

Micrologic 6.0E

-IDMTL long time, short time and instantaneous protection	<u>7,942.00</u>
-Earth fault	
-Energy meter	

Micrologic 6.0P

-IDMTL long time, short time and instantaneous protection	<u>15,302.00</u>
-Earth Fault	
-Measurement: V, A, W, VAR, VA, Wh, VARh, Vah, Hz	
-Alarms and other protection:	
* Current imbalance, maximum demand current	
* Voltage imbalance, minimum and maximum voltage	
* Reverse power protection	
* Minimum and maximum frequency	
* Phase sequence	

Micrologic 6.0H

-Micrologic 6.0P with measurement and calculation	<u>22,576.00</u>
* Phase by phase measurement of: power, energy, power factor	
* Calculation of: current and voltage THD	

NW Fixed ACB Accessories

Indication Contacts, Remote ON/OFF and Remote Tripping

Indication contacts

ON/OFF indication contacts (OF) Price (RM)



Block of 4 changeover contacts (6A - 240V)	1 block (standard)
1 additional block of 4 contacts (2 max.)	48198 1,315.00

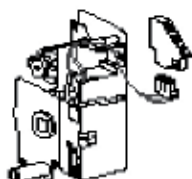
Fault trip indication contacts (SDE) Price (RM)



Changeover contact (5A - 240V)	1 (standard)
1 additional SDE (5A - 240V)	48200 773.00

Remote ON/OFF

Gear motor



	Voltage	MCH	Price (RM)
AC 50/60Hz	100-130V	48211	5,642.00
	200-240V	48212	5,642.00
	380-415V	48214	5,642.00
	440-480V	48215	5,642.00

Instantaneous voltage releases



Standard	Voltage	Closing release		Opening release	
		XF	Price (RM)	MX	Price (RM)
DC	100-130V AC/DC	47352	1,021.00	47362	823.00
AC / DC	200-250V AC/DC	47353	1,021.00	47363	823.00
AC					
Communicating (1)	Voltage	XF com	Price (RM)	MX com	Price (RM)
AC / DC	24-30V DC, 24V AC	47311	1,668.00	47321	2,067.00
	48-60V DC, 48V AC	47312	1,668.00	47322	2,067.00
	100-130V AC/DC	47313	1,668.00	47323	2,067.00
	200-250V AC/DC	47314	1,668.00	47324	2,067.00
	380-480V AC	47316	1,668.00	47326	2,067.00

(1) Used with communication option.

Ready to close contact (1 max.)



1 changeover contact (5A - 240V)	PF	Price (RM)
	47342	324.00

Electrical closing pushbutton



1 pushbutton	BPFE	Price (RM)
Used with XF com is compulsory.	48534	707.00

Remote tripping

Instantaneous voltage release



	Voltage	Undervoltage release			
		2nd MX	Price (RM)	MN	Price (RM)
AC / DC	100-130V AC/DC	47372	1,000.00	47382	823.00
	200-250V AC/DC	47373	1,000.00	47383	823.00

MN delay unit



	Voltage	R (non-adjustable)	Price (RM)	Rr (adjustable)	Price (RM)
DC	100-130V	33684	1,399.00		
	200-250V	33685	1,519.00	33682	1,853.00

Must be used with instantaneous under-voltage releases (MN)

Chassis locking

Disconnected position locking



By padlocks			
VCPO		Standard	
By Ronis keylocks			
		Reference	Price (RM)
Ronis	1 lock with 1 key + adaptation kit	48572	1,221.00
	2 locks 1 key + adaptation kit	48573	1,238.00
	2 locks 2 different keys + adaptation kit	48574	1,238.00

Door interlock (1 part)



Right-hand side of chassis	48579	744.00
Left-hand side of chassis	48580	744.00

Racking interlock



1 part	48582	361.00
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Chassis accessories

Auxiliary terminal shield (CB)



		Reference	Price (RM)
800/4000A	3P	48595	455.00
	4P	48596	700.00
4000b/6300A	3P	48597	730.00
	4P	48598	898.00

Safety shutters + locking block / 1 part

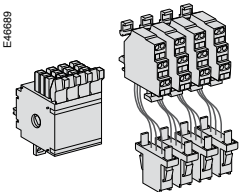
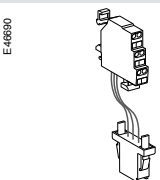
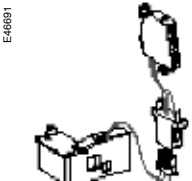
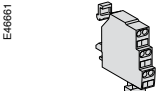


800/4000A	3P	48721	1230.00
	4P	48723	1,928.00
4000b/6300A	3P	48722	1,763.00
	4P	48724	2,854.00

Shutter locking block (for replacement)



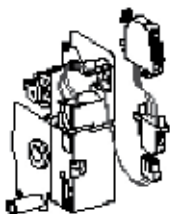
2 parts for 800/4000A	48591	119.00
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Electrical auxiliaries			
ON/OFF indication contacts (OF)			
		Reference	Price (RM)
	Block of 4 changeover contacts (6A - 240V)	1 block (standard)	
	1 additional block of 4 contacts (2 max.)	48468	1,315.00
Combined closed / connected contacts for use with 1 auxiliary contact			
		Reference	Price (RM)
	1 contact 5A - 240V (8 max.)	48477	326.00
Fault trip indication contacts (SDE)			
		Reference	Price (RM)
	Changeover contact (5A - 240V)	1 (standard)	
	1 additional SDE (5A - 240V)	48475	629.00
Carriage switches (connected / disconnected / test position)			
		Reference	Price (RM)
	Changeover contacts (8A - 240V)		
	1 connected position contact (3 max.)	33751	428.00
	1 test position contact (3 max.)	33752	334.00
	1 disconnected position contact (3 max.)	33753	242.00

Remote ON/OFF

Gear motor

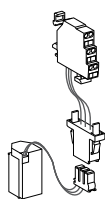
E48692



	Voltage	MCH	Price (RM)
AC 50/60Hz	48V	48522	5,642.00
	100-130V	48526	5,642.00
	200-240V	48527	5,642.00
	380-415V	48529	5,642.00
	440-480V	48530	5,642.00
DC	24-30V	48521	5,642.00
	48-60V	48522	5,642.00
	100-130V	48523	5,642.00

Instantaneous voltage releases

E48693

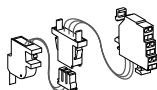


Standard	Voltage	Closing release		Opening release	
		XF	Price (RM)	MX	Price (RM)
DC	100-130V AC/DC	48483	823.00	48493	823.00
AC / DC	200-250V AC/DC	48484	823.00	48494	823.00
Communicating (1)		XF com		MX com	
AC / DC	24-30V DC, 24V AC	48449	2,067.00	48458	2,067.00
	48-60V DC, 48V AC	48450	2,067.00	48459	2,067.00
	100-130V AC/DC	48451	2,067.00	48460	2,067.00
	200-250V AC/DC	48452	2,067.00	48461	2,067.00
AC	380-480V AC	48454	2,067.00	48463	2,067.00

(1) Used with communication option.

Ready to close contact (1 max.)

E48695



	PF	Price (RM)
1 changeover contact (5A - 240V)	48469	324.00

Electrical closing pushbutton

E48677



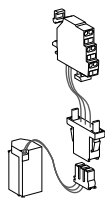
	BPFE	Price (RM)
1 pushbutton	48534	707.00

Used with XF com is compulsory.

Remote tripping

Instantaneous voltage release

E48693



	Voltage	2nd MX		Undervoltage release	
		Price (RM)	MN	Price (RM)	
DC	100-130V AC/DC	48513	823.00	48503	823.00
DC / AC 50/60Hz	200-250V AC/DC	48514	823.00	48504	823.00

MN delay unit

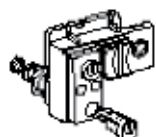


	Voltage	R (non-adjustable)	Rr (adjustable)
DC	100-130V	33684	1,399.00
	200-250V	33685	1,519.00
		33682	1,853.00

Must be used with instantaneous voltage releases (MN).

Circuit breaker locking

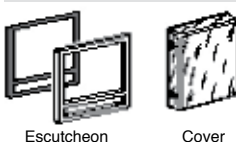
Pushbutton locking device		Reference	Price (RM)
	By padlocks	48536	427.00

OFF position locking

By Ronis keylocks			
Ronis	1 lock with 1 key + adaptation kit	48549	1,146.00
	2 locks 1 key + adaptation kit	48550	2,469.00
	2 locks 2 different keys + adaptation kit	48551	3,617.00

Other circuit breaker accessories

Mechanical operation counter			
	Operation counter CDM	48535	509.00

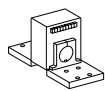
Door Frame (Escutcheon) and accessories

Escutcheon


Cover

	Fixed	Price (RM)	Drawout	Price (RM)
Door Frame (Escutcheon)	48601	700.00	48603	700.00
Transparent cover IP 54			48604	2,507.00


Accessories for Micrologic control units

External sensors			
	External sensor for earth-fault protection (TCE)	Reference	Price (RM)
	Sensor rating	400/2000A	34035 6,154.00
		1000/4000A	34036 4,778.00
		4000/6300A (for NW40b, NW50, NW63)	48182 7,701.00

Long-time rating plug (limits setting range for higher accuracy)

	Standard	0.4 at 1 x Ir	33542 225.00
	Low-setting option	0.4 at 0.8 x Ir	33543 225.00
	High-setting option	0.8 at 1 x Ir	33544 225.00
	Without long-time protection off		33545 225.00

External power supply module

	DC	24-30V	54440 2,924.00
		48-60V	54441 2,924.00
		100-125V	54442 2,924.00
	AC	110-130V	54443 2,924.00
		200-240V	54444 2,924.00
		380-415V	54445 2,924.00

Battery module

1 24V battery	54446	1,305.00
---------------	--------------	----------

Name of customer: _____
 Address for delivery: _____
 Requested delivery date: _____
 Customer order no.: _____

To indicate your choices, check the applicable square boxes
 and enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector		Quantity
MasterPact type	NT <input type="checkbox"/> NW <input type="checkbox"/>	
Rating	A	
Sensor rating	A	
Circuit breaker	N1, H1, H2, H3, L1	
Special circuit breaker	H2 anticorrosion, H10 (NW)	
Switch-disconnector	NA, HA, HF, ES, (HA10 NW)	
Number of poles	3 or 4	

Option: neutral on right side
 Type of equipment
 Fixed
 Drawout with chassis
 Drawout without chassis (moving part only)
 Chassis alone

Earthing switch kit for chassis

Micrologic control unit

A - ammeter	2.0 <input type="checkbox"/> 5.0 <input type="checkbox"/> 6.0 <input type="checkbox"/> 7.0 <input type="checkbox"/>
P - power meter	5.0 <input type="checkbox"/> 6.0 <input type="checkbox"/> 7.0 <input type="checkbox"/>
H - harmonic meter	5.0 <input type="checkbox"/> 6.0 <input type="checkbox"/> 7.0 <input type="checkbox"/>

LR - long-time rating plug
 Standard 0.4 to 1 Ir
 Low setting 0.4 to 0.8 Ir
 High setting 0.8 to 1 Ir
 LR OFF

AD - external power-supply module V

BAT - battery module

TCE - external sensor (CT)

for neutral and residual earth-fault protection

TCE - external sensor (CT) for oversized neutral

(3P - Micrologic P / H) and residual earth-fault protection

TCW - external sensor for SGR protection

Rectangular sensor NT (280 x 115mm)

for earth-leakage protection NW (470 x 160mm)

PTE - external voltage measurement input

Communication

COM module	JBus/ModBus	Device	<input type="checkbox"/>	Chassis	<input type="checkbox"/>
	Digipact	Device	<input type="checkbox"/>	Chassis	<input type="checkbox"/>

Eco COM module Modbus
 (for XF or MX communicating release)

Connection

Horizontal	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>
Vertical	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>
Front	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>

Vertical-connection adapters NT - FC fixed, draw.

Cable-lug adapters NT - FC fixed, draw.

Arc chute screen NT - FC fixed

Interphase barriers NT, NW fixed, draw.

Spreaders NT fixed, drawout

Disconnectable front connection adapter NW fixed

Lugs for 240° or 300° cables NT fixed, draw.

Micrologic control unit functions:

2.0 : basic protection (long time + inst.)

5.0 : selective protection (long time + short time + inst.)

6.0 : selective + earth-fault protection

(long time + short time + inst. + earth-fault)

7.0 : selective + earth-leakage protection

(long time + short time + inst. + earth-leakage)

Indication contacts

OF - ON/OFF indication contacts

Standard	4 OF 6A-240V AC (10A-240V AC and low-level for NW)		
Alternate	1 OF low-level for NT	Max. 4	qty <input type="checkbox"/>
Additional	1 block of 4 OF for NW	Max. 2	qty <input type="checkbox"/>

EF - combined "connected/closed" contacts

	1 EF 6A-240V AC for NW	Max. 8	qty <input type="checkbox"/>
	1 EF low-level for NW	Max. 8	qty <input type="checkbox"/>

SDE - "fault-trip" indication contact

Standard	1 SDE 6A-240V AC		
Additional	1 SDE 6A-240V AC <input type="checkbox"/>	1 SDE Low level <input type="checkbox"/>	

Programmable contacts

	2 M2C contacts <input type="checkbox"/>	6 M6C contacts <input type="checkbox"/>
--	---	---

Carriage switches Low level 6A-240V AC

CE - "connected" position Max. 3 for NW qty

CD - "disconnected" position Max. 3 for NW, 2 for NT qty

CT - "test" position Max. 3 for NW, 1 for NT qty

AC - NW actuator for 6 CE - 3 CD - 0 CT additional carriage switches qty

Remote operation

Remote ON/OFF **MCH** - gear motor V

XF - closing voltage release V

MX - opening voltage release V

PF - "ready to close" contact Low level

6 A-240V AC

BPFE - electrical closing pushbutton

Res - electrical reset option V

RAR - automatic reset option

Remote tripping **MN** - undervoltage release V

R - delay unit (non-adjustable)

Rr - adjustable delay unit

2eme MX - shunt release V

Locking

VBP - ON/OFF pushbutton locking (by transparent cover + padlocks)

OFF position locking:

VCPO - by padlocks

VSPO - by key locks Key lock kit (w/o key lock) Profalux Ronis

1 key lock Profalux Ronis

2 identical key locks, 1 key Profalux Ronis

2 key locks, different keys (NW) Profalux Ronis

Chassis locking in "disconnected" position:

VSPD - by key locks Key lock kit (w/o key lock) Profalux Ronis

Kirk Castell

1 key lock Profalux Ronis

2 identical key locks, 1 key Profalux Ronis

2 key locks, different keys Profalux Ronis

Optional connected/disconnected/test position lock

VPEC - door interlock On right-hand side of chassis

On left-hand side of chassis

VPOC - racking interlock

IPA - cable-type door interlock

VDC - mismatch protection

VIVC - shutter position indication and locking for NW

IBPO - racking interlock between crank and OFF pushbutton for NW

DAE - automatic spring discharge before breaker removal for NW

Accessories

VO - safety shutters on chassis for NT and NW X

CDM - mechanical operation counter NT, NW

CB - auxiliary terminal shield for chassis NT, NW

CC - arc chute cover for fixed NT

CDP - escutcheon NT, NW

CP - transparent cover for escutcheon NT, NW

OP - blanking plate for escutcheon NT, NW

Brackets for mounting NW fixed On backplates

Test kits Mini test kit Portable test kit

All adaptation Air Circuit Breakers are using discount code of 12



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