



**In House
Production**

**Same Day
Dispatch**

Europa
components

2017 Catalogue

Smart Solutions,
Switched On Service



**Dedicated
Support**



**Large Stock
Holdings**



Introduction

Welcome to our 2017 Catalogue.

The year ahead is likely to hold a number of challenges and opportunities as the UK begins its journey of separating itself from the EU. In these uncertain times, you can rely on Europa to continue supplying quality products and solutions underpinned by our technical services and same day dispatch commitment. We genuinely want your business to grow, so the products and services we offer are designed to make your lives as easy as possible. Whilst we have slightly increased our minimum order values, these are still amongst the lowest in the industry (£25 and £125 for carriage paid) so you only order what you need. With our large stock holding and same day dispatch on standard products, you only need to order when you need it, putting you in control of your stock holding.

We've increased resources in our sales and technical teams, with dedicated sales staff looking after you and a dedicated technical team manning the phone lines and our new technical support email account. In the last year we have quadrupled our production and assembly area, where we make solutions which save on installation time. We can also assemble customised solutions, our technical support team will talk through your requirements and get a sample out for you to approve. We are here to help, so please give us a call.

The catalogue is full of new products, arranged in an easy to locate order with a colour coded contents page and a full index. We are here to support you, now and in the future, providing Smart Solutions, Switched on Service

Best Regards
Sonia Freed MD



Services and Solutions



Europa Components Technical Help - 01582 692 444

Our technical helpline is manned by a team of expert engineers and provides the wholesaler and end user with an invaluable resource for correct selection, installation and operation of the Europa range of products.

We also offer product training at our Luton facility in comfortable conference rooms. We can cater for small or large groups and training is tailored to suit the specific requirements of the group.

New for 2017 is a dedicated technical email address technical@europacomponents.com for sending enquiries and supporting information such as images and specification sheets.

Europa Components in House Production -

Take advantage of:

- Unique bespoke solutions
- Speedy response
- Help with urgent on site requirements
- Adapting standard products to suit specific applications
- Technical support available for you and your customer

Europa's in-house production department provides the expertise and flexibility to deliver specific and tailored solutions including Fully Loaded Consumer Units, the Safe Switch range and much more.

The facility (with over 6,000 square feet of working space) allows us to respond swiftly to your customers special requirements.

We can supply low quantities or batches of bespoke products or adapt current product designs to meet your customers individual and unique specifications.

All products are backed with support from our technical department - call direct on **01582 692 444** to discuss your requirements or email: technical@europacomponents.com



Europa Components Marketing Support -

At Europa Components we are dedicated to supporting you in every way we can, striving to offer you the highest levels of service, delivery, technical support and quality products.

Key support is also available from our marketing department with the focus on helping you generate sales.

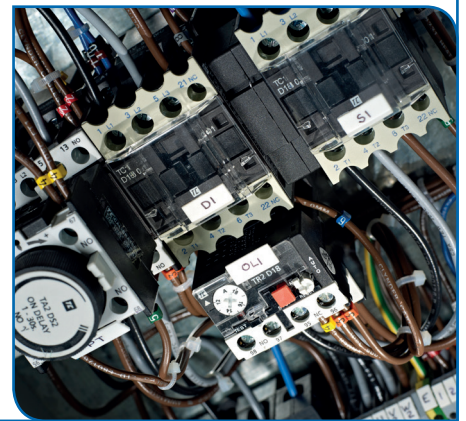
A variety of services and solutions are available to support you including:

- **Hi-resolution images** for promotional use (and images for your website)
- Bespoke **dual branded** posters and flyers
- **P.O.S display solutions**
- **Promotional materials**
- Europa open days - **product awareness** and **training sessions** for your staff
- Support with your **awareness days** and **trade shows**



Our website also provides videos, technical data, easy access to all of our social media channels and secure online ordering. We constantly review and improve our website and welcome your feedback to ensure we deliver the best user experience possible.

Contact us to see how we can help: marketing@europacomponents.com



Europa components



Display Pack by Europa Components - Your P.O.S Solution

A comprehensive range of control gear products in high quality resealable clam packaging, making it easy for you to identify the components you need whilst providing better product protection than standard packaging.

Choose from a wide variety of control gear products including direct on line starters, push buttons, selector switches, control stations, contactors, overload relays and much more.

Bespoke profiles are available tailored to your specific requirements, with all products supported by large stock holdings and technical support.



Europa Components Logistics -

As a well-established supplier of electrical components, Europa has ensured the correct mix of stock items are readily available to **dispatch all orders received before 5pm on the same day**. To provide this service, we supplement our Bedfordshire based 30,000 square feet distribution and sales centre by working in partnership with recognised 3rd party logistics and transport companies. This provides a cost effective, flexible and efficient supply chain system. With the ability to hold in excess of 1500 pallets of product, we have the capacity to fulfill our same day dispatch promise.



Delivery

Europa Components Delivery Charter

Europa Components is committed to providing high quality components that meet the needs of our customers in an ever changing, demanding and challenging marketplace. Part of that commitment is not just the product itself, but also the delivery and collection of products.

To ensure that Europa is successful in providing a full 360 degree service, we are continually striving to review, enhance and improve our logistics and delivery capabilities and we recognise the critical nature of on time deliveries for customers.

We strive to partner with reliable, progressive and communicative couriers and logistic specialists that can provide full spectrum services and ensure our commitments to customers are met.

Additionally, **customers wishing to collect direct from Europa can do so at no extra cost.**

We offer the following services:

Minimum Order Value

£25.00 (Nett + Carriage)

Free Of Charge Standard Delivery

£125.00 (Nett) minimum value

Standard Delivery (UK Mainland)

£9.80 Normally 1 – 2 days delivery

Next Day Pre 10:00 (UK Mainland)

£14.00

Saturday Delivery (UK Mainland)

£17.00 additional charge

Direct to site (alternative address)

As above: No additional charge

Please note the following:

1. Delivery to the Channel Islands, Scottish Islands, Isle of Man, and countries outside of the UK - Pricing on request (Irrespective of order value)
2. Any discrepancies must be notified to Europa within 5 working days of delivery
3. All returns / collections must be as per Europa's returns policy
4. Pallet charges may apply – please contact sales for further details



Returns

Europa Components Returns Criteria

These terms relate to all returns to Europa Components including, but not exclusive to:

Returned goods

- Stock cleanse
- Warranty claims / faulty whilst under warranty
- Items no longer required by customer / special builds
- Delivery error / POD requests

Additional services

- External courier / delivery methods query
- Europa personally delivered product

Please note that Europa will not accept any return at any time without an authorisation number (RMA number) as issued by Europa's customer services, clearly displayed on the external packaging of the item returned. Failure to do so will result in the package(s) being rejected and returned before entering Europa's goods received process.

In order to obtain an RMA number please contact: custserv@europacomponents.com

Stock Cleanse:

Europa Components will only agree and confirm acceptance of a **stock cleanse** upon formal signature of a jointly agreed contract between Europa and the customer. This agreement will be in place for the signed and stated duration only, and will not operate on a rolling, or automatically updating basis. No variations to a stock cleanse agreement can be made without confirmation from a Europa designated signatory. **No stock cleanse will be accepted without a formal signed agreement.**

Warranty Claims:

All warranty claims are as per the quality statement included within section 4 of Europa TOB's.

Warranty exists for a period of 12 months from the date of delivery from Europa to our customer or specified address, not delivery to possible end user by our customer.

Items no longer required (NLR):

In the event that items purchased by the customer are no longer required, Europa will accept returns from the date of delivery up to a **maximum of 3 months** as a "NLR".

Items "NLR" are subject to the RMA process, and will require an RMA authorisation number from Europa prior to return, any goods returned **without this will be rejected** and returned to the sender at their own cost within 5 working days.

Special build or bespoke items that are "no longer required" will incur a minimum 50% sales value re-charge. In the event the item has been dispatched or it falls outside of the 3 month period the **full value** of the original sales order will be invoiced.

Items "NLR" are also subject to the returns compensation criteria listed below.

Returns Compensation Requirements:

Once the above criteria have been met the following general conditions may be utilised as detailed in our standard terms and conditions 4.2 (c):

- A **minimum 25% handling charge** on returned goods based on the original order cost, or:
- A **2 for 1** replacement order based on the value to be returned (Items supplied will be confirmed by Europa)

25% handling charge: Based on original invoiced prices; deducted from any applicable payment within the period; an alternative 40% charge will be levied for items returned which require reboxing/reworking

2 for 1 replacement order: Minimum criteria to qualify is £125 carriage paid; follow up order (If cancelled) will incur a 50% charge of second order placed. The credit will be applied against the replacement order value so will not be issued until the replacement order has been fully invoiced.

Delivery Error / POD:

All delivery errors must be notified in writing (Not verbally) to Europa customer services **within 5 working days**, otherwise the discrepancy is classed as rejected.

In the event that an item is delivered to the incorrect location, is the wrong item etc, Europa will arrange collection/disposal of the goods at its own expense.

POD requests are classed as information update/service updates and as such **do not** form part of a return reason for invoice query or withholding of payment.

Terms Statement:

The customer agrees that by placing an order with Europa they acknowledge and fully accept our above returns criteria and will not deviate from these without written consent from a Europa Board Director.

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Switchgear
Enclosed Door Interlocked Switch-Disconnectors

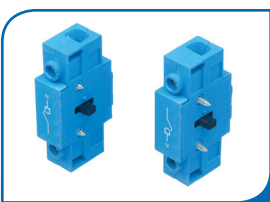
3 Pole Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-3
20mm cable entries up to 40A / 25mm on 63 & 80A
Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C
Padlockable in the OFF position for added security (For up to 3 padlocks)
All switch ratings at AC-21 - See page 14 for technical data

Part Number	Description	Price	Per
LB323P	32A 3 Pole (Insulated Enclosure)	£18.19	1
LB403P	40A 3 Pole (Insulated Enclosure)	£23.84	1
LB633P	63A 3 Pole (Insulated Enclosure)	£27.63	1
LB803P	80A 3 Pole (Insulated Enclosure)	£30.50	1

3 Pole + Sw. Neutral Enclosed Switch-Disconnectors (IP65)



Early Make / Late Break
Neutral Contact
Neutral contacts must be used when switching the neutral

CB, CE, SEMKO
IEC & EN 60947-3
20mm cable entries up to 40A / 25mm on 63 to 125A
Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C
Padlockable in the OFF position for added security (For up to 3 padlocks)
Switch Ratings:
AC-21 20-80A - See page 14 for technical data
AC-22 100 & 125A - See page 15 for technical data



Part Number	Description	Price	Per
LB203PSN	20A 3P Sw. Neutral (Insulated Enclosure)	£17.32	1
LB253PSN	25A 3P Sw. Neutral (Insulated Enclosure)	£20.34	1
LB323PSN	32A 3P Sw. Neutral (Insulated Enclosure)	£22.42	1
LB403PSN	40A 3P Sw. Neutral (Insulated Enclosure)	£28.44	1
LB633PSN	63A 3P Sw. Neutral (Insulated Enclosure)	£32.76	1
LB803PSN	80A 3P Sw. Neutral (Insulated Enclosure)	£36.30	1
LB1003PSN	100A 3P Sw. Neutral (Insulated Enclosure)	£84.58	1
LB1253PSN	125A 3P Sw. Neutral (Insulated Enclosure)	£95.20	1

3 Pole & 3 Pole + Sw. Neutral Switch-Disconnecter Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB323P	125	100	74	118	1 Auxiliary
LB403P					-
LB203PSN					-
LB253PSN					-
LB323PSN	175	125	90	134	2 Auxiliaries *
LB403PSN					1 Auxiliary
LB633P					-
LB803P					-
LB633PSN	280	190	130	190	-
LB803PSN					-
LB1003PSN					-
LB1253PSN	-	-	-	-	-

* 1 either side of the switch

4 Pole Enclosed Switch-Disconnectors (IP65)



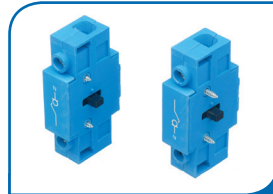
CB, CE, SEMKO
IEC & EN 60947-3
20mm cable entries up to 40A / 25mm on 63 to 125A
Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C
Padlockable in the OFF position for added security (For up to 3 padlocks)
Switch Ratings:
AC-21 20-80A - See page 14 for technical data
AC-22 100 & 125A - See page 15 for technical data

Part Number	Description	Price	Per
LB204P	20A 4 Pole (Insulated Enclosure)	£14.15	1
LB254P	25A 4 Pole (Insulated Enclosure)	£16.61	1
LB324P	32A 4 Pole (Insulated Enclosure)	£18.48	1
LB404P	40A 4 Pole (Insulated Enclosure)	£23.94	1
LB634P	63A 4 Pole (Insulated Enclosure)	£27.06	1
LB804P	80A 4 Pole (Insulated Enclosure)	£30.05	1
LB1004P	100A 4 Pole (Insulated Enclosure)	£69.00	1
LB1254P	125A 4 Pole (Insulated Enclosure)	£82.80	1

4 Pole Enclosed Switch-Disconnecter Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB204P	125	100	74	118	-
LB254P					-
LB324P					-
LB404P	175	125	90	134	1 Auxiliary
LB634P					-
LB804P	280	190	130	190	-
LB1004P					-
LB1254P					-

3 Pole + Sw. Neutral Larger Enclosure Version (IP65)



Early Make / Late Break
Neutral Contact

Neutral contacts
must be used when
switching the neutral

CB, CE, SEMKO

IEC & EN 60947-3

25mm cable entries

Robust resilient polycarbonate enclosure / UV resistant

Enclosure glow wire flammability rating 960°C

Padlockable in the OFF position for added security (For up to 3 padlocks)

All switch ratings at AC-21 - See page 14 for technical data



Part Number	Description	Price	Per
LB253PSNBB	25A 3P Sw. Neutral (Insulated Larger Enclosure)	£26.09	1
LB323PSNBB	32A 3P Sw. Neutral (Insulated Larger Enclosure)	£31.24	1
LB403PSNBB	40A 3P Sw. Neutral (Insulated Larger Enclosure)	£34.67	1

4 Pole Larger Enclosure Version (IP65)



Provides more wiring
space for larger
cables



CB, CE, SEMKO

IEC & EN 60947-3

25mm cable entries

Robust resilient polycarbonate enclosure / UV resistant

Enclosure glow wire flammability rating 960°C

Padlockable in the OFF position for added security (For up to 3 padlocks)

All switch ratings at AC-21 - See page 14 for technical data

Part Number	Description	Price	Per
LB254PBB	25A 4 Pole (Insulated Larger Enclosure)	£22.16	1
LB324PBB	32A 4 pole (Insulated Larger Enclosure)	£26.89	1
LB404PBB	40A 4 Pole (Insulated Larger Enclosure)	£30.69	1

3 Pole + Sw Neutral & 4 Pole Larger Enclosure Version Dimensions (mm)

Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
175	125	90	134	1 Auxiliary

3 Pole Metal Clad Enclosed Switch-Disconnectors (IP54)



CB, CE, SEMKO

IEC & EN 60947-3

Padlockable in the OFF position for added security (For up to 3 padlocks)

Cover: RAL 7035 / Base: RAL 7043

All switch ratings at AC-21 - See page 14 for technical data

Part Number	Description	Price	Per
LB323PSTB	32A 3 Pole (Metal Clad Enclosure)	£35.03	1
LB633PSTB	63A 3 Pole (Metal Clad Enclosure)	£42.79	1
LB803PSTB	80A 3 Pole (Metal Clad Enclosure)	£48.90	1

4 Pole Metal Clad Enclosed Switch-Disconnectors (IP54)



CB, CE, SEMKO

IEC & EN 60947-3

20mm cable entries up to 40A / 25mm on 63 to 125A

Padlockable in the OFF position for added security (For up to 3 padlocks)

Cover: RAL 7035 / Base: RAL 7043

Switch Ratings:

AC-21 20-80A - See page 14 for technical data

AC-22 100 & 125A - See page 15 for technical data

Part Number	Description	Price	Per
LB324PSTB	32A 4 Pole (Metal Clad Enclosure)	£36.70	1
LB634PSTB	63A 4 Pole (Metal Clad Enclosure)	£45.40	1
LB804PSTB	80A 4 Pole (Metal Clad Enclosure)	£51.70	1
LB1004PSTB	100A 4 Pole (Metal Clad Enclosure)	£85.30	1
LB1254PSTB	125A 4 Pole (Metal Clad Enclosure)	£92.00	1

3 Pole & 4 Pole Metal Clad Switch-Disconnecter Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB323PSTB	220	145	90	134	2 Auxiliaries *
LB324PSTB					1 Auxiliary
LB633PSTB					2 Auxiliaries *
LB634PSTB					1 Auxiliary
LB803PSTB					2 Auxiliaries *
LB804PSTB	270	215	125	185	1 Auxiliary
LB1004PSTB					
LB1254PSTB					

* 1 either side of the switch

4 Pole Metal Clad Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-3 / 25mm cable entries
External mounting brackets for easy fixing
Padlockable in the OFF position for added security (For up to 3 padlocks)
Epoxy powder coated steel RAL 7035
All switch ratings at AC-22 - See page 15 for technical data



Part Number	Description	Price	Per
LB324PST	32A 4 Pole (Metal Clad Enclosure)	£69.30	1
LB634PST	63A 4 Pole (Metal Clad Enclosure)	£78.50	1

4 Pole Metal Clad Enclosed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB324PST	173	100	120	164	-
LB634PST	178	178	135	179	1 Auxiliary

4 Pole Stainless Steel Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-3
Grade 304 brushed stainless steel
External mounting brackets for easy fixing
Padlockable in the OFF position for added security (For up to 3 padlocks)
Particularly suitable for pharmaceutical & food preparation areas
All switch ratings at AC-22 - See page 15 for technical data

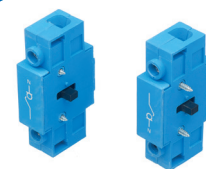


Part Number	Description	Price	Per
LB324PSS	32A 4 Pole (Stainless Steel)	£129.60	1
LB634PSS	63A 4 pole (Stainless Steel)	£159.85	1

4 Pole Stainless Steel Enclosed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB324PSS	173	100	120	164	-
LB634PSS	178	178	135	179	1 Auxiliary

3 Pole + Sw. Neutral Die Cast Enclosed Switch-Disconnectors (IP65)



Early Make / Late Break
Neutral Contact

Neutral contacts must be used when switching the neutral

CB, CE, SEMKO
IEC & EN 60947-3
Robust aluminium die cast enclosure
Padlockable in the OFF position for added security (For up to 3 padlocks)
Cover: RAL 7035 / Base: RAL 7043
All switch ratings at AC-21 - See page 14 for technical data



Part Number	Description	Price	Per
LB323PSNAL	32A 3P Sw. Neutral (Die Cast Enclosure)	£58.91	1
LB633PSNAL	63A 3P Sw. Neutral (Die Cast Enclosure)	£68.10	1

4 Pole Die Cast Enclosed Switch-Disconnectors (IP65)



See page 12 for a range of switch-disconnector accessories

CB, CE, SEMKO
IEC & EN 60947-3
Robust aluminium die cast enclosure
4 x M20 threaded cable entries
Padlockable in the OFF position for added security (For up to 3 padlocks)
Cover: RAL 7035 / Base: RAL 7043
All switch ratings at AC-21 - See page 14 for technical data



Part Number	Description	Price	Per
LB324PAL	32A 4 Pole (Die Cast Enclosure)	£52.20	1
LB634PAL	63A 4 Pole (Die Cast Enclosure)	£59.20	1

3 Pole + Sw. Neutral & 4 Pole Die Cast Enclosed Switch-Disconnectors Dimensions (mm)

Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
152mm	140mm	100mm	144mm	1 Auxiliary

6 Pole Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-1 and 3
25mm cable entries
Padlockable in the OFF position for added security (For up to 3 padlocks)
Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C
All switch ratings at AC-22 - See page 15 for technical data

Part Number	Description	Price	Per
LB256P	25A 6 Pole (Insulated Enclosure)	£49.68	1
LB256P16RM	25A 6 Pole + 1N/O & 1N/C Aux (Insulated Enclosure)	£54.06	1
LB326P	32A 6 Pole (Insulated Enclosure)	£51.76	1
LB326P16RM	32A 6 Pole + 1N/O & 1N/C Aux (Insulated Enclosure)	£56.18	1
LB406P	40A 6 Pole (Insulated Enclosure)	£53.15	1

6 Pole Steel Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-3
Padlockable in the OFF position for added security (For up to 3 padlocks)
Epoxy powder coated steel RAL 7035
Top and bottom gland plate up to LB636PMESB
63A upwards bottom gland plate only
All switch ratings at AC-22 - See page 15 for technical data

Part Number	Description	Price	Per
● LB256P16RMME	25A 6 Pole + 1N/O & 1N/C Aux (Steel Enclosure)	£114.45	1
● LB256PME	25A 6 Pole (Steel Enclosure)	£104.50	1
● LB326P16RMME	32A 6 Pole + 1N/O & 1N/C Aux (Steel Enclosure)	£119.10	1
● LB326PME	32A 6 Pole (Steel Enclosure)	£109.60	1
● LB406PME	40A 6 Pole (Steel Enclosure)	£115.80	1
LB636P	63A 6 Pole (Steel Enclosure)	£119.40	1
● LB636PMESB	63A 6 Pole (Smaller Steel Enclosure)	£119.40	1
LB806P	80A 6 Pole (Steel Enclosure)	£143.15	1
LB1256P	125A 6 Pole (Steel Enclosure)	£163.85	1

6 Pole Enclosed & 6 Pole Steel Enclosed Switch-Disconnector Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB256P	280	190	130	192	2 Auxiliaries *
LB326P					
LB406P					
LB256P16RMME	300	250	150	210	1 Auxiliary
LB256PME					2 Auxiliaries *
LB326P16RMME					1 Auxiliary
LB326PME					2 Auxiliaries *
LB406PME					
LB636PMESB					
LB636P					
LB806P	400	300	200	257	-
LB1256P					

* 1 either side of the switch

8 Pole Enclosed Switch-Disconnectors (IP65)



CB, CE, SEMKO
IEC & EN 60947-3
Padlockable in the OFF position for added security (For up to 3 padlocks)

Insulated Enclosure:
25mm cable entries
Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C

Steel Enclosure:
Epoxy powder coated steel RAL 7035
Bottom gland plate only

All switch ratings at AC-22 - See page 15 for technical data

Part Number	Description	Price	Per
LB258P	25A 8 Pole (Insulated Enclosure)	£51.70	1
LB328P	32A 8 Pole (Insulated Enclosure)	£56.45	1
LB408P	40A 8 Pole (Insulated Enclosure)	£59.00	1
LB638P	63A 8 Pole (Steel Enclosure)	£122.15	1
LB1258P	125A 8 Pole (Steel Enclosure)	£171.50	1

8 Pole Enclosed Switch-Disconnector (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LB258P	280	190	130	190	-
LB328P					
LB408P					
LB638P	400	300	200	260	2 Auxiliaries *
LB1258P					-

* 1 either side of the switch

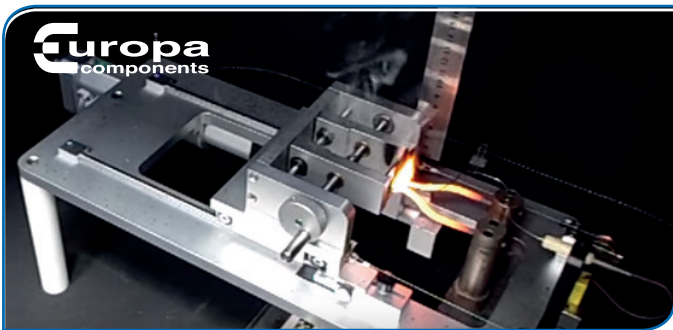
2 Pole Enclosed Changeover Switches (IP65)



Bureau Veritas, Lloyd Registered and CE Certified
 EN 60947-3
 Padlockable in the OFF position for added security (For up to 3 padlocks)
 Manual break before make 3 position switch / centre OFF
All switch ratings AC-21A

Part Number	Description	Price	Per
LBC252P	25A 2 Pole (Insulated Enclosure)	£62.01	1
LBC322P	32A 2 Pole (Insulated Enclosure)	£83.64	1
LBC402P	40A 2 Pole (Insulated Enclosure)	£120.71	1
LBC632P	63A 2 Pole (Insulated Enclosure)	£159.11	1
LBC1002P	100A 2 Pole (Insulated Enclosure)	£241.96	1

2 Pole Changeover Switch (IP65) Dimensions (mm)				
Part Number	Height	Width	Depth	Depth (Inc Handle)
LBC252P	175	151	95	129
LBC322P				
LBC402P				
LBC632P	180	182	137	178
LBC1002P	254	180		



According to BS EN 60695-2-11, the suggested glow wire rating for unattended installation equipment for LV switchgear is 750°C and 850°C.

On all of Europa's insulated enclosed switch-disconnectors, the enclosure has a glow wire rating of 960°C, which far exceeds this requirement.

Scan the QR code to view the full glow wire test video of our polycarbonate switch-disconnector enclosures



4 Pole Enclosed Manual Changeover Switches



CB, CE, SEMKO
 IEC & EN 60947-3
 Padlockable in the OFF position for added security (For up to 3 padlocks)

Insulated Enclosure: (IP65)
 25mm cable entries / Easy access & switch removal
 Robust polycarbonate enclosure / UV resistant
 Enclosure glow wire flammability rating 960°C

Metal Clad Enclosure (STB): (IP54)
 Cover: RAL 7032
 Base: RAL 7043

Steel Enclosure: (IP65)
 Bottom gland plate
 Epoxy powder coated steel
 RAL 7035

Glass Reinforced Polycarbonate Enclosure: (IP66)
 UV Resistant / Enclosure glow wire flammability rating 960°C
 RAL: 7035



Part Number	Description	Price	Per
LBC254P	25A 4 Pole (Insulated Enclosure)	£49.29	1
LBC324P	32A 4 Pole (Insulated Enclosure)	£55.00	1
LBC404P	40A 4 Pole (Insulated Enclosure)	£58.60	1
LBC254PSTB	25A 4 Pole (Metal Clad Enclosure)	£80.70	1
LBC324PSTB	32A 4 Pole (Metal Clad Enclosure)	£83.95	1
LBC404PSTB	40A 4 Pole (Metal Clad Enclosure)	£91.16	1
LBC634PSTB	63A 4 Pole (Metal Clad Enclosure)	£115.51	1
LBC634P	63A 4 Pole (Steel Enclosure)	£159.68	1
LBC804P	80A 4 Pole (Steel Enclosure)	£252.17	1
LBC1254P	125A 4 Pole (Steel Enclosure)	£281.18	1
LBC1254PGP	125A 4 Pole (Glass Reinforced Polycarbonate Enclosure)	£362.92	1

NB: All switch ratings at AC-22 - See page 15 for technical data
 Break before make 3 position switch - centre OFF
 4P changeover switches are fitted with 2 early make / late break neutral contacts

4 Pole Changeover Switch Dimensions (mm)					
Part Number	Height	Width	Depth	Depth (Inc Handle)	Additional Aux.
LBC254P	280	190	130	190	-
LBC324P					
LBC404P					
LBC254PSTB	270	215	125	185	2 Auxiliaries *
LBC324PSTB					
LBC404PSTB					
LBC634PSTB					
LBC634P	400	300	200	260	-
LBC804P					
LBC1254P					
LBC1254PGP	500	400	210	270	-

* With extended auxiliaries (LB263ERN) 1 either side of the switch

Firefighter's Switches

Aluminium Enclosed Firefighter's Switches IP65



CE Certified
EN 60947-3

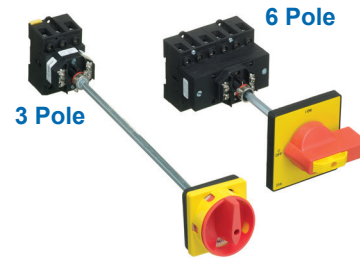
Padlockable in the OFF position for added security (For 1 padlock)
4 x M25 threaded cable entries
1 x M16 threaded entry (Top)
Epoxy powder coated die cast aluminium enclosure
Lid removeable in OFF position only

Part Number	Description	Price	Per
FF403PAL	40A Enclosed 3 Pole + Neutral Firefighter's Switch	£74.73	1
FF403PSNAL	40A Enclosed 3P + Sw. Neutral Firefighter's Switch	£83.48	1

Firefighter's Switch Data		Range	Units	FF403PAL	FF403PSNAL
Rated Operational Voltage Ue	Volts	V		690	
Rated Insulation Voltage Ui	Volts	V		690	
Rated Impulse Withstand Voltage Uimp	Volts	kV		6	
Rated Thermal Current at 40°C	Amps	A		40	
Rated Uninterrupted Current Iu	Amps	A		40	
Pollution Degree	-	-		2	
Rated Operational Current Ie					
IEC & EN	AC-21A	690V	A	40	
	AC-22A	400(415)V	A	40	
	AC-22A	690V	A	32	
	AC-23A	400(415)V	A	25	
	AC-23A	690V	A	17	
Rated Operational Power Pe AC-23A (50Hz)					
IEC & EN	3 Phase	400(415)V	kW	11	
		690V	kW	15	
Short Circuit Capacity (IEC)					
Max Fuse Size (type gG)		Amps	A	32	
Rated Fused Short Circuit Current		Amps	kA	25	
Terminal Specification					
Single / Multiple Strand Wire / Fine Strand			Min-mm ²	2.5	
			Max-mm ²	6	
Recommended Tightening Torque			Nm	1.2	
Height	Width	Depth			
157mm	126mm	69mm			

Door Interlock Switch-Disconnectors

Door Interlock with Metal Shaft



CB, CE, SEMKO

IEC & EN 60947-3

Padlockable in the OFF position for added security (For up to 3 padlocks)

Rear mount or snap on din rail mount (35mm)

Shaft 8mm across flats (hexagonal)

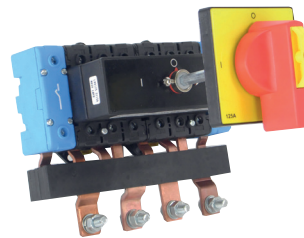
(Length 282mm 3P / 94mm 6P)

All switch ratings at AC-22 - See page 15 for technical data

Part Number	Description	Price	Per
LBDI253P	25A 3 Pole Door Interlocked	£18.07	1
LBDI323P	32A 3 Pole Door Interlocked	£21.65	1
LBDI403P	40A 3 Pole Door Interlocked	£24.03	1
LBDI633P	63A 3 Pole Door Interlocked	£27.73	1
LBDI803P	80A 3 Pole Door Interlocked	£33.77	1
LBDI1003P	100A 3 Pole Door Interlocked	£38.36	1
LBDI1253P	125A 3 Pole Door Interlocked	£44.00	1
LBDI256P	25A 6 Pole Door Interlocked	£41.21	1
LBDI326P	32A 6 Pole Door Interlocked	£45.70	1
LBDI636P	63A 6 Pole Door Interlocked	£50.98	1
LBDI806P	80A 6 Pole Door Interlocked	£74.32	1
LBDI1256P	125A 6 Pole Door Interlocked	£94.64	1

Door Interlock Changeover Switches

Door Interlock Changeover



Europa
components

Break before make
3 position switch - centre OFF
NB: 4P Changeover switches
are fitted with 2 early make / late
break neutral contacts

CB, CE, SEMKO

IEC & EN 60947-3

Rear mount or snap on din rail mount (35mm)

Door interlock (Door opens in OFF position only)

Padlockable in the OFF position for added security (For up to 3 padlocks)

All switch ratings at AC-22 - See page 15 for technical data

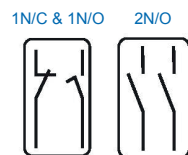
Part Number	Description	Price	Per
LBCDI634P	63A 4 Pole	£59.32	1
LBCDI804P	80A 4 Pole	£98.24	1
LBCDI1254P	125A 4 Pole	£118.58	1

NB: Complete with busbars. Metal shaft length 98mm - shaft 8mm across flats (Hexagonal). A 282mm long shaft is available on request.



Europa stock an **extensive range** of switch-disconnectors for door interlock, rear and front panel mounting, which can be provided either individually or pre-installed into our enclosures. Bespoke enclosure sizes are also available on request.

Volt Free Contact



Volt free contacts rated at
AC-15 6A 230V / 4A 415V
Maximum terminal capacity
1.5mm²



CB, CE, SEMKO

IEC & EN60947-3

Rear mount for door interlocked & enclosed switch-disconnectors

Part Number	Description	Price	Per
LBAC16RM	20-63A Aux Switch 1N/C & 1N/O R/M 6A	£6.10	1
LBAC125RM	80A to 125A Aux switch 1N/C & 1N/O R/M 6A	£6.70	1
LBAC16RM2NO	20-63A Aux Switch 2N/O R/M 6A	£6.10	1
LBAC125RM2NO	80-125A Aux Switch 2N/O R/M 6A	£6.70	1

NB: 1N/O contact early break / late make + 1N/C contact

Main Pole (Rear Mounting)



CB, CE, SEMKO

IEC & EN 60947-3

Main pole for when an additional pole is required

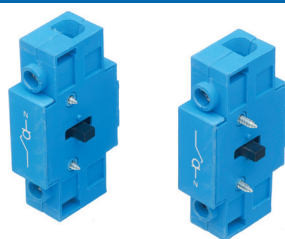
Rear mount for door interlock and enclosed switch-disconnectors

All switch ratings at AC-22

Part Number	Description	Price	Per
LB263MAINPOLE	25A-63A Main Pole R/M 6A	£3.90	1
LB2125MAINPOLE	80-125A Main Pole R/M 6A	£9.36	1

Accessories for Enclosed & Door Interlocked Switch-Disconnectors

Neutral Pole (Early Make Late Break)



N/O



CB, CE, SEMKO

IEC & EN 60947-3

Neutral pole / fully rated

Rear mount for door interlock and enclosed switch-disconnectors

Colour coded in blue for easy identification

All Switch Ratings at AC-22

Part Number	Description	Price	Per
LB263AUXEM	25A-63A Neutral Pole	£3.90	1
LB2125AUXEM	80-125A Neutral Pole	£9.36	1

Extended Auxiliaries



Neutral Contact is early make / late break
volt free contacts rated at
AC-15 6A 230V / 4A 415V
Maximum terminal capacity 1.5mm²



CB, CE, SEMKO

IEC & EN 60947-3

Combined main or neutral pole with volt free contacts (1N/O + 1N/C)

Allows for additional volt free contact to be fitted on a 4 pole switch

(Note the fourth pole or neutral contact (If fitted) must be removed)

All main pole and neutral contacts rated at AC-22 (25-63A)

Part Number	Description	Price	Per
LB263ERMC	20-63A Extended Aux Main Pole + 1N/C & 1N/O Contact R/M 6A	£7.50	1
LB263ERNC	20-63A Extended Aux Neutral Pole + 1N/C & 1N/O Contact R/M 6A	£7.50	1

Panel Mount Switch-disconnector



CB, CE, SEMKO

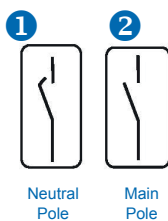
IEC & EN 60947-3

Padlockable in the OFF position for added security (For up to 3 padlocks)

All switch ratings at AC-22 - See page 15 for technical data

Part Number	Description	Price	Per
LBPM253P	25A 3P Panel Mount	£12.73	1
LBPM323P	32A 3P Panel Mount	£13.43	1
LBPM403P	40A 3P Panel Mount	£17.44	1
LBPM633P	63A 3P Panel Mount	£20.24	1
LBPM1003P	100A 3P Panel Mount	£32.90	1

Panel Mount Auxiliaries for Panel Mount Switch-disconnectors



CB, CE, SEMKO

IEC & EN 60947-3

All switch ratings at AC-22



Part Number	Description	Price	Per
1 LB263AUXEMFM	25A-63A Neutral Pole (Early Make Late Break)	£3.55	1
2 LB263MAINFM	25A-63A Main Pole Contact	£3.55	1
3 LB263EFMC	20-63A Extended Aux Main Pole + 1N/O & 1N/C Contact F/M 6A	£7.50	1
3 LB263EFNC	20-63A Extended Aux Neutral Pole + 1N/O & 1N/C Contact F/M 6A	£7.50	1

Rubber Gasket



For use with panel mount & door interlock devices to improve ingress protection rating to IP65 on OEM installations

Part Number	Description	Price	Per
LBGASKET	Gasket Providing IP65 Protection	£1.50	1

Cam Switches

Single Hole Fixing 16A (AC21A / AC1)



UL CSA & CE Certified

IP65 rated (From front)

Operating temp -25°C to +55°C

48 x 48mm bezels / Hole size: 22.5mm

Part Number	Description	Price	Per
TP1661002B19	OFF-ON Switch 2 Pole	£9.86	1
TP1661026B19	1-0-2 Switch 2 Pole	£12.39	1
TP1661004B19	OFF-ON Switch 4 Pole	£15.37	1
TP1661030B19	1-0-2 Switch 6 Pole	£21.96	1

Switch-Disconnecter - Operating Temperatures

Temperature	Derating %	20A	25A	32A	40A	63A	80A	100A	125A
40°C	100%	20A	25A	32A	40A	63A	80A	100A	125A
45°C	95%	19A	24A	30A	38A	60A	76A	95A	119A
50°C	90%	18A	23A	29A	36A	57A	72A	90A	113A
55°C	85%	17A	21A	27A	34A	54A	68A	85A	106A
60°C	80%	16A	20A	26A	32A	50A	64A	80A	100A
65°C	75%	15A	19A	24A	30A	47A	60A	75A	94A
70°C	70%	14A	18A	22A	28A	44A	56A	70A	88A
75°C	65%	13A	16A	21A	26A	41A	52A	65A	81A
80°C	60%	12A	15A	19A	24A	38A	48A	60A	75A

The normal operating temperature range for our switch-disconnectors is from -25°C to +40°C. For ambient temperatures of more than +40°C the switch has to be derated accordingly.

The table above shows the percentage of derating in load for different temperature ranges. The maximum operating temperature of our switches in continuous use is +80°C.

Technical Specifications for Enclosed 3 & 4 Pole Switch-Disconnectors Switches (excluding Stainless Steel 4 Pole Isolator Switches) from page 6 (AC-21)

Certification		CB, CE & SEMKO								
International / European Standard		IEC & EN 60947-1 and 3								
			Switch Current Ratings							
Data	Range	Units	20A	25A	32A	40A	63A	80A		
Rated operational voltage U_e										
IEC & EN	Volts	V	690	690	690	690	690	690	690	
UL	Volts	V	600	600	600	600	600	600	600	
Main switch: Isolating voltage up to		Volts	V	750	750	750	750	750	750	
Rated impulse withstand voltage U _{imp}		Volts	kV	6	6	6	6	6	6	
Rated uninterrupted current I _u		Amps	A	16	20	25	32	40	63	
Rated operational current I_e										
IEC & EN	AC-22A	Up to 690V	A	16	20	25	32	40	63	
	AC-21A	Up to 690V	A	20	25	32	40	63	80	
	AC-1	Up to 690V	A	20	25	32	40	63	80	
Rated operational power AC-23A (50-60Hz)										
IEC & EN	3 Phase	230 (240V)	kW	7.5	7.5	11	15	22	30	
		400 (415V)	kW	11	11	15	18.5	30	37	
		690V	kW	15	15	22	22	45	45	
Rated operational power AC-3 (50-60Hz)										
IEC & EN	3 Phase	230 (240V)	kW	4	5.5	7.5	11	15	22	
		400 (415V)	kW	5.5	7.5	11	11	18.5	22	
		690V	kW	11	11	15	15	30	30	
UL Power Rating										
DOL	3 Phase	120V	hp	1.5	1.5	3	3	5	7.5	
		240V	hp	3	3	7.5	7.5	10	15	
		480V	hp	7.5	7.5	15	20	20	25	
		600V	hp	10	10	20	25	30	30	
	1 Phase	120V	hp	0.5	0.5	1.5	2	3	3	
		240V	hp	1.5	1.5	2	3	5	7.5	
UL Short Circuit Ratings										
Fuse rating, class J		Amps	A	-	-	45	45	70	70	
Fuse rating, class RK5		Amps	A	20	20	-	-	-	-	
Rated Fused short circuit current		Amps	kA	10	10	10	10	10	10	
Short Circuit Capacity (IEC)										
Max fuse size (Type gL)		Amps	A	20	20	32	32	63	63	
Rated Fused short circuit current		Amps	kA	5	5	30	30	30	30	
Terminal Specification										
Single / Multiple strand wire		Min-mm ²		2.5	2.5	2.5	2.5	2.5	2.5	
		Max-mm ²		10	10	10	10	25	25	
Fine strand with sleeve		Min-mm ²		0.75	0.75	0.75	0.75	2.5	2.5	
		Max-mm ²		6	6	6	6	10	10	
American wire gauge		AWG		10	10	10	10	6	6	
Recommended Tightening Torque		Nm		1.7	1.7	1.7	1.7	2.0	2.0	

Technical Specifications for: Enclosed 6 & 8 Pole Switch-Disconnectors / Enclosed 4 Pole Metal / Clad / Enclosed Changeover Switches
Stainless Steel 4 Pole Switch-Disconnectors / Door Interlock and Panel Mount Switch-Disconnectors from page 7 (AC-22)

Certification		CB, CE & SEMKO								
International/European Standard		IEC & EN 60947-1 and 3								
			Switch Current Ratings							
DATA	Range	Units	25A	32A	40A	63A	80A	100A	125A	
Rated operational voltage Ue										
IEC & EN	Volts	V	690	690	690	690	690	690	690	
UL	Volts	V	600	600	600	600	600	600	600	
Main switch: Isolating voltage up to		Volts	V	750	750	750	750	750	750	
Rated impulse withstand voltage Uimp		Volts	kV	6	6	6	6	6	6	
Rated uninterrupted current Iu		Amps	A	25	32	40	63	80	100	125
Rated operational current Ie										
IEC & EN	AC-22A	Up to 690V	A	25	32	40	63	80	100	125
	AC-21A	Up to 690V	A	32	40	63	80	80	100	125
	AC-1	Up to 690V	A	32	40	63	80	80	100	125
Rated operational power AC-23A (50-60Hz)										
IEC & EN	3 Phase	230 (240V)	kW	11	15	22	30	37	45	55
		400 (415V)	kW	15	18.5	30	37	45	55	75
		690V	kW	22	22	45	45	90	90	90
Rated operational power AC-3 (50-60Hz)										
IEC & EN	3 Phase	230 (240V)	kW	7.5	11	15	22	30	37	45
		400 (415V)	kW	11	11	18.5	22	37	45	55
		690V	kW	15	15	30	30	55	55	55
UL Power Rating										
DOL	3 Phase	120V	hp	3	3	5	7.5	7.5	7.5	7.5
		240V	hp	7.5	7.5	10	15	20	20	30
		480V	hp	15	20	20	25	30	30	40
		600V	hp	20	25	30	30	40	40	50
	1 Phase	120V	hp	1.5	2	3	3	3	3	3
		240V	hp	2	3	5	7.5	7.5	7.5	7.5
UL Short Circuit Ratings										
Fuse rating, class J		Amps	A	45	45	70	70	125	125	125
Fuse rating, class RK5		Amps	A	-	-	-	-	-	-	-
Rated Fused short circuit current		Amps	kA	10	10	10	10	10	10	10
Short Circuit Capacity (IEC)										
Max fuse size (Type gL)		Amps	A	32	32	63	63	125	125	125
Rated Fused short circuit current		Amps	kA	30	30	30	30	30	30	30
Terminal Specification										
Single/ Multiple strand wire		Min-mm ²	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
		Max-mm ²	10	10	25	25	50	50	50	50
Fine strand with sleeve		Min-mm ²	0.75	0.75	2.5	2.5	4	4	4	4
		Max-mm ²	6	6	10	10	50	50	50	50
American wire gauge		AWG	10	10	6	6	1	1	1	1
Recommended Tightening Torque		Nm	1.7	1.7	2.0	2.0	2.5	2.5	2.5	2.5

Enclosed Door Interlocked Fused Switches

Enclosed Door Interlocked Fused Switch 32-100A (IP65)



**CE / CB & SEMKO Certified switch-disconnector to EN 60947-3
TUV approved fuse holder to EN60269-1 & HD60269-2**

3 pole + early make / late break neutral switch
Switch handle padlockable in the OFF position for up to 3 padlocks
IP20 protection on incoming terminals
Supplied with fully rated gL fuses (Which can be down rated) (See pages 140-142)
Top and bottom gland plates / **All switch ratings AC-22**

Part Number	Description	Price	Per
FS323PSNME	32A Enclosed 3P + Sw. Neutral Fused Switch	£105.20	1
FS633PSNME	63A Enclosed 3P + Sw. Neutral Fused Switch	£170.98	1
FS803PSNME	80A Enclosed 3P + Sw. Neutral Fused Switch	£177.02	1
FS1003PSNME	100A Enclosed 3P + Sw. Neutral Fused Switch	£207.30	1

3P + Sw. Neutral Fused Switch Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)	Fuse Holder	Terminal Capacity
FS323PSNME	300	250	150	194	10 x 38 (see page 141)	10mm ²
FS633PSNME	500	300	200	244	22 x 58 (see page 143)	35mm ²
FS803PSNME						
FS1003PSNME						

Single Phase Fused Switches

5 Module Metal Clad 100A Fused Switch (IP54)



Use ME house service cut out fuses see page 133
Spare module can be used for MCBs etc



IP54 fused switch rated at 100A 230V (Fuse not inc)
Epoxy powder coated steel RAL 7035
Incoming terminal capacity 2.5 to 25mm²
4 x M20, 2 x 25mm cable entries

Part Number	Description	Price	Per
SPSF100M	H: 240 x W: 160 x D: 100mm	£57.29	1

Photovoltaic

DC 4 Pole Switch-Disconnectors

DC 4 Pole Enclosed Switch-Disconnecter (IP65)



CE / TUV Certified / EN 60947-3

Padlockable in the OFF position for added security (For up to 3 padlocks)
4 x M20 cable entries

Robust polycarbonate enclosure / UV resistant
Enclosure glow wire flammability rating 960°C

Switch rated at 1000V

Part Number	Description	Price	Per
LB164PDC	16A DC 4 Pole	£52.24	1
LB254PDC	25A DC 4 Pole	£56.71	1
LB324PDC	32A DC 4 Pole	£63.44	1

DC 4 Pole Enclosed Switch-Disconnecter Dimensions

Height	Width	Depth	Depth (Inc Switch)
170mm	102mm	80mm	110mm

Metal Clad DC 4 Pole Enclosed Switch-Disconnecter with Fixing Brackets (IP55)



CE Approved / TUV Certified / EN 60947-3

Padlockable in the OFF position for added security (For up to 3 padlocks)
4 + 4 cable entries so two strings can be wired (Max 500V / String)
cable entries suitable for MC4 connectors

Switch rated at 1000V

Epoxy powder coated steel RAL 7035
External mounting brackets for easy fixing
All external fixing brackets & screws are manufactured from Aluminium
Bracket horizontal fixing centres: 130mm

Part Number	Description	Price	Per
LB164PDCSTB	16A DC 4 Pole with Wall Bracket	£59.63	1
LB254PDCSTB	25A DC 4 Pole with Wall Bracket	£68.69	1
LB324PDCSTB	32A DC 4 Pole with Wall Bracket	£75.74	1

Metal Clad DC 4 Pole Enclosed Switch-Disconnecter with Fixing Brackets and MC4 Connectors (IP55)



CE Approved / TUV Certified / EN 60947-3
 Padlockable in the OFF position for added security (For up to 3 padlocks)
 Pre-wired with panel mounted MC4 connectors (Max 500V / String)
 M12 cable entries suitable for MC4 connectors
Switch rated at 1000V
 Epoxy powder coated steel RAL 7035
 External mounting brackets for easy fixing
 All external fixing brackets & screws are manufactured from Aluminium
 Bracket horizontal fixing centres: 130mm

Part Number	Description	Price	Per
LB164PDCSTMC4B	16A DC 4 Pole 4 x MC4 Connectors & Wall Bracket	£60.53	1
LB254PDCSTMC4B	25A DC 4 Pole 4 x MC4 Connectors & Wall Bracket	£69.27	1

Metal Clad DC 4 Pole Enclosed Switch-Disconnecter Dimensions (mm)

Height	Width	Depth	Depth (Inc Switch)
190	115	75	115

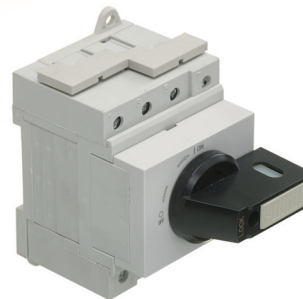
DC 4 Pole Door Interlocked Switch-Disconnecter



CE Approved / TUV Certified / EN 60947-3
 Padlockable in the OFF position for added security (For up to 3 padlocks)
 Rear mount or snap on din rail mount (35mm)
 Complete with 130mm shaft
Switch rated at 1000V

Part Number	Description	Price	Per
LBDI164PDC	16A DC 4 Pole	£40.49	1
LBDI254PDC	25A DC 4 Pole	£62.58	1
LBDI324PDC	32A DC 4 Pole	£70.89	1

DC 4 Pole Din Rail Mount Switch-Disconnecter

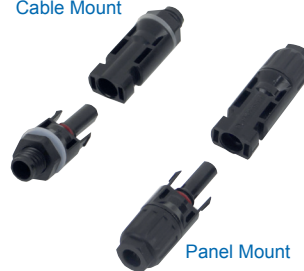


CE Approved / TUV Certified / EN 60947-3
 Padlockable in the OFF position for added security
Switch rated at 1000V

Part Number	Description	Price	Per
LBR254PDC	25A DC 4 Pole	£44.15	1

MC4 Connectors IP65

Cable Mount



Panel Mount



CE / TUV Certified
 Supplied in sets of two (Male and female connectors)
 Panel mount for enclosures
 Cable mount for cable in-line applications
 Cable capacity: 2.5-6mm²
 Rated current: 30A / **Rated voltage: 1000V DC**

Part Number	Description	Price	Per
MC4C	MC4 Cable Mount PV Male & Female Connectors (Pair)	£1.70	1
MC4P	MC4 Panel Mount PV Male & Female Connectors (Pair)	£1.70	1

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Europa
components
Safe Switch

The **Safe Switch Range** is available in **BS88 Switch Fuse** and **Changeover Switch** versions as well as the standard **Switch-Disconnecter** option, all with quick make-break switch action. The range is supplied with a choice of either **IP65** strong steel enclosures, **IP65** brushed grade 304 stainless steel enclosures and also **IP66** glass re-inforced polycarbonate enclosures or simply as **door interlocked switches**.



Safe Switch Range IP65 Metal Enclosed Door Interlocked Switch-Disconnectors 160-1000A

3 Pole + Neutral Link Enclosed Switch-Disconnectors (IP65)



160A with Tunnel Clamp Terminals

Bureau Veritas, KEMA Certified and CE Approved
EN 60947-3
Handle padlockable in the OFF position for up to 3 padlocks
IP20 input & output terminal shrouds (Except 160A)
Top & bottom gland plates / Fully rated neutral link (Where fitted)
Switched neutral contact - early make / late break (Where fitted)
Door interlock with defeat mechanism (For authorised personnel only)
Removable door for easier installation
All AC ratings at 400V (415V)

IP65 Epoxy Coated Steel Enclosure RAL 7035

Part Number	Description	Price	Per
LB1603PNLME	160A (AC-23) Enclosed 3P + Neutral Link	£311.61	1
LB2003PNLME	200A (AC-22) Enclosed 3P + Neutral Link	£369.42	1
LB2503PNLME	250A (AC-22) Enclosed 3P + Neutral Link	£385.30	1
LB3153PNLME	315A (AC-23) Enclosed 3P + Neutral Link	£568.19	1
LB4003PNLME	400A (AC-23) Enclosed 3P + Neutral Link	£644.20	1
LB5003PNLME	500A (AC-23) Enclosed 3P + Neutral Link	£803.47	1
LB6303PNLME	630A (AC-23) Enclosed 3P + Neutral Link	£962.72	1
LB8003PNLME	800A (AC-22) Enclosed 3P + Neutral Link	£1465.53	1
LB10003PNLME	1000A (AC-22) Enclosed 3P + Neutral Link	£1977.67	1

3 Pole + Sw. Neutral Enclosed Switch-Disconnectors (IP65)



200-1000A with Lug Terminals

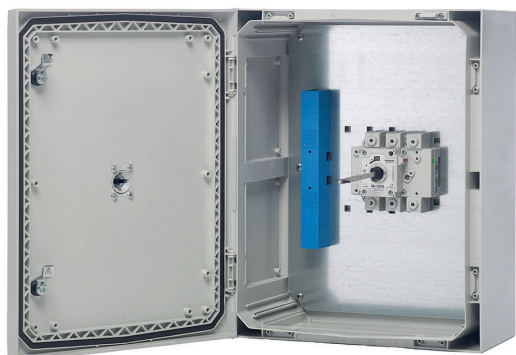
Part Number	Description	Price	Per
LB1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral	£311.61	1
LB2003PSNME	200A (AC-22) Enclosed 3P + Sw. Neutral	£369.42	1
LB2503PSNME	250A (AC-22) Enclosed 3P + Sw. Neutral	£385.30	1
LB3153PSNME	315A (AC-23) Enclosed 3P + Sw. Neutral	£557.67	1
LB4003PSNME	400A (AC-23) Enclosed 3P + Sw. Neutral	£644.20	1
LB5003PSNME	500A (AC-23) Enclosed 3P + Sw. Neutral	£803.47	1
LB6303PSNME	630A (AC-23) Enclosed 3P + Sw. Neutral	£962.72	1
LB8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral	£1465.53	1
LB10003PSNME	1000A (AC-22) Enclosed 3P + Sw. Neutral	£1977.67	1



Please see **page 21** for
all Technical Data relating
to our Safe Switch
Switch-Disconnector Range

IP66 GRPC Enclosed Door Interlocked Switch-Disconnectors 160-500A

3 Pole + Neutral Link Enclosed Switch-Disconnectors (IP66)



Bureau Veritas, KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to three padlocks

IP20 input & output terminal shrouds (Except 160A)

Fully rated neutral link (Where fitted)

Switched neutral contact - early make / late break (Where fitted)

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

All AC ratings at 400V (415V)

160A with Tunnel Terminals / 250-500A with Lug Terminals

Glass Fibre Reinforced Polycarbonate Enclosure: IP66 / IK10

+35°C / IK09 -25°C glow wire flammability rating 960°C

Halogen free / UV resistant to UL 508 / RAL 7035



IP65 Stainless Steel Enclosed Door Interlocked Switch-Disconnectors 160-500A

3 Pole + Neutral Link Enclosed Switch-Disconnectors (IP65)



Bureau Veritas, KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to three padlocks

IP20 input & output terminal shrouds (Except 160A)

Fully rated neutral link (Where fitted)

Switched neutral contact - early make / late break (Where fitted)

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation / **All AC ratings at 400V (415V)**

160A with tunnel terminals / 250-500A with lug terminals

Grade 304 Brushed Stainless Steel Enclosure

Part Number	Description	Price	Per
LB1603PNLSS	160A (AC-23) Enclosed 3P + Neutral Link	£498.06	1
LB2003PNLSS	200A (AC-22) Enclosed 3P + Neutral Link	£535.45	1
LB2503PNLSS	250A (AC-22) Enclosed 3P + Neutral Link	£539.03	1
LB3153PNLSS	315A (AC-23) Enclosed 3P + Neutral Link	£1080.75	1
LB4003PNLSS	400A (AC-23) Enclosed 3P + Neutral Link	£1277.20	1
LB5003PNLSS	500A (AC-23) Enclosed 3P + Neutral Link	£1509.85	1

3 Pole + Sw. Neutral Enclosed Switch-Disconnectors (IP65)

Part Number	Description	Price	Per
LB1603PSNSS	160A (AC-23) Enclosed 3P + Sw. Neutral	£507.50	1
LB2003PSNSS	200A (AC-22) Enclosed 3P + Sw. Neutral	£535.45	1
LB2503PSNSS	250A (AC-22) Enclosed 3P + Sw. Neutral	£539.03	1
LB3153PSNSS	315A (AC-23) Enclosed 3P + Sw. Neutral	£1080.75	1
LB4003PSNSS	400A (AC-23) Enclosed 3P + Sw. Neutral	£1277.20	1
LB5003PSNSS	500A (AC-23) Enclosed 3P + Sw. Neutral	£1509.85	1

Part Number	Description	Price	Per
LB1603PNLGP	160A (AC-23) Enclosed 3P + Neutral Link	£423.37	1
LB2003PNLGP	200A (AC-22) Enclosed 3P + Neutral Link	£462.17	1
LB2503PNLGP	250A (AC-22) Enclosed 3P + Neutral Link	£477.04	1
LB3153PNLGP	315A (AC-23) Enclosed 3P + Neutral Link	£855.80	1
LB4003PNLGP	400A (AC-23) Enclosed 3P + Neutral Link	£955.78	1
LB5003PNLGP	500A (AC-23) Enclosed 3P + Neutral Link	£1081.52	1

3 Pole + Sw. Neutral Enclosed Switch-Disconnectors (IP66)

Part Number	Description	Price	Per
LB1603PSNGP	160A (AC-23) Enclosed 3P + Sw. Neutral	£423.37	1
LB2003PSNGP	200A (AC-22) Enclosed 3P + Sw. Neutral	£462.17	1
LB2503PSNGP	250A (AC-22) Enclosed 3P + Sw. Neutral	£477.04	1
LB3153PSNGP	315A (AC-23) Enclosed 3P + Sw. Neutral	£855.80	1
LB4003PSNGP	400A (AC-23) Enclosed 3P + Sw. Neutral	£955.78	1
LB5003PSNGP	500A (AC-23) Enclosed 3P + Sw. Neutral	£1081.52	1

Technical Specifications for Enclosed & Door Interlocked Safe Switch Switch (pages 19, 20, 22, 23)			Switch Types								
			LB160	LB200	LB250	LB315	LB400	LB500	LB6303	LB800	LB1000
Data	Range	Units	LBD160	LBD200	LBD250	LBD315	LBD400	LBD500	LBD630	LBD800	LBD1000
Rated thermal current at 50°C	Amps	A	160	200	250	315	400	500	630	800	1000
Rated insulation voltage Ui	Volts	V	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated dielectric strength	Volts	kV	4	4	5	5	5	8	8	8	8
Rated impulse voltage Uimp	Volts	kV	8	8	8	8	8	12	12	12	12
Rated operational current Ie at 400V AC-22	Amps	A	160	200	250	315	400	500	630	800	1000
Rated operational current Ie at 400V AC-23	Amps	A	160	160	160	315	400	500	630	630	800
Rated operational power Pe at 400V AC-23	Watts	kW	89	89	89	175	222	277	349	349	443
Rated breaking capacity	Amps	A	1280	1280	1280	2520	3200	4000	5000	5000	6400
Rated making capacity	Amps	A	1600	1600	1600	3150	4000	5000	6300	6300	8000
Rated short circuit making capacity (peak value) Icm	Amps	kA	13	13	13	20	20	26	26	26	60
Rated short-time withstand current (1 sec) rms Icw	Amps	kA	7	7	7	12	12	16	16	16	25
Min. no. of mechanical operations	-	Cycles	30,000	30,000	30,000	20,000	20,000	10,000	10,000	10,000	10,000
Min. no. of electrical operations @ 400V AC-23	-	Cycles	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
Terminal Capacity (rigid copper cable)	-	mm ²	95	120	120	185	240	2x185	2x240	2x240	2x300
Lug bolt size	-	-	-	M10	M10	M10	M10	M10	M10	M10	M14
Maximum size of busbar connection	-	mm	-	5x30	5x30	7x25	7x40	6x40	2x5x40	2x5x40	2x10x50

160-1000A Enclosed Switch-Disconnecter Accessory Selection Table

Part Number (Enclosed)	Input Terminal Shroud Sets	Output Terminal Shroud Sets	Auxiliary Contact 1N/O & 1N/C	Auxiliary Contact 2N/O & 2N/C
3 Pole Switch-Disconnectors XX = either ME / SS / GP				
LB1603PNLXX	With Tunnel Terminals, Shroud Sets Not Required		LBAC010	LBAC020
LB2003PNLXX	LBTS010	LBTS010		
LB2503PNLXX				
LB3153PNLXX	LBTS020	LBTS020		
LB4003PNLXX				
LB5003PNLXX	LBTS040	LBTS040		
LB6303PNLXX				
LB8003PNLXX				
LB10003PNLXX	LBTS160	LBTS160		
3 Pole + Switched Neutral Switch-Disconnectors XX = either ME / SS / GP				
LB1603PSNXX	With Tunnel Terminals, Shroud Sets Not Required		LBAC010	LBAC020
LB2003PSNXX	LBTS010	LBTS010		
LB2503PSNXX				
LB3153PSNXX	LBTS020	LBTS020		
LB4003PSNXX				
LB5003PSNXX	LBTS040	LBTS040		
LB6303PSNXX				
LB8003PSNXX				
LB10003PSNXX	LBTS160	LBTS160		
Enclosure Key: XX = either ME (Metal) / SS (Stainless Steel) / GP (Glass Fibre reinforced Polycarbonate - GRPC)				

Switch-Disconnecter Dimensions (mm) XX = either ME / SS

With Neutral Link	Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
LB1603PNLXX	LB1603PSNXX	500	400	200	245
LB2003PNLXX	LB2003PSNXX				
LB2503PNLXX	LB2503PSNXX				
LB3153PNLXX	LB3153PSNXX	800	600	200	245
LB4003PNLXX	LB4003PSNXX				
LB5003PNLXX	LB5003PSNXX				
LB6303PNLXX	LB6303PSNXX	1000	800	300	360
LB8003PNLXX	LB8003PSNXX				
LB10003PNLXX	LB10003PSNXX				

Switch-Disconnecter Dimensions (mm) GP

With Neutral Link	Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
LB1603PNLGP	LB1603PSNGP	500	400	210	255
LB2003PNLGP	LB2003PSNGP	600	400	210	255
LB2503PNLGP	LB2503PSNGP				
LB3153PNLGP	LB3153PSNGP	800	600	300	345
LB4003PNLGP	LB4003PSNGP				
LB5003PNLGP	LB5003PSNGP				

IP65 Metal Enclosed Door Interlocked Switch Fuses 125-800A

3 Pole + Neutral Link Enclosed BS88 Switch Fuses (IP65)



125A with tunnel terminals
160-800A with tug terminals

KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to 3 padlocks

IP20 input & output terminal shrouds

Fuses fully isolated (Top & bottom) for safe replacement

Fuse covers fitted as standard / **Supplied with fully rated gL/gG fuses**

Switched neutral contact early make / late break (Where fitted)

Fully rated neutral link (where fitted) / Top and bottom gland plates

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

All AC ratings at 400V (415V)

IP65 epoxy coated steel enclosure RAL 7035

Part Number	Description	Price	Per
LBF1253PNLME	125A (AC-23) Enclosed 3P + Neutral Link	£453.95	1
LBF1603PNLME	160A (AC-23) Enclosed 3P + Neutral Link	£579.04	1
LBF2003PNLME	200A (AC-23) Enclosed 3P + Neutral Link	£604.24	1
LBF3153PNLME	315A (AC-23) Enclosed 3P + Neutral Link	£960.82	1
LBF4003PNLME	400A (AC-23) Enclosed 3P + Neutral Link	£1161.40	1
LBF6303PNLME	630A (AC-23) Enclosed 3P + Neutral Link	£1914.99	1
LBF8003PNLME	800A (AC-23) Enclosed 3P + Neutral Link	£2656.53	1

3 Pole + Sw. Neutral Enclosed BS88 Switch Fuses (IP65)

Part Number	Description	Price	Per
LBF1253PSNME	125A (AC-23) Enclosed 3P + Sw. Neutral	£507.46	1
LBF1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral	£665.64	1
LBF2003PSNME	200A (AC-23) Enclosed 3P + Sw. Neutral	£707.89	1
LBF3153PSNME	315A (AC-23) Enclosed 3P + Sw. Neutral	£977.32	1
LBF4003PSNME	400A (AC-23) Enclosed 3P + Sw. Neutral	£1275.76	1
LBF6303PSNME	630A (AC-23) Enclosed 3P + Sw. Neutral	£2205.53	1
LBF8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral	£2907.69	1

IP66 GRPC Enclosed Door Interlocked Switch Fuses 125-400A

3 Pole + Neutral Link Enclosed BS88 Switch Fuses (IP66)



KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to three padlocks

Supplied with fully rated gL/gG fuses

IP20 input & output terminal shrouds

Fully rated neutral link (Where fitted)

Switched neutral contact - early make / late break (Where fitted)

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

125A with tunnel terminals / 160-400A with lug terminals

All AC ratings at 400V (415V)

Glass fibre reinforced polycarbonate enclosure: IP66 / IK10

+35°C / IK09 -25°C glow wire flammability rating 960°C

Halogen free / UV resistant to UL 508 / RAL 7035

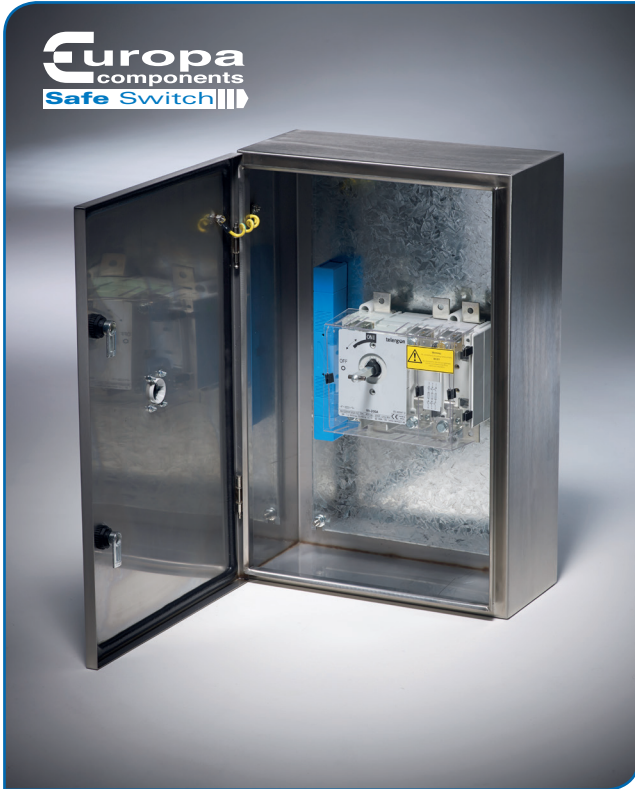
Part Number	Description	Price	Per
LBF1253PNLGP	125A (AC-23) Enclosed 3P + Neutral Link	£559.57	1
LBF1603PNLGP	160A (AC-23) Enclosed 3P + Neutral Link	£760.09	1
LBF2003PNLGP	200A (AC-23) Enclosed 3P + Neutral Link	£777.23	1
LBF3153PNLGP	315A (AC-23) Enclosed 3P + Neutral Link	£1282.56	1
LBF4003PNLGP	400A (AC-23) Enclosed 3P + Neutral Link	£1362.24	1

3 Pole + Sw. Neutral Enclosed BS88 Switch Fuses (IP66)

Part Number	Description	Price	Per
LBF1253PSNGP	125A (AC-23) Enclosed 3P + Sw. Neutral	£615.53	1
LBF1603PSNGP	160A (AC-23) Enclosed 3P + Sw. Neutral	£836.11	1
LBF2003PSNGP	200A (AC-23) Enclosed 3P + Sw. Neutral	£854.95	1
LBF3153PSNGP	315A (AC-23) Enclosed 3P + Sw. Neutral	£1410.81	1
LBF4003PSNGP	400A (AC-23) Enclosed 3P + Sw. Neutral	£1498.46	1

IP65 Stainless Steel Enclosed Door Interlocked Switch Fuses 160-200A

3 Pole + Neutral Link Enclosed BS88 Switch Fuses (IP65)



KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to three padlocks

IP20 input & output terminal shrouds

Fuses fully isolated (Top & bottom) for safe replacement

Fuse covers fitted as standard / **Supplied with fully rated gL/gG fuses**

Switched neutral contact early make / late break (Where fitted)

Fully rated neutral link (Where fitted)

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

All switches with lug terminals

All AC ratings at 400V (415V)

Grade 304 brushed stainless steel enclosure

Part Number	Description	Price	Per
LBF1603PNLSS	160A (AC-23) Enclosed 3P + Neutral Link	£850.62	1
LBF2003PNLSS	200A (AC-23) Enclosed 3P + Neutral Link	£867.12	1

3 Pole + Sw. Neutral Enclosed BS88 Switch Fuses (IP65)

Part Number	Description	Price	Per
LBF1603PSNSS	160A (AC-23) Enclosed 3P + Sw. Neutral	£946.36	1
LBF2003PSNSS	200A (AC-23) Enclosed 3P + Sw. Neutral	£990.70	1

125-800A BS88 Switch Fuse Enclosure Dimensions (mm) XX = either ME / SS

With Neutral Link	Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
BS88 Switch Fuses					
LBF1253PNLXX	LBF1253PSNXX	500	400	200	245
LBF1603PNLXX	LBF1603PSNXX	600	400	200	245
LBF2003PNLXX	LBF2003PSNXX				
LBF3153PNLXX	LBF3153PSNXX	800	600	300	360
LBF4003PNLXX	LBF4003PSNXX				
LBF6303PNLXX	LBF6303PSNXX	1000	800	300	360
LBF8003PNLXX	LBF8003PSNXX				

125-800A BS88 Switch Fuse GP Enclosure Dimensions (mm)

With Neutral Link	Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
BS88 Switch Fuses					
LBF1253PNLGP	LBF1253PSNGP	500	400	210	255
LBF1603PNLGP	LBF1603PSNGP	600	400	210	255
LBF2003PNLGP	LBF2003PSNGP				
LBF3153PNLGP	LBF3153PSNGP	800	600	300	360
LBF4003PNLGP	LBF4003PSNGP				

125-800A BS88 Switch Fuse Accessory Selection Table XX = either ME / SS / GP

Part Number (Enclosed)	Input Terminal Shroud Sets	Output Terminal Shroud Sets	Auxiliary Contact 1N/O & 1N/C	Auxiliary Contact 2N/O & 2N/C
BS88 3 Pole + Neutral Link Switch Fuse				
LBF1253PNLXX	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBF1603PNLXX	LBTS050	LBTS060		
LBF2003PNLXX				
LBF3153PNLXX	LBTS080	LBTS090	LBAC010	LBAC020
LBF4003PNLXX				
LBF6303PNLXX	LBTS110	LBTS120		
LBF8003PNLXX				

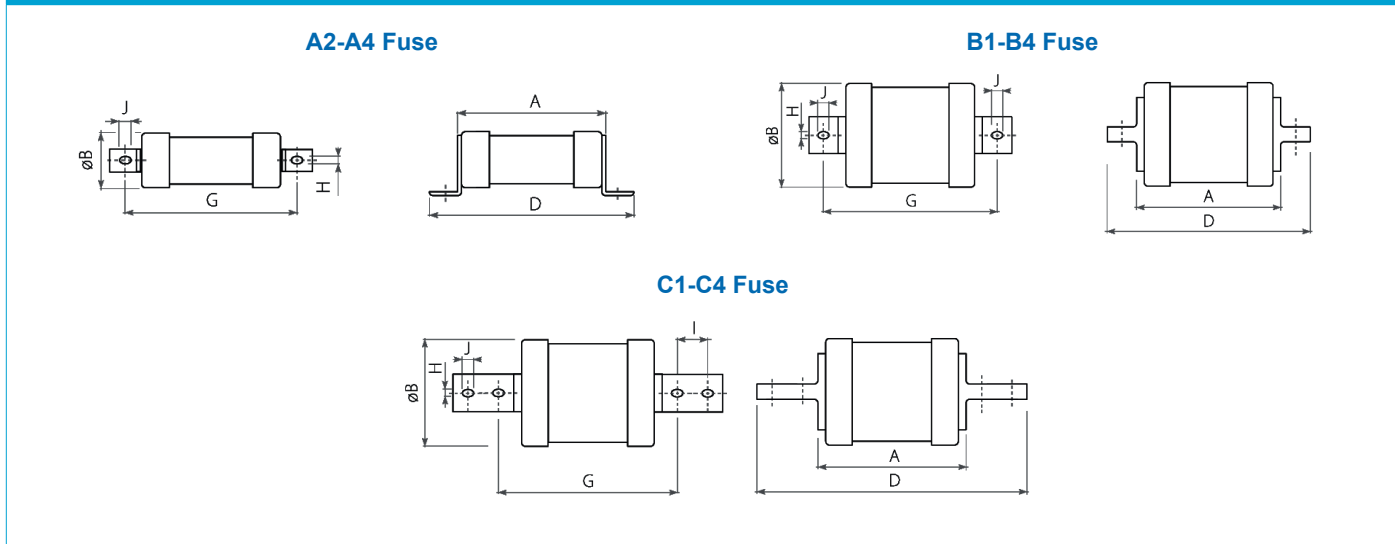
BS88 3 Pole + Switched Neutral Switch Fuse

LBF1253PSNXX	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBF1603PSNXX	LBTS070	LBTS070		
LBF2003PSNXX				
LBF3153PSNXX	LBTS100	LBTS100	LBAC010	LBAC020
LBF4003PSNXX				
LBF6303PSNXX	LBTS130	LBTS130		
LBF8003PSNXX				

Enclosure Key: XX = either ME (Metal) / SS (Stainless Steel) / GP (Glass Fibre reinforced Polycarbonate - GRPC)

Technical Specifications for Enclosed & Door Interlock Safe Switch - Switch Fuses			Switch Types						
			LBF125	LBF160	LBF200	LBF315	LBF400	LBF630	LBF800
Data	Range	Units	Lbfd125	Lbfd160	Lbfd200	Lbfd315	Lbfd400	Lbfd630	Lbfd800P
BS88 Fuse size	-	-	A2-A3	A4	B1-B2	B1-B3	B1-B4	C1-C2	C1-C3
Rated thermal current at 40°C	Amps	A	125	160	200	315	400	630	800
Rated insulation voltage Ui	Volts	V	800	800	800	1000	1000	1000	1000
Rated dielectric strength	Volts	kV	6	6	6	8	8	8	8
Rated impulse voltage Uimp	Volts	kV	8	8	8	12	12	12	12
Rated operational current Ie at 400V AC-22	Amps	A	125	160	200	315	400	630	800
Rated operational current Ie at 400V AC-23	Amps	A	125	160	200	315	400	630	630
Rated operational power Pe at 400V AC-23	Watts	kW	65	90	110	160	220	355	355
Rated breaking capacity	Amps	A	1000	1280	1600	2600	3200	5100	5100
Rated making capacity	Amps	A	1250	1600	2000	3150	4000	6300	6300
Rated short circuit making current (rms) with fuses fitted	Amps	kA	50	80	80	80	80	80	80
Rated short circuit withstand current (rms) with fuses fitted	Amps	kA	80	80	80	80	80	80	80
Minimum number of mechanical operations	-	Cycles	10,000	10,000	10,000	10,000	10,000	5,000	5,000
Minimum number of electrical @ 400V AC-23	-	Cycles	1,500	1,000	1,000	1,000	1,000	1,000	500
Terminal Capacity (rigid copper cable)	-	mm ²	95	120	120	240	240	2x185	2x240
Lug bolt size	-	-	-	M8	M8	M10	M10	M12	4xM8
Maximum size of busbar connection	-	mm	-	5x25	5x25	6x40	6x40	2x7x50	2x7x50

Maximum BS88 Fuse Sizes for LBF Safe Switch Range



Dimensions	A	Ø B	D	G	H	J	I
Fuse	Max	Max	Max	Nom	Nom	Min	Min
A2-A3	58	27	91	73	5.5	7	
A4	70	37	111	94	8,7	9,5	
B1	70	37	138	111	8,7	11	
B2	77	42					
B3							
B4	83	66	212	133	10,3	11	25,4
C1	83	66					
C2	85	77					
C3	89	84				12,5	

125A to 800A Switch Fuse Compatibility Chart

Enclosed Switch Fuse	LBF125	LBF160	LBF200	LBF315	LBF400	LBF630	LBF800
Door Interlocked Switch Fuse	LBFD125	LBFD160	LBFD200	LBFD315	LBFD400	LBFD630	LBFD800
BS88 Fuse Size Range	A3	A4	B1-B2	B1-B3	B1-B4	C1-C2	C1-C3
Maximum Fuse Body Diameter	27	37	42		66	77	84
Fuse Fixing Centres	73	94	111			133/188	
Fuse Type	gL/gG General Line						
	A3 (TIS BAO SB4)	A4 (TCP CEO SD5)	B1 (TBC AC SF4)			C1 (TKM SG7)	
	50-002-01/35A	50-003-01/63A	50-007-01/16A			TKM200	
	50-002-01/40A	50-003-01/80A	50-007-01/20A			50-011-01/250A	
	50-002-01/50A	50-003-01/100A	50-007-01/25A			50-011-01/315A	
	50-002-01/63A	TFP DEO SD6	50-007-01/32A			C1 (TM EF SH8)	
	50-002-01/80A	50-004-01/125A	50-007-01/40A			50-039-01/355A	
	TIS BAO OS OSD SB4	50-004-01/160A	50-007-01/50A			50-039-01/400A	
	TIS80A		50-007-01/63A			C2 (TTM FF SH9)	
	TIS100A		B1 (TC CD SF5)			50-040-01/500A	
	TIS125A		50-008-01/80A			50-040-01/560A	
			50-008-01/100A			50-040-01/630A	
			B2 (TF DD SF6)			C3 (TLM GF SH10)	
			50-009-01/125A			50-041-01/710A	
			50-009-01/160A			50-041-01/800A	
			50-009-01/200A				
			B3 (TKF ED SF7)				
			50-010-01/250A				
			50-010-01/315A				
			B4 (TMF ED SF8)				
			50-110-01/355A				
			50-110-01/400A				
Fuse Type	aM Motor Rated						
	TIA AAO SB2 aM	TCP CEO SD5 aM	TC CD SF5 aM				
	50-001-16/40A	50-003-16/125A	50-008-16/125A				
	50-001-16/50A	50-003-16/160A	50-008-16/160A				
	50-001-16/63A		TF DD SF aM				
	TIS BAO SB4 aM		50-009-16/250A				
	50-002-16/80A		50-009-16/315A				
	50-002-16/100A		TKF ED SF7 aM				
	TIS OS OSD aM		50-010-16/400A				
	TIS100M125						

IP65 Metal Enclosed Door Interlocked Changeover Switches 160-1000A

3 Pole + Sw. Neutral Enclosed Changeover Switches (IP65)



KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to 3 padlocks

IP20 input & output terminal shrouds

Break before make 3 position switch - centre OFF

Switched neutral contact early make / late break

Top & bottom gland plates

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

All switches with lug terminals

All AC switch ratings 400V (415V)

IP65 epoxy coated steel enclosure RAL 7035

Part Number	Description	Price	Per
LBC1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral	£574.06	1
LBC2003PSNME	200A (AC-22) Enclosed 3P + Sw. Neutral	£681.56	1
LBC2503PSNME	250A (AC-22) Enclosed 3P + Sw. Neutral	£788.31	1
LBC3153PSNME	315A (AC-22) Enclosed 3P + Sw. Neutral	£1060.87	1
LBC4003PSNME	400A (AC-22) Enclosed 3P + Sw. Neutral	£1269.39	1
LBC6303PSNME	630A (AC-22) Enclosed 3P + Sw. Neutral	£1715.76	1
LBC8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral	£2177.93	1
LBC10003PSNME	1000A (AC-23) Enclosed 3P + Sw. Neutral	£3342.46	1

listed in
LUCKINslive™

IP66 GRPC Enclosed Door Interlocked Changeover Switches 160-400A

3 Pole + Sw. Neutral Enclosed Changeover Switches (IP66)



KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to three padlocks

IP20 input & output terminal shrouds

Switched neutral contact - early make / late break

Door interlock with defeat mechanism (For authorised personnel only)

Removable door for easier installation

Break before make 3 position switch - centre OFF

All switches with lug terminals

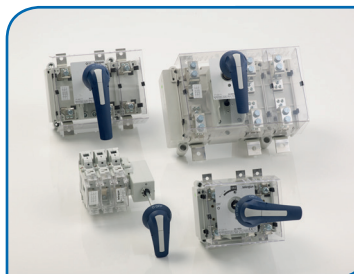
All AC ratings at 400V (415V)

Glass fibre reinforced polycarbonate enclosure: IP66 / IK10

+35°C / IK09 -25°C glow wire flammability rating 960°C

Halogen Free / UV resistant to UL 508 / RAL 7035

Part Number	Description	Price	Per
LBC1603PSNGP	160A (AC-23) Enclosed 3P + Sw. Neutral	£658.21	1
LBC2003PSNGP	200A (AC-22) Enclosed 3P + Sw. Neutral	£786.31	1
LBC2503PSNGP	250A (AC-22) Enclosed 3P + Sw. Neutral	£904.72	1
LBC3153PSNGP	315A (AC-22) Enclosed 3P + Sw. Neutral	£1226.07	1
LBC4003PSNGP	400A (AC-22) Enclosed 3P + Sw. Neutral	£1454.42	1



The full **Safe Switch** range is also available as individual **door interlocked** switches

Technical Specifications for Enclosed & Door Interlock Safe Switch Changeover Switches			Switch Types							
			LBC160	LBC200	LBC250	LBC315	LBC400	LBC630	LBC800	LBC1000
Data	Range	Units	LBCD160	LBCD200	LBCD250	LBCD315	LBCD400	LBCD630	LBCD800	LBCD1000
Rated thermal Ith current at 40°C	Amps	A	160	200	250	315	400	630	800	1000
Rated insulation voltage Ui	Volts	V	1000	1000	1000	1000	1000	1000	1000	1000
Rated dielectric strength	Volts	kV	4	5	5	6	6	8	8	8
Rated impulse voltage Uimp	Volts	kV	8	8	8	8	8	12	12	12
Rated operational current Ie at 400V AC-22	Amps	A	160	200	250	315	400	630	800	1000
Rated operational current Ie at 400V AC-23	Amps	A	160	160	160	200	250	500	630	1000
Rated operational power Pe at 400V AC-23	Watts	kW	89	89	89	100	125	250	315	501
Rated breaking capacity	Amps	A	1280	1280	1280	1600	2000	4000	4000	8000
Rated making capacity	Amps	A	1600	1600	1600	2000	2500	5000	5000	10,000
Rated short circuit making capacity (peak value) Icm	Amps	kA	13	13	13	12	12	20	20	32
Rated short-time withstand current (1 sec) rms Icw	Amps	kA	7	7	7	8	8	13	13	25
Minimum number of mechanical operations	-	Cycles	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Minimum number of electrical operations @ 400V AC-22	-	Cycles	1,000	1,000	1,000	1,000	200	1,000	100	500
Terminal Capacity (rigid copper cable)	-	mm ²	95	120	120	240	240	2x240	2x240	2x300
Lug bolt size	-	-	M10	M10	M10	M10	M10	M12	M12	M14
Maximum size of busbar connection	-	mm	5x25	5x30	5x30	2x5x30	2x5x30	2x6x45	2x6x45	2x10x60

160-1000A Changeover Switch Metal Enclosure Dimensions (mm)				
Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
LBC1603PSNME	600	400	200	260
LBC2003PSNME				
LBC2503PSNME				
LBC3153PSNME	800	600	300	360
LBC4003PSNME				
LBC6303PSNME	1000	800		
LBC8003PSNME				
LBC10003PSNME	1200			

160-400A Changeover Switch GRPC Enclosure Dimensions (mm)				
Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
LBC1603PSNGP	600	400	210	270
LBC2003PSNGP				
LBC2503PSNGP				
LBC3153PSNGP	800	600	300	360
LBC4003PSNGP				

160-1000A Changeover Switch Accessory Selection Table XX = either ME / GP				
Part Number (Enclosed)	Input Terminal Shroud	Output Terminal Shroud	Aux. Contact 1N/O & 1N/C	Aux. Contact 2N/O & 2N/C
LBC1603PSNXX	LBTS010	LBTS010	LBAC030	LBAC040
LBC2003PSNXX				
LBC2503PSNXX				
LBC3153PSNXX	LBTS070	LBTS140	LBAC010	LBAC020
LBC4003PSNXX				
LBC6303PSNXX	LBTS100	LBTS150		
LBC8003PSNXX				
LBC10003PSNXX	LBTS130	LBTS170		

Door Interlocked Switch-Disconnectors 160-1000A



Bureau Veritas, KEMA and CE Certified
EN 60947-3

Supplied with IP65 door handle and shaft / Handle padlockable in the OFF position for up to 3 padlocks

Handle with defeat mechanism (for authorised personnel only) / Neutral switch contact early make / late break (Where fitted)

160A with tunnel terminals / 200-1000A with lug terminals / Terminal shrouds sold separately

All AC ratings 400V (415V)



3 Pole Door Interlocked Switch-Disconnectors

Part Number	Description	Price	Per
LBD1603P	160A (AC-23) Door Interlock 3P Switch-Disconnecter & Handle	£123.10	1
LBD2003P	200A (AC-22) Door Interlock 3P Switch-Disconnecter & Handle	£143.78	1
LBD2503P	250A (AC-22) Door Interlock 3P Switch-Disconnecter & Handle	£157.06	1
LBD3153P	315A (AC-23) Door Interlock 3P Switch-Disconnecter & Handle	£211.96	1
LBD4003P	400A (AC-23) Door Interlock 3P Switch-Disconnecter & Handle	£295.60	1
LBD5003P	500A (AC-23) Door Interlock 3P Switch-Disconnecter & Handle	£326.61	1
LBD6303P	630A (AC-23) Door Interlock 3P Switch-Disconnecter & Handle	£356.98	1
LBD8003P	800A (AC-22) Door Interlock 3P Switch-Disconnecter & Handle	£595.25	1
LBD10003P	1000A (AC-22) Door Interlock 3P Switch-Disconnecter & Handle	£930.10	1

3 Pole + Sw. Neutral Door Interlocked Switch-Disconnectors

Part Number	Description	Price	Per
LBD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral Switch & Handle	£132.38	1
LBD2003PSN	200A (AC-22) Door Interlock 3P + Sw. Neutral Switch & Handle	£154.08	1
LBD2503PSN	250A (AC-22) Door Interlock 3P + Sw. Neutral Switch & Handle	£167.83	1
LBD3153PSN	315A (AC-23) Door Interlock 3P + Sw. Neutral Switch & Handle	£225.68	1
LBD4003PSN	400A (AC-23) Door Interlock 3P + Sw. Neutral Switch & Handle	£313.87	1
LBD5003PSN	500A (AC-23) Door Interlock 3P + Sw. Neutral Switch & Handle	£359.53	1
LBD6303PSN	630A (AC-23) Door Interlock 3P + Sw. Neutral Switch & Handle	£382.99	1
LBD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral Switch & Handle	£631.24	1
LBD10003PSN	1000A (AC-22) Door Interlock 3P + Sw. Neutral Switch & Handle	£1068.65	1

160-1000A Switch-Disconnecter Accessory Selection Table

Part Number (Door Interlock)	Input Terminal Shroud Sets	Output Terminal Shroud Sets	Auxiliary Contact 1N/O & 1N/C	Auxiliary Contact 2N/O & 2N/C
3 Pole Switch-Disconnectors				
LBD1603P	With Tunnel Terminals, Shroud Sets Not Required		LBAC010	LBAC020
LBD2003P	LBTS010	LBTS010		
LBD2503P	LBTS010	LBTS010		
LBD3153P	LBTS020	LBTS020		
LBD4003P	LBTS030	LBTS030		
LBD5003P	LBTS040	LBTS040		
LBD6303P	LBTS040	LBTS040		
LBD8003P	LBTS040	LBTS040		
LBD10003P	LBTS160	LBTS160		
3 Pole + Switched Neutral Switch-Disconnectors				
LBD1603PSN	With Tunnel Terminals, Shroud Sets Not Required		LBAC010	LBAC020
LBD2003PSN	LBTS010	LBTS010		
LBD2503PSN	LBTS010	LBTS010		
LBD3153PSN	LBTS020	LBTS020		
LBD4003PSN	LBTS030	LBTS030		
LBD5003PSN	LBTS040	LBTS040		
LBD6303PSN	LBTS040	LBTS040		
LBD8003PSN	LBTS040	LBTS040		
LBD10003PSN	LBTS160	LBTS160		

Door Interlocked BS88 Switch Fuses 125-800A



KEMA and CE Certified

EN 60947-3

Handle padlockable in the OFF position for up to 3 padlocks / Handle with defeat mechanism (For authorised personnel only)

Fuses fully isolated (Top & bottom) for safe replacement / Fuse covers fitted as standard

NB: Fuses sold separately (Bolted Type)

Neutral switch contact early make / late break (Where fitted) / Supplied with IP65 door handle and shaft

125A with tunnel terminals / 160-800A with lug terminals / Terminal shrouds sold separately / **All AC ratings 400V (415V)**



3 Pole Door Interlocked BS88 Switch Fuses	3 Pole + Sw. Neutral Door Interlocked BS88 Switch Fuses
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Part Number	Description	Price	Per
LBFD1253P	125A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£217.80	1
LBFD1603P	160A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£357.34	1
LBFD2003P	200A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£370.25	1
LBFD3153P	315A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£502.47	1
LBFD4003P	400A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£557.87	1
LBFD6303P	630A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£1012.30	1
LBFD8003P	800A (AC-22) Door Interlock 3P BS88 Switch Fuse & Handle	£1205.95	1

Part Number	Description	Price	Per
LBFD1253PSN	125A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£277.09	1
LBFD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£446.55	1
LBFD2003PSN	200A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£454.06	1
LBFD3153PSN	315A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£585.58	1
LBFD4003PSN	400A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£618.91	1
LBFD6303PSN	630A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£1130.79	1
LBFD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£1349.71	1

125-800A BS88 Switch Fuse Accessory Selection Table

Part Number (Door Interlock)	Input Terminal Shroud Set	Output Terminal Shroud Set	Aux. Contact 1N/O & 1N/C	Aux. Contact 2N/O & 2N/C
BS88 3 Pole Switch Fuse				
LBFD1253P	With Tunnel Terminals, Shroud Sets Not Required		LBAC050	LBAC060
LBFD1603P	LBTS050	LBTS060	LBAC010	LBAC020
LBFD2003P				
LBFD3153P	LBTS080	LBTS090		
LBFD4003P				
LBFD6303P	LBTS110	LBTS120		
LBFD8003P				
BS88 3 Pole + Switched Neutral Switch Fuse				
LBFD1253PSN	With Tunnel Terminals, Shroud Sets Not Required		LBAC050	LBAC060
LBFD1603PSN	LBTS070	LBTS070	LBAC010	LBAC020
LBFD2003PSN				
LBFD3153PSN	LBTS100	LBTS100		
LBFD4003PSN				
LBFD6303PSN	LBTS130	LBTS130		
LBFD8003PSN				

Door Interlocked Changeover Switches 160-1000A

3 Pole + Sw. Neutral Door Interlocked Changeover Switches



KEMA and CE Certified

EN 60947-3

Supplied with IP65 door handle and shaft

Handle padlockable in the OFF position for up to 3 padlocks

Handle with defeat mechanism (For authorised personnel only)

Neutral switch contact early make / late break

Terminal shrouds supplied separately

Break before make 3 position switch - centre OFF

All switches with lug terminals

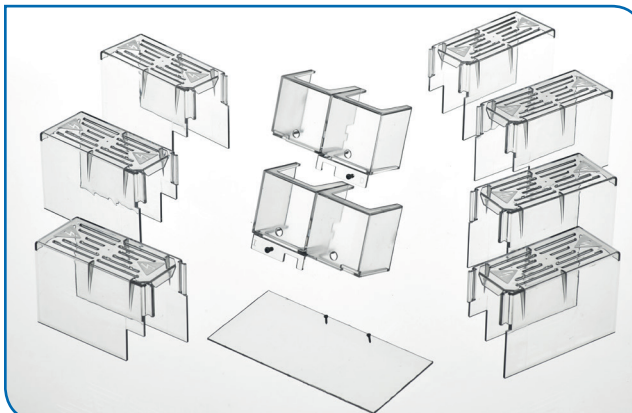
All AC ratings 400V (415V)



Part Number	Description	Price	Per
LBCD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£365.04	1
LBCD2003PSN	200A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£454.67	1
LBCD2503PSN	250A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£544.00	1
LBCD3153PSN	315A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£624.59	1
LBCD4003PSN	400A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£706.09	1
LBCD6303PSN	630A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£1025.07	1
LBCD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£1393.07	1
LBCD10003PSN	1000A (AC-23) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£2204.54	1

160-1000A Changeover Accessory Selection Table				
Part Number (Door Interlock)	Input Terminal Shroud	Output Terminal Shroud	Aux. Contact 1NO & 1NC	Aux. Contact 2NO & 2NC
3 Pole + Switched Neutral Changeover Switches				
LBCD1603PSN	LBTS010	LBTS010	LBAC030	LBAC040
LBCD2003PSN				
LBCD2503PSN				
LBCD3153PSN	LBTS070	LBTS140	LBAC010	LBAC020
LBCD4003PSN				
LBCD6303PSN				
LBCD8003PSN				
LBCD10003PSN	LBTS130	LBTS170		

Terminal Shrouds for Safe Switch Range



To provide IP20 terminal protection on the input and output terminals
Transparent terminal shrouds to assist in maintenance and inspection.

Part Number	Description	Price	Per
LBTS010	Shroud Set for LB200-250A LBC 160-250A 3P 3PSN (input / output)	£8.00	Set
LBTS020	Shroud Set for LB315A 3P 3PSN (input / output)	£9.95	Set
LBTS030	Shroud Set for LB400A 3P 3PSN (input / output)	£17.80	Set
LBTS040	Shroud Set for LB630-800A (input / output)	£12.25	Set
LBTS050	Shroud Set for LBF160-200A 3P (input)	£12.70	Set
LBTS060	Shroud Set for LB160-200A 3P (output)	£12.70	Set
LBTS070	Shroud Set for LBF160-200A 3PSN, LBC315-400A (input)	£18.63	Set
LBTS080	Shroud Set for LBF315-400A 3P (input)	£27.95	Set
LBTS090	Shroud Set for LBF315-400A 3P (output)	£27.95	Set
LBTS100	Shroud Set for LBF315-400A 3PSN, LBC630-800A (input)	£34.35	Set
LBTS110	Shroud Set for LBF630-800A 3P (input)	£34.35	Set
LBTS120	Shroud Set for LBF630-800A 3P (output)	£34.35	Set
LBTS130	Shroud Set for LBF630-800A 3PSN (input / output)	£37.35	Set
LBTS140	Shroud Set for LBC315-400A 3PSN (output)	£18.40	Set
LBTS150	Shroud Set for LBC630-800A 3PSN (output)	£29.90	Set
LBTS160	Shroud Set for LB1000A (input or output)	£17.15	Set
LBTS170	Shroud Set for LBC1000A (output)	£36.35	Set

NB: LBTS130 shroud for LBF630-800A (Input / output) is also suitable for the LBC1000A (input)
2 sets of input terminal shrouds are required (Input 1 & input 2) for 315-1000A changeover switches

Auxiliary Contacts for Safe Switch Range



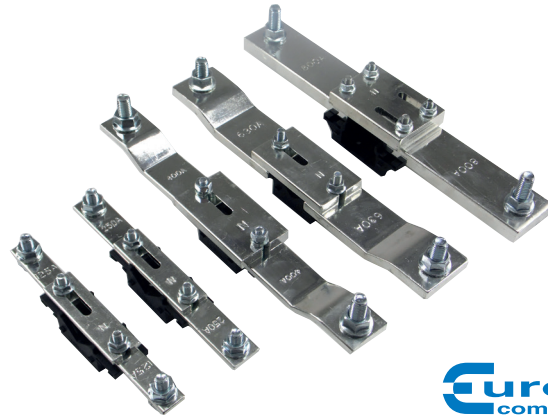
CE Certified

Complete with fixings
16A resistive loads
4A inductive loads at 240V AC



Part Number	Description	Price	Per
LBAC010	1N/O + 1N/C Aux. Contact for LB, LBF 160-800A, LBC 315-800A	£13.00	1
LBAC020	2N/O + 2N/C Aux. Contact for LB, LBF 160-800A, LBC 315-800A	£32.00	1
LBAC030	1N/O + 1N/C Aux. Contact for LBC 160-250A	£13.95	1
LBAC040	2N/O + 2N/C Aux. Contact for LBC 160-250A	£36.25	1
LBAC050	1N/O + 1N/C Aux. Contact for LBF 125A	£18.10	1
LBAC060	2N/O + 2N/C Aux. Contact for LBF 125A	£30.10	1

Neutral Links for Safe Switch Range



CE Certified

100% fully rated / Tested to IEC 61439
Conductor: Tin plated high conductivity copper
Support: Glass reinforced polyamide 6.6
Equipment voltage Ue: 690V / Insulation voltage Ui: 690V
Impulse voltage Uimp: 8kV / Easy to use link disconnect
UL 94-VO shroud covers available for added protection



Part Number	Description	Price	Per
LBNL125A	Neutral Link 125A	£30.60	1
LBNL250A	Neutral Link 250A	£31.75	1
LBNL400A	Neutral Link 400A	£65.85	1
LBNL630A	Neutral Link 630A	£94.10	1
LBNL800A	Neutral Link 800A	£188.10	1
LBNL1000A	Neutral Link 1000A	£275.15	1

160-250A Bridging Links for Safe Switch Range



CE Certified

Bridging links can be connected to either side of the changeover switch

NB: Bridging links are not required for switches rated at 315-800A as these come complete with internal bridging links

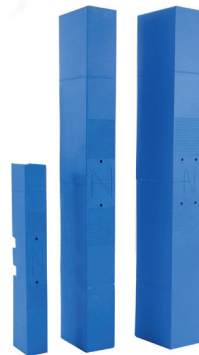
Rated up to 250A

Part Number	Description	Price	Per
LBCBL010	Bridging Links LBC160-250A	£36.76	1

NB: Both enclosed and door interlock LBC160 - 250A switches are supplied with bridging links as standard.



Neutral Link Terminal Shrouds for Safe Switch Range



CE Certified

Neutral link terminal shrouds
Material: Polyamide 6
Flammability: UL94-VO
IP Rating: Neutral link plus shroud IP2X



Part Number	Description	Price	Per
LBNLTS250A	Shroud for 125-250A Neutral Link Terminal	£18.80	1
LBNLTS630A	Shroud for 400-630A Neutral Link Terminal	£47.10	1
LBNLTS800A	Shroud for 800-1000A Neutral Link Terminal	£54.10	1

Replacement Blue & White Handle & Shaft for Safe Switch Range



IP65 Handle padlockable in the OFF position for up to three padlocks
Handle with defeat mechanism (For authorised personnel only)

Part Number	Description	Price	Per
LBPHBW010	For LB160-250A	£32.80	1
LBPHBW020	For LB315-400A + LBF160-200A	£62.35	1
LBPHBW030	For LB630-800A	£65.20	1
LBPHBW040	For LBF315-400A	£70.90	1
LBPHBW050	For LBF630-800A	£63.20	1
LBPHBW060	For LBC160-250A	£34.50	1
LBPHBW070	For LBC315-400A	£60.10	1
LBPHBW080	For LBC630-800A	£65.95	1
LBPHBW090	For LB1000A	£71.90	1
LBPHBW100	For LBF125A	£45.60	1
LBPHBW110	For LBC1000A	£112.25	1

NB: All Safe Switches are supplied with blue / white handles & shafts as standard

Red & Yellow Handle & Shaft for Safe Switch Range



IP65 Handle padlockable in the OFF position for up to three padlocks
Handle with defeat mechanism (For authorised personnel only)

Part Number	Description	Price	Per
LBPHRY010	For LB160-250A	£36.70	1
LBPHRY020	For LB315-400A & LBF160-200A	£68.35	1
LBPHRY030	For LB630-800A	£74.35	1
LBPHRY040	For LBF315-400A	£78.55	1
LBPHRY050	For LBF630-800A	£82.70	1
LBPHRY090	For LB1000A	£93.60	1
LBPHRY100	For LBF125A	£51.80	1

listed in
LUCKINSlive™

Extended Shaft for Safe Switch Range



Specially designed for use with the Safe Switch range of door interlocked switch-disconnector, BS88 switch fuse and changeover switches.
These extended shafts assist in the installation of the switches into deep enclosures and panel boards.
For switch application see table on page 33

Part Number	Description	Price	Per
LBES010	For LB & LBC 160-250A 250mm	£12.35	1
LBES020	For LB & LBC 160-250A & LBF125A 387mm	£13.65	1
LBES030	For LB & LBC 315-400A & LBF160-200A 376mm	£15.15	1
LBES040	For LB & LBC 315-400A & LBF160-200A 536mm	£18.83	1
LBES050	For LB & LBC 630-1000A & LBF315-800A 345mm	£20.75	1
LBES060	For LB & LBC 630-1000A & LBF315-800A 535mm	£23.86	1



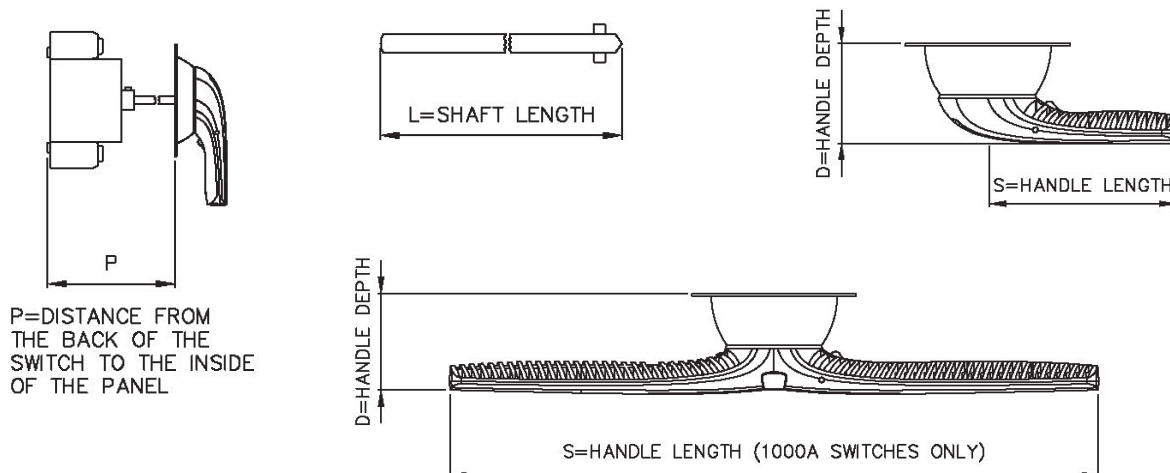
Please See **pages 28-33** for technical data on all of our Safe Switch accessories

Handle & Shaft Data for Enclosed and Door Interlocked Switch-Disconnecter, BS88 Switch Fuses & Changeover Switches

Product Prefix	Blue & White Handle	Red & Yellow Handle	Shaft Section (mm)	L (mm)	P (mm)	S (mm)	D (mm)
Switch-Disconnecter Standard Handle and Shafts							
LB160/200/250 / LBD160/200/250	LBPBHW010	LBPHRY010	□ 7	177	87-197	94	45
LB315/400 / LBD315/400	LBPBHW010	LBPHRY020	□ 10	227	103-240	115	
LB630/800 / LBD630/800	LBPH030	LBPHRY030	□ 14	195	134-240	143	60
LB1000 / LBD1000	LBPBHW090	LBPHRY090		186	145-242	396	
BS88 Switch Fuse Standard Handle and Shafts							
LBF125 / LBFD125	LBPBHW100	LBPHRY100	□ 7	250	165-282	94	45
LBF160/200 / LBFD160/200	LBPBHW020	LBPHRY020	□ 10	227	180-292	115	
LBF315/400 / LBFD315/400	LBPBHW040	LBPHRY040	□ 14	239	216-286	176	60
LBF630/800 / LBFD630/800	LBPBHW050	LBPHBW050		186	235-286		
Changeover Switch Standard Handle and Shafts							
LBC160/200/250 / LBDC160/200/250	LBPBHW060	Not Available	□ 7	177	163-250	94	60
LBC315/400 / LBDC315/400	LBPBHW070		□ 10	227	166-293	143	
LBC630/800 / LBDC630/800	LBPBHW080		□ 14	195	195-272	176	69
LBC1000 / LBDC1000	LBPBHW110			186	223-298	396	

Extended Shaft Data for Enclosed and Door Interlocked Switch-Disconnecter BS88 Switch Fuses & Changeover Switches

Product Prefix	Extended Shaft Type 1	Shaft Section (mm)	L (mm)	P (mm)	Extended Shaft Type 2	L (mm)	P (mm)
Switch-Disconnecter Extended Shafts							
LBD160/200/250	LBES010	□ 7	250	87-270	LBES020	387	87-407
LBD315/400	LBES030	□ 10	375	103-404	LBES040	536	103-565
LBD630/800	LBES050	□ 14	345	134-390	LBES060	535	134-580
LBD1000				145-401			145-591
BS88 Switch Fuse Extended Shafts							
LBFD125	LBES020	□ 7	387	165-419	Not Available		
LBFD160/200	LBES030	□ 10	375	180-440	LBES040	536	180-601
LBFD315/400	LBES050	□ 14	345	216-392	LBES060	535	216-582
LBFD630/800				235-445			235-635
Changeover Switch Extended Shafts							
LBDC160/200/250	LBES010	□ 7	250	163-323	LBES020	387	163-460
LBDC315/400	LBES030	□ 10	376	166-442	LBES040	536	166-602
LBDC630/800	LBES050	□ 14	345	195-422	LBES060	535	195-612
LBDC1000				223-457			223-647



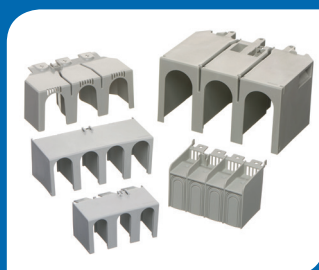


Europa's highly popular enclosed Safe Switch range has had a welcome addition of industry proven and well renowned Terasaki MCCB's and CBR's (MCCB + RCD)

All Terasaki protective devices are offered in an IP4X robust metal enclosure finished in a durable **RAL 7035** (Light grey) epoxy powder coated finish. These enclosures have been designed to ensure that the installation is quick and easy. The Terasaki devices can also be purchased separately for mounting in control and distribution panels.

The Terasaki devices are complimented by a comprehensive range of accessories which include the following:

- Auxiliary changeover switches (1NO + 1NC contact) for MCCB/CBR
- Alarm switches (Indicating that the MCCB/CBR has tripped)
- Shunt trips (Allows an MCCB to be tripped remotely)
- Undervoltage trip (MCCB will trip automatically on low voltage conditions)
- Terminal extension bars for increased terminal capacity
- IP2X terminal covers for protection against shock
- Toggle locking device (Can lock the MCCB/CBR in both the On and Off position)



Smart Solutions, Switched On Service



Large enclosure and full width gland plates provide easy access and generous working space for a quicker, easier installation.



Pre-fitted extension bars provide increased terminal capacity and easier installation of multiple cables.

IP2X shrouded input and output terminals provide protection against electric shock.



2mm thick top & bottom gland plates ensure solid and secure fixing for large and multiple cables.

Fully rated IP2X shrouded neutral link (Where fitted), allows easy isolation for maintenance and inspection without disconnecting the neutral cables.

Multiple earthing points for a cleaner installation and easier inspection.

Raised MCCB provides easy access for dual cable installation.

TemBreak

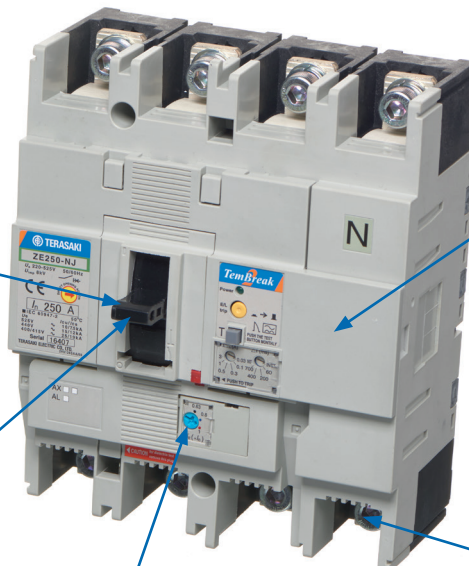
Well established, industry proven and reliable Terasaki MCCB's & CBR's

Direct acting toggle showing positive indication of switch contacts

Colour coded 3 position toggle to clearly indicate device condition

Tripped - Black (Shown)
On - Red
Off - Green

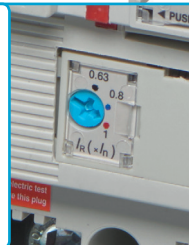
Adjustable thermal protection (0.63 to 1 x In) for greater product flexibility and less stock holding
125A ranges from 80 - 125A
160A ranges from 100 - 160A
250A ranges from 160 - 250A
400A ranges from 252 - 400A (MCCB Only)



Circuit breaker with adjustable integral residual current protection (0.03 - 3 Seconds) (CBR's) available 125-250A One product for multiple solutions.

Compact design for use in smaller control panels and enclosures.

Individual phase barriers (Not shown) are provided for the line side giving maximum insulation between phases.



**IP4X Metal Enclosed MCCB's and CBR's
125-400A 3 Pole + Neutral Link and 4 Pole**

3 Pole + Neutral Link Enclosed MCCB 125-400A IP4X



IEC 60947-2 & CE
 IP4X RAL 7035 metal enclosure. Top and bottom gland plates.
 Supplied with IP2X input and output terminal shrouds.
 Terminal extension bars fitted for greater cable capacity and allows 2 cables to be connected.
 Fully rated neutral link
 Adjustable thermal (0.63 to 1 x In) and fixed magnetic protection (125-160A). Adjustable thermal and magnetic protection (250-400A).
 Supplied with padlockable handle lock for up to 3 padlocks.
All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
MCCB125-3PNL-25AT-MC	125A (80-125) Enclosed MCCB 25kA 3P + Neutral Link	£522.55	1
MCCB160-3PNL-25AT-MC	160A (100-160) Enclosed MCCB 25kA 3P + Neutral Link	£576.01	1
MCCB250-3PNL-25AA-MC	250A (160-250) Enclosed MCCB 25kA 3P + Neutral Link	£816.56	1
MCCB400-3PNL-36AA-MC	400A (252-400) Enclosed MCCB 36kA 3P + Neutral Link	£1454.57	1

NB: For accessories see pages 40-41

4 Pole Enclosed MCCB 125-400A IP4X



IEC 60947-2 & CE
 IP4X RAL 7035 metal enclosure. Top and bottom gland plates.
 Supplied with IP2X input and output terminal shrouds.
 Terminal extension bars fitted for greater cable capacity and allows 2 cables to be connected.
 Adjustable thermal (0.63 to 1 x In) and fixed magnetic protection (125-160A). Adjustable thermal and magnetic protection (250-400A).
 Supplied with padlockable handle lock for up to 3 padlocks.
All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
MCCB125-4P-25AT-MC	125A (80-125) Enclosed MCCB 25kA 4 Pole	£551.92	1
MCCB160-4P-25AT-MC	160A (100-160) Enclosed MCCB 25kA 4 Pole	£614.98	1
MCCB250-4P-25AA-MC	250A (160-250) Enclosed MCCB 25kA 4 Pole	£955.01	1
MCCB400-4P-36AA-MC	400A (252-400) Enclosed MCCB 36kA 4 Pole	£1751.76	1

NB: For accessories see pages 40-41

MCCB Enclosed Product	MCCB Device Only	MCCB Device Description	Rated Current In (A)	Ultimate Breaking Capacity Icu at 400/415V AC (kA)	¹ Magnetic Trip Current Ii (A)	Adjustable Thermal Trip Current Ir (A)	Adjustable Thermal Trip Current Range (A)
MCCB125-3PNL-25AT-MC	596629	125A S160-SCJ 3P 25kA MCCB	125	25kA	12 x In	0.63 to 1 x In	80-125
MCCB160-3PNL-25AT-MC	596636	160A S160-SCJ 3P 25kA MCCB	160		10 x In		100-160
MCCB250-3PNL-25AA-MC	930522	250A E250-SJ 3P 25kA MCCB	250		5-11 x In		160-250
MCCB400-3PNL-36AA-MC	381430	400A S400-CJ 3P 36kA MCCB	400	36kA	6-12 x In		252-400
MCCB125-4P-25AT-MC	596766	125A S160-SCJ 4P 25kA MCCB	125	25kA	12 x In		80-125
MCCB160-4P-25AT-MC	596773	160A S160-SCJ 4P 25kA MCCB	160		10 x In		100-160
MCCB250-4P-25AA-MC	930621	250A E250-SJ 4P 25kA MCCB	250		5-11 x In		160-250
MCCB400-4P-36AA-MC	378652	400A S400-CJ 4P 36kA MCCB	400	36kA	6-12 x In		252-400

¹ Magnetic Trip Tolerance +/- 20%

3 Pole + Neutral Link Enclosed CBR (MCCB+RCD) 125-250A IP4X



4 Pole Enclosed CBR (MCCB+RCD) 125-250A IP4X



IEC 60947-2 & CE

IP4X RAL 7035 metal enclosure. Top and bottom gland plates. Supplied with IP2X input and output terminal shrouds. Terminal extension bars fitted for greater cable capacity and allows 2 cables to be connected. Fully rated neutral link. Adjustable thermal (0.63 to 1 x I_n) and fixed magnetic protection. Adjustable residual current (30mA-3A) and adjustable time delay (0-700mS). Supplied with padlockable handle lock for up to 3 padlocks. **All ratings at 400/415V AC 50/60Hz**

Part Number	Description	Price	Per
CBR125-3PNL-25AT-MC	125A (80-125) Enclosed CBR 25kA 3P + Neutral Link	£1022.27	1
CBR160-3PNL-25AT-MC	160A (100-160) Enclosed CBR 25kA 3P + Neutral Link	£1144.72	1
CBR250-3PNL-25AT-MC	250A (160-250) Enclosed CBR 25kA 3P + Neutral Link	£1475.83	1

IEC 60947-2 & CE

IP4X RAL 7035 metal enclosure. Top and bottom gland plates. Supplied with IP2X input and output terminal shrouds. Terminal extension bars fitted for greater cable capacity and allows 2 cables to be connected. Adjustable thermal (0.63 to 1 x I_n) and fixed magnetic protection. Adjustable residual current (30mA-3A) and adjustable time delay (0-700mS). Supplied with padlockable handle lock for up to 3 padlocks. **All ratings at 400/415V AC 50/60Hz**

Part Number	Description	Price	Per
CBR125-4P-25AT-MC	125A (80-125) Enclosed CBR 25kA 4 Pole	£1159.65	1
CBR160-4P-25AT-MC	160A (100-160) Enclosed CBR 25kA 4 Pole	£1368.18	1
CBR250-4P-25AT-MC	250A (160-250) Enclosed CBR 25kA 4 Pole	£1688.37	1

NB: For accessories see pages 40-41

NB: For accessories see pages 40-41

CBR Enclosed Product	CBR Device Only	CBR Device Description	Rated Current I _n (A)	Ultimate Breaking Capacity I _{cu} at 400/415V AC	¹ Magnetic Trip Current I _i (A)	Adjustable Thermal Trip Current I _r (A)	Adjustable Thermal Trip Current Range (A)	CBR Adjustable Residual Trip Current (A)	² CBR adjustable Trip Time (S)
CBR125-3PNL-25AT-MC	622151	125A ZE125-NJ 3P 25kA CBR	125	25kA	10 x I _n	0.63 to 1 x I _n	80-125	0.03, 0.1, 0.3, 0.5, 1, 3	T0 (40), 60 (195), 200 (365), 400 (620), 700 (950), NT (No trip)
CBR160-3PNL-25AT-MC	642807	160A ZE250-NJ 3P 25kA CBR	160		13 x I _n		100-160		
CBR250-3PNL-25AT-MC	642814	250A ZE250-NJ 3P 25kA CBR	250		10 x I _n		160-250		
CBR125-4P-25AT-MC	622250	125A ZE125-NJ 4P 25kA CBR	125		10 x I _n		80-125		
CBR160-4P-25AT-MC	642906	160A ZE250-NJ 4P 25kA CBR	160		13 x I _n		100-160		
CBR250-4P-25AT-MC	642913	250A ZE250-NJ 4P 25kA CBR	250		10 x I _n		160-250		

¹ Magnetic Trip Tolerance +/- 20%

² Adjustable time delay is introduced to the residual current (earth leakage) protection characteristic. When 0 is selected the maximum actual tripping time is 40mS. If NT is selected, the device will not trip. The maximum breaking time at each setting is shown in brackets. If the residual current is set at 30mA the selectable time delay automatically is set to 0 (40mS)

Enclosure sizes (in mm)					Cable Capacity	Cable Lug Bolt size
MCCB	CBR	Height	Width	Depth		
MCCB125	CBR125	550	300	130	2x95mm ²	M8
MCCB160	CBR160					
MCCB250	CBR250	700	400			
MCCB400	-	1000	500	165	2x240mm ²	M12

Terasaki 125-400A MCCB Devices 3 and 4 Pole

MCCB's 3 Pole 125-400A

MCCB's 4 Pole 125-400A



TemBreak



TemBreak

IEC 60947-2 & CE

Adjustable thermal (0.63 to 1 x In) and fixed magnetic protection (125-160A).
Adjustable thermal and magnetic protection (250-400A).
All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
596629	125A (80-125) S160-SCJ MCCB 25kA 3 Pole	£165.15	1
596636	160A (100-160) S160-SCJ MCCB 25kA 3 Pole	£206.44	1
930522	250A (160-250) E250-SJ MCCB 25kA 3 Pole	£369.26	1
381430	400A (252-400) S400-CJ MCCB 36kA 3 Pole	£610.42	1

NB: For accessories see pages 40-41

IEC 60947-2 & CE

Adjustable thermal (0.63 to 1 x In) and fixed magnetic protection (125-160A).
Adjustable thermal and magnetic protection (250-400A).
All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
596766	125A (80-125) S160-SCJ MCCB 25kA 4 Pole	£198.19	1
596773	160A (100-160) S160-SCJ MCCB 25kA 4 Pole	£247.73	1
930621	250A (160-250) E250-SJ MCCB 25kA 4 Pole	£516.96	1
378652	400A (252-400) S400-CJ MCCB 36kA 4 Pole	£879.00	1

NB: For accessories see pages 40-41

MCCB Device Only	MCCB Device Description	Extension Bars (straight)	Extension Bar Terminal Cover (straight)	Extension Bars (spread)	Extension Bar Terminal Cover (spread)	Terminal Cover Lock	Toggle Locking Device
596629	125A S160-SCJ 3P 25kA MCCB	T068072KIT	T065248	T068096KIT	T065262	T066917	T064906
596636	160A S160-SCJ 3P 25kA MCCB						
930522	250A E250-SJ 3P 25kA MCCB						
381430	400A S400-CJ 3P 36kA MCCB	T010415KIT	T081002	T010323KIT	T081347	T038006	37306
596766	125A S160-SCJ 4P 25kA MCCB	T068089KIT	T065255	T068102KIT	T065279	T066917	T064906
596773	160A S160-SCJ 4P 25kA MCCB						
930621	250A E250-SJ 4P 25kA MCCB						
378652	400A S400-CJ 4P 36kA MCCB	T010422KIT	T081019	T010330KIT	T080814	T038006	37306

Note: For input and output terminals, 2 set of extension bars and 2 terminal covers are required

Terasaki 125-250A CBR (MCCB + RCD) Devices 3 and 4 Pole

Circuit Breakers with Residual Current Protection - CBR (MCCB+RCD) 4 Pole 125-250A

Circuit Breakers with Residual Current Protection
- CBR (MCCB+RCD) 3 Pole 125-250A



TemBreak



TemBreak

IEC 60947-2 & CE

Adjustable thermal (0.63 to 1 x I_n) and fixed magnetic protection.
Adjustable residual current (30mA-3A) and adjustable time delay
(0-700mS).

All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
622151	125A (80-125) ZE125-NJ CBR 25kA 3 Pole	£557.69	1
642807	160A (100-160) ZE250-NJ CBR 25kA 3 Pole	£634.39	1
642814	250A (160-250) ZE250-NJ CBR 25kA 3 Pole	£894.55	1

NB: For accessories see pages 40-41

IEC 60947-2 & CE

Adjustable thermal (0.63 to 1 x I_n) and fixed magnetic protection.
Adjustable residual current (30mA-3A) and adjustable time delay
(0-700mS).

All ratings at 400/415V AC 50/60Hz

Part Number	Description	Price	Per
622250	125A (80-125) ZE125-NJ CBR 25kA 4 Pole	£670.90	1
642906	160A (100-160) ZE250-NJ CBR 25kA 4 Pole	£810.68	1
642913	250A (160-250) ZE250-NJ CBR 25kA 4 Pole	£1062.26	1

NB: For accessories see pages 40-41

CBR Device Only	CBR Device Description	Extension Bars (straight)	Extension Bar Terminal Cover (straight)	Terminal Cover Lock	Toggle Locking Device
622151	125A ZE125-NJ 3P 25kA CBR	T010026KIT	T080425	T038006	T037016
642807	160A ZE250-NJ 3P 25kA CBR	T010408KIT	T080456		
642814	250A ZE250-NJ 3P 25kA CBR				
622250	125A ZE125-NJ 4P 25kA CBR	T010040KIT	T080432		
642906	160A ZE250-NJ 4P 25kA CBR	T010163KIT	T080463		
642913	250A ZE250-NJ 4P 25kA CBR				

Note: For input and output terminals, 2 set of extension bars and 2 terminal covers are required

Terasaki Accessories for MCCB and CBR

Auxiliary Changeover Switches (AX)



An auxiliary changeover switch (AX) indicates the ON or OFF status of the switch. Auxiliary switches are colour coded grey. Switch capacity 3A resistive / 2A inductive at 240V AC

Part Number	Description	Price	Per
T002489	S160/E250 Auxiliary Changeover Switch	£17.89	1
T000348	S400 & CBR Auxiliary Changeover Switch	£17.91	1

Alarm Changeover Switches (AL)



An alarm changeover Switch (AL) indicates the TRIP status of the MCCB. Alarm switches are colour coded grey and black. Switch capacity 3A resistive / 2A inductive at 240V AC

Part Number	Description	Price	Per
T002557	S160/E250 Left Hand Alarm Changeover Switch	£17.89	1
T002564	S160/E250 Right Hand Alarm Changeover Switch	£17.89	1
T000744	S400 & CBR Alarm Changeover Switch	£17.91	1

Shunt Trips (SHT)



A shunt trip (SHT) allows an MCCB to be tripped remotely on the application of the rated coil voltage across the shunt trip terminals. The MCCB contacts and toggle will move to the tripped position when the shunt trip is operated.

Part Number	Description	Price	Per
T002656	S160/E250 Shunt Trip 200-240V AC	£58.50	1
T000911	S400 Shunt Trip 200-240V AC	£58.60	1

Undervoltage Trips (UVT)



An undervoltage trip (UVT) will trip the MCCB automatically when voltage applied to the terminals of the undervoltage coil drops to between 70% and 35% of its voltage rating. The undervoltage trip prevents the MCCB being closed unless a voltage of at least 85% is applied across the terminals of the undervoltage coil.

Part Number	Description	Price	Per
T002786	S160/E250 Undervoltage Trip 200-240V AC	£73.15	1
T001215	S400 Undervoltage Trip 200-240V AC	£73.26	1

NB: Shunt and undervoltage trip devices are not available for the CBR devices

MCCB Enclosed Product	MCCB Device Only	MCCB Device Description	*Auxiliary Changeover Switch (AX)	*Alarm Changeover Switch (AL) - left pole	*Alarm Changeover Switch (AL) - right pole	Shunt Trip (SHT) 200-240V AC	Undervoltage Trip (UVT) 200-240V AC
MCCB125-3PNL-25AT-MC	596629	125A S160-SCJ 3P 25kA MCCB					
MCCB160-3PNL-25AT-MC	596636	160A S160-SCJ 3P 25kA MCCB	T002489	T002557	T002564	T002656	T002786
MCCB250-3PNL-25AA-MC	930522	250A E250-SJ 3P 25kA MCCB					
MCCB400-3PNL-25AA-MC	381430	400A S400-CJ 3P 36kA MCCB	T000348	T000744		T000911	T001215
MCCB125-4P-25AT-MC	596766	125A S160-SCJ 4P 25kA MCCB					
MCCB160-4P-25AT-MC	596773	160A S160-SCJ 4P 25kA MCCB	T002489	T002557	T002564	T002656	T002786
MCCB250-4P-25AA-MC	930621	250A E250-SJ 4P 25kA MCCB					
MCCB400-4P-25AA-MC	378652	400A S400-CJ 4P 36kA MCCB	T000348	T000744		T000911	T001215

CBR Enclosed Product	CBR Device Only	CBR Device Description	*Auxiliary Changeover Switch (AX)	*Alarm Changeover Switch (AL) - left pole	*Alarm Changeover Switch (AL) - right pole
CBR125-3PNL-25AT-MC	622151	125A ZE125-NJ 3P 25kA CBR			
CBR160-3PNL-25AT-MC	642807	160A ZE250-NJ 3P 25kA CBR	T000348		T000744
CBR250-3PNL-25AT-MC	642814	250A ZE250-NJ 3P 25kA CBR			
CBR125-4P-25AT-MC	622250	125A ZE125-NJ 4P 25kA CBR			
CBR160-4P-25AT-MC	642906	160A ZE250-NJ 4P 25kA CBR			
CBR250-4P-25AT-MC	642913	250A ZE250-NJ 4P 25kA CBR			

*Auxiliary & Alarm Switch Ratings:	110/240V AC	3A Resistive	2A Inductive	Minimum load 100mA at 15V DC Terminal Capacity 0.5-1.25mm ²
	30V DC			

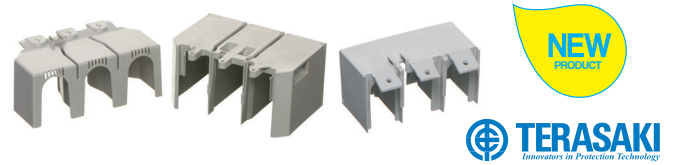
MCCB & CBR Extension Bars



Extension bars are terminal extensions and are used to connect large conductors and multiple conductors.

Part Number	Description	Price	Per
T068072KIT	S160 3 Pole MCCB Extension Bar Kit (Straight)	£15.82	1
T068089KIT	S 160 4 Pole MCCB Extension Bar Kit (Straight)	£19.25	1
T068096KIT	S160 3 Pole MCCB Extension Bar Kit (Spread)	£24.83	1
T068102KIT	S160 4 Pole MCCB Extension Bar Kit (Spread)	£31.55	1
T061608KIT	E250 3 Pole MCCB Extension Bar Kit (Straight)	£23.38	1
T061615KIT	E250 4 Pole MCCB Extension Bar Kit (Straight)	£34.37	1
T061622KIT	E250 3 Pole MCCB Extension Bar Kit (Spread)	£28.38	1
T061639KIT	E250 4 Pole MCCB Extension Bar Kit (Spread)	£37.82	1
T010415KIT	S400 3 Pole MCCB Extension Bar Kit (Straight)	£31.04	1
T010422KIT	S400 4 Pole MCCB Extension Bar Kit (Straight)	£40.84	1
T010323KIT	S400 3 Pole MCCB Extension Bar Kit (Spread)	£31.04	1
T010330KIT	S400 4 Pole MCCB Extension Bar Kit (Spread)	£40.84	1
T010026KIT	ZE125 3 Pole CBR Extension Bar Kit (Straight)	£24.86	1
T010040KIT	ZE125 4 Pole CBR Extension Bar Kit (Straight)	£34.09	1
T010408KIT	ZE250 3 Pole CBR Extension Bar Kit (Straight)	£24.91	1
T010163KIT	ZE250 4 Pole CBR Extension Bar Kit (Straight)	£35.40	1

IP2X Terminal Covers for MCCB's & CBR's



Part Number	Description	Price	Per
T065248	S160 3 Pole MCCB Extension Bar Terminal Cover (Straight)	£14.96	1
T065255	S160 4 Pole MCCB Extension Bar Terminal Cover (Straight)	£19.47	1
T065262	S160 3 Pole MCCB Extension Bar Terminal Cover (Spread)	£14.96	1
T065279	S160 4 Pole MCCB Extension Bar Terminal Cover (Spread)	£19.43	1
T065309	E250 3 Pole MCCB Extension Bar Terminal Cover (Straight)	£14.96	1
T065316	E250 4 Pole MCCB Extension Bar Terminal Cover (Straight)	£20.93	1
T065323	E250 3 Pole MCCB Extension Bar Terminal Cover (Spread)	£14.96	1
T065330	E250 4 Pole MCCB Extension Bar Terminal Cover (Spread)	£20.93	1
T081002	S400 3 Pole MCCB Extension Bar Terminal Cover (Straight)	£22.46	1
T080814	S400 4 Pole MCCB Extension Bar Terminal Cover (Spread)	£36.80	1
T081347	S400 3 Pole MCCB Extension Bar Terminal Cover (Spread)	£27.67	1
T081019	S400 4 Pole MCCB Extension Bar Terminal Cover (Straight)	£29.96	1
T080425	ZE125 3 Pole CBR Extension Bar Terminal Cover (Straight)	£14.97	1
T080432	ZE125 4 Pole CBR Extension Bar Terminal Cover (Straight)	£19.48	1
T080456	ZE250 3 Pole CBR Extension Bar Terminal Cover (Straight)	£14.97	1
T080463	ZE250 4 Pole CBR Extension Bar Terminal Cover (Straight)	£20.97	1

Toggle Locking Devices



A padlockable toggle locking device allows MCCB's to be locked in the OFF and ON position using up to 3 padlocks. 160-250A devices accepts 5mm hasp. 400A devices accepts 8mm hasp.

Part Number	Description	Price	Per
T064906	S160/E250 Toggle Locking Device	£12.09	1
T037016	S400 Toggle Locking Device	£12.10	1
T037306	ZE125/250 Toggle Locking Device	£12.10	1

Terminal Cover Locks



Sealable terminal cover locks (seal not supplied)

Part Number	Description	Price	Per
T066917	S160 Terminal Cover Lock	£1.62	1
T065644	E250 Terminal Cover Lock	£2.10	1
T038006	S400 & ZE125 / 250 Terminal Cover Lock	£1.62	1

Enclosures
Epoxy Coated Strong Steel Enclosures
Portrait Epoxy Coated Strong Steel Enclosures (*IP65)


RAL 7035 / 1.2mm thick steel / External dimensions shown
 Earth studs included / Top and bottom gland plates
 Galvanised back plate included
 *IP65 when fully sealed

Enclosure Sizes with 1 Lock

Part Number	Description	Price	Per
STB252515	H: 250 x W: 250 x D: 150mm	£42.14	1
STB302515	H: 300 x W: 250 x D: 150mm	£48.55	1
STB303015	H: 300 x W: 300 x D: 150mm	£56.60	1
STB303020	H: 300 x W: 300 x D: 200mm	£60.90	1
STB403015	H: 400 x W: 300 x D: 150mm	£60.74	1
STB403020	H: 400 x W: 300 x D: 200mm	£65.83	1
STB403025	H: 400 x W: 300 x D: 250mm	£78.81	1
STB404015	H: 400 x W: 400 x D: 150mm	£70.49	1
STB404020	H: 400 x W: 400 x D: 200mm	£77.49	1
STB504020	H: 500 x W: 400 x D: 200mm	£87.40	1
STB504025	H: 500 x W: 400 x D: 250mm	£93.39	1

Enclosure Sizes with 2 Locks

Part Number	Description	Price	Per
STB505025	H: 500 x W: 500 x D: 250mm	£109.45	1
STB604020	H: 600 x W: 400 x D: 200mm	£98.85	1
STB604030	H: 600 x W: 400 x D: 300mm	£119.62	1
STB604040	H: 600 x W: 400 x D: 400mm	£148.40	1
STB605020	H: 600 x W: 500 x D: 200mm	£112.41	1
STB605025	H: 600 x W: 500 x D: 250mm	£123.28	1
STB605030	H: 600 x W: 500 x D: 300mm	£128.10	1
STB606020	H: 600 x W: 600 x D: 200mm	£131.55	1
STB606025	H: 600 x W: 600 x D: 250mm	£138.22	1
STB705020	H: 700 x W: 500 x D: 200mm	£126.94	1
STB705025	H: 700 x W: 500 x D: 250mm	£141.67	1
STB705030	H: 700 x W: 500 x D: 300mm	£156.56	1
STB804030	H: 800 x W: 400 x D: 300mm	£162.55	1
STB806020	H: 800 x W: 600 x D: 200mm	£175.17	1
STB806030	H: 800 x W: 600 x D: 300mm	£341.11	1
STB806040	H: 800 x W: 600 x D: 400mm	£207.60	1
STB1006030	H: 1000 x W: 600 x D: 300mm	£254.19	1
STB1008030	H: 1000 x W: 800 x D: 300mm	£309.94	1
STB1008040	H: 1000 x W: 800 x D: 400mm	£468.20	1

Enclosure Sizes with 3 Locks

Part Number	Description	Price	Per
STB1206030	H: 1200 x W: 600 x D: 300mm	£366.55	1
STB1208030	H: 1200 x W: 800 x D: 300mm	£440.70	1
STB1208040	H: 1200 x W: 800 x D: 400mm	£573.04	1
STB12010030	H: 1200 x W: 1000 x D: 300mm	£573.04	1

Enclosure Essentials

Part Number	Description	Price	Per
STBKEYLOCK	Key Lock (all keys alike) (for STB & SSTB)	£7.50	1
STBKEY020	Spare Standard Key (for STB & SSTB)	£3.40	1
STBRACKET	Fixing Brackets x 4 (Only for STB)	£6.80	1
SSTBRACKET	Stainless Steel Fixing Brackets x 4	£12.00	1
STBE220	Earth Strap for Steel Enclosures 220mm x 4 Sqmm	£12.00	1



Landscape Epoxy Coated Strong Steel Enclosures (*IP65)



RAL: 7035 / 1.2mm thick steel / External dimensions shown
Earth studs and top & bottom gland plates included
Galvanised back plate included / *IP65 when fully sealed

Part Number	Description	Price	Per
STB304020	H: 300 x W: 400 x D: 200mm	£72.41	1
STB405020	H: 400 x W: 500 x D: 200mm	£96.14	1
STB406020	H: 400 x W: 600 x D: 200mm	£108.73	1
STB406030	H: 400 x W: 600 x D: 300mm	£131.59	1

Strong Steel Extension Boxes and Weather Hoods

Extension Boxes and Weather Hoods (*IP65)



Extension Boxes



Weather Hoods

RAL: 7035 / 1.2mm thick steel / *IP65 when fully sealed
Extension boxes include earth studs and galvanised back plates

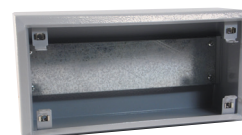
Part Number	Description	Price	Per
Extension Boxes			
STBEX204020	H: 200 x W: 400 x D: 200mm	£46.68	1
STBEX206020	H: 200 x W: 600 x D: 200mm	£61.53	1
STBEX206030	H: 200 x W: 600 x D: 300mm	£75.77	1
Weather Hoods			
STBWH104020	H: 100 x W: 400 x D: 200mm	£30.60	1
STBWH106020	H: 100 x W: 600 x D: 200mm	£44.09	1
STBWH106030	H: 100 x W: 600 x D: 300mm	£56.04	1

NB: Suitable for our range of Safe Switch metal enclosed products (Pages 12-26).

For corresponding enclosures please refer to the data sheets on our website.

Strong Steel Terminal Boxes

Steel Terminal Boxes (*IP65)



RAL 7035

*IP65 when fully sealed / 1.2mm thick steel

Complete with earth studs and galvanised back plate as standard



Part Number	Description	Price	Per
STBT151580	H: 150 x W: 150 x D: 80mm	£24.73	1
STBT151512	H: 150 x W: 150 x D: 120mm	£26.33	1
STBT201580	H: 200 x W: 150 x D: 80mm	£26.85	1
STBT201512	H: 200 x W: 150 x D: 120mm	£29.73	1
STBT202080	H: 200 x W: 200 x D: 80mm	£27.32	1
STBT202012	H: 200 x W: 200 x D: 120mm	£30.63	1
STBT301512	H: 300 x W: 150 x D: 120mm	£36.62	1
STBT302080	H: 300 x W: 200 x D: 80mm	£38.39	1
STBT302012	H: 300 x W: 200 x D: 120mm	£40.97	1

Stainless Steel Enclosures

Portrait Stainless Steel Enclosures (*IP65)



Grade 304 brushed stainless steel

Earth studs & galvanised back plate included / *IP65 when fully sealed

Part Number	Description	Price	Per
SSTB302015	H: 300 x W: 200 x D: 150mm	£162.60	1
SSTB303015	H: 300 x W: 300 x D: 150mm	£182.90	1
SSTB403020	H: 400 x W: 300 x D: 200mm	£223.55	1
SSTB404020	H: 400 x W: 400 x D: 200mm	£233.00	1
SSTB504020	H: 500 x W: 400 x D: 200mm	£288.60	1
SSTB604020	H: 600 x W: 400 x D: 200mm	£311.60	1
SSTB606020	H: 600 x W: 600 x D: 200mm	£426.80	1
SSTB806030	H: 800 x W: 600 x D: 300mm	£661.45	1
SSTB808030	H: 800 x W: 800 x D: 300mm	£880.65	1
STBKEYLOCK	Key Lock (all keys alike) (for STB & SSTB)	£7.50	1
STBKEY020	Spare Standard Key (for STB & SSTB)	£3.40	1
SSTBRACKET	Stainless Steel Fixing Bracket x 4	£12.00	1



THE TEMPO range



THE PICCOLO range



THE MNX range



THE SOLID range

FIBOX

Enclosing Innovations

At Fibox we appreciate your effort and match it with our own. Fibox is the leading innovator in developing enclosure solutions to protect your electrical and electronic designs from hostile environments. Simply put, we enclose your innovations.

Whatever your application, the Fibox enclosure family features the widest range of high quality products for the packaging and protection of electrical and electronic components and systems.

The Fibox range encompasses over 1200 different size configurations. Couple this with a comprehensive range of accessories, and Fibox is your ideal enclosure partner.

FIBOX
Enclosing innovations

For more information on the full range available from Europa Components please contact sales on: **01582 692 440**

FIBOX

ARCA IEC Cabinet IP66 IK10



Manufactured by Fibox

Glass fibre reinforced polycarbonate
IP66 / IK10 +35°C / IK09 -25°C / Glow wire flammability rating 960°C
Halogen free / UV resistant to UL 508
RAL 7035 / Galvanised steel mounting plate included
CE, EN / IEC 62208 & EN / IEC 61439-1-4

Part Number	Description	Price	Per
ARCA302015	H: 300 x W: 200 x D: 150mm	£54.48	1
ARCA403015	H: 400 x W: 300 x D: 150mm	£68.65	1
ARCA403021	H: 400 x W: 300 x D: 210mm	£73.02	1
ARCA504021	H: 500 x W: 400 x D: 210mm	£89.70	1
ARCA604021	H: 600 x W: 400 x D: 210mm	£94.17	1
ARCA705030	H: 700 x W: 500 x D: 300mm	£162.89	1
ARCA806030	H: 800 x W: 600 x D: 300mm	£219.85	1

Accessories for ARCA IEC Cabinets

1 Din Rail Frame Set

Includes din rail frame, front plate, corner brackets & screws

Part Number	Description	Price	Per
DRSARCA302015	1 x 11 Modules (302015)	£36.19	1
DRSARCA403015	2 x 11 Modules (403015)	£47.39	1
DRSARCA403021	2 x 11 Modules (403021)	£47.39	1
DRSARCA504021	3 x 16 Modules (504021)	£61.23	1
DRSARCA604021	3 x 16 Modules (604021)	£64.01	1
DRSARCA705030	4 x 21 Modules (705030)	£74.10	1
DRSARCA806030	4 x 26 Modules (806030)	£95.29	1

2 Spare Galvanised Steel Mounting Plate

Part Number	Description	Price	Per
MPSARCA3020	Mounting Plate 300 x 200mm	£4.10	1
MPSARCA4030	Mounting Plate 400 x 300mm	£8.41	1
MPSARCA5040	Mounting Plate 500 x 400mm	£14.58	1
MPSARCA6040	Mounting Plate 600 x 400mm	£15.83	1
MPSARCA7050	Mounting Plate 700 x 500mm	£34.61	1
MPSARCA8060	Mounting Plate 800 x 600mm	£40.05	1

3 Galvanised Steel Inner Door Set

Part Number	Description	Price	Per
IDSARCA3020	Inner Door Set (302015)	£48.89	1
IDSARCA4030	Inner Door Set (403015-21)	£62.65	1
IDSARCA5040	Inner Door Set (504021)	£70.24	1
IDSARCA6040	Inner Door Set (604021)	£75.94	1
IDSARCA7050	Inner Door Set (705030)	£98.37	1
IDSARCA8060	Inner Door Set (806030)	£121.36	1

4 Key Lock (Complete System)

Part Number	Description	Price	Per
LISARCA1242E	Key Lock 1242E Key	£12.36	1
LISARCA405E	Key Lock 405E Key	£12.36	1
LISARCA455E	Key Lock 455E Key	£12.36	1
LISARCAV2432E	Key Lock V2432E Key	£12.36	1

5 Locking Inserts

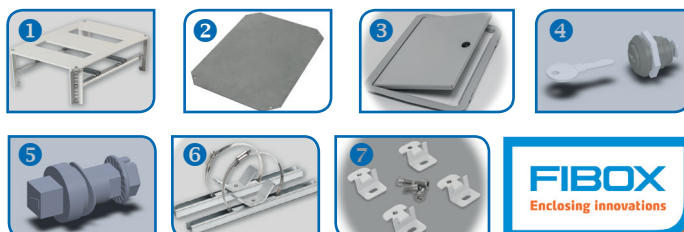
Part Number	Description	Price	Per
LISARCADB3	Locking Insert Double-bit 3mm	£1.17	1
LISARCAS7	Locking Insert Square 7mm	£1.17	1
LISARCAS8	Locking Insert Square 8mm	£1.17	1
LISARCAT8	Locking Insert Triangular 8mm	£1.17	1

6 Pole Mounting Kit

Part Number	Description	Price	Per
PMKARCA20	Pole Mounting Kit (302015)	£40.15	1
PMKARCA30	ARCA Pole Mounting Kit (203015 & 403015-21)	£40.81	1
PMKARCA40	Pole Mounting Kit (304015-21 & 504021 & 604021)	£41.99	1
PMKARCA50	Pole Mounting Kit (405021 & 705030)	£43.18	1
PMKARCA60	Pole Mounting Kit (406021 & 806030)	£43.65	1

7 Wall Mounting Lug Set

Part Number	Description	Price	Per
WMKARCA10	Wall Mounting Lug Set + 10mm Depth (SMALL 3020-6040)	£18.39	1
WMKARCA40	Wall Mounting Lug Set + 40mm Depth (SMALL 3020-6040)	£20.17	1



MNX Enclosures
Grey Lid with Knock-outs IP66 / 67

CE, EN 62208 & EN 60950

MNX polycarbonate: IP66 / IP67 / IK08

Glow wire flammability rating 960°C / Halogen Free

UV resistant to UL 508

Light grey: RAL 7035

Galvanised steel back plate to be ordered separately - See page 48

Part Number	Description	Price	Per
PCM95/75G	H: 100 x W: 100 x D: 75mm + KO Grey Lid	£12.48	1
PCM100/60G	H: 130 x W: 80 x D: 60mm + KO Grey Lid	£13.95	1
PCM100/75G	H: 130 x W: 80 x D: 75mm + KO Grey Lid	£13.65	1
PCM125/75G	H: 130 x W: 130 x D: 75mm + KO Grey Lid	£17.07	1
PCM125/100G	H: 130 x W: 130 x D: 100 + KO Grey Lid	£17.29	1
PCM150/60G	H: 180 x W: 130 x D: 60mm + KO Grey Lid	£19.68	1
PCM150/75G	H: 180 x W: 130 x D: 75mm + KO Grey Lid	£20.01	1
PCM150/100G	H: 180 x : 130 x D: 100mm + KO Grey Lid	£20.50	1
PCM150/150G	H: 180 x W: 130 x D: 150mm + KO Grey Lid	£26.28	1
PCM175/75G	H: 180 x W: 180 x D: 75mm + KO Grey Lid	£25.49	1
PCM175/150G	H: 180 x W: 180 x D: 150mm + KO Grey Lid	£34.55	1
PCM200/75G	H: 255 x W: 180 x D: 75mm + KO Grey Lid	£44.27	1
PCM200/100G	H: 255 x W: 180 x D: 100mm + KO Grey Lid	£44.41	1
PCM200/150G	H: 255 x W: 180 x D: 150mm + KO Grey Lid	£46.19	1
PCM200/125XG	H: 255 x W: 180 x D: 125mm Extra High Base + KO Grey Lid	£46.51	1
PCM200/175XG	H: 255 x W: 180 x D: 175mm Extra High Base + KO Grey Lid	£48.36	1

Grey Lid IP66 / 67

CE, EN 62208 & EN 60950

MNX polycarbonate: IP66 / IP67 / IK08

Glow wire flammability rating 960°C / Halogen Free

UV resistant to UL 508

Light grey: RAL 7035

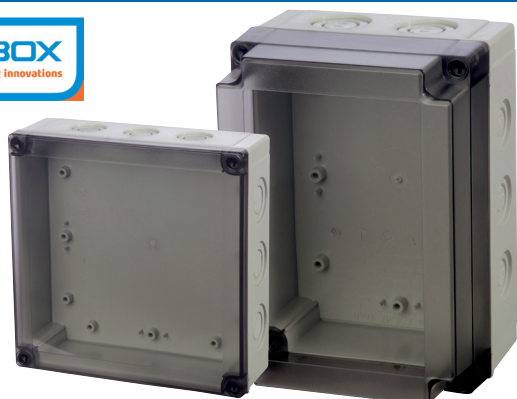
Galvanised steel back plate to be ordered separately - See page 48

Part Number	Description	Price	Per
PC100/35LG	H: 130 x W: 80 x D: 35mm Low Base Grey Lid	£13.02	1
PC95/60HG	H: 100 x W: 100 x D: 60mm High Base Grey Lid	£9.72	1
PC95/75HG	H: 100 x W: 100 x D: 75mm High Base Grey Lid	£9.92	1
PC100/75HG	H: 130 x W: 80 x D: 75mm High Base Grey Lid	£13.17	1
PC100/100HG	H: 130 x W: 80 x D: 100mm High Base Grey Lid	£13.80	1
PC100/125HG	H: 130 x W: 80 x D: 125mm High Base Grey Lid	£14.37	1
PC125/60HG	H: 130 x W: 130 x D: 60mm High Base Grey Lid	£16.00	1
PC150/60HG	H: 180 x W: 130 x D: 60mm High Base Grey Lid	£19.24	1
PC150/75HG	H: 180 x W: 130 x D: 75mm High Base Grey Lid	£19.41	1
PC150/100HG	H: 180 x W: 130 x D: 100mm High Base Grey Lid	£19.90	1
PC175/100HG	H: 180 x W: 180 x D: 100mm High Base Grey Lid	£25.22	1
PC150/125HG	H: 180 x W: 130 x D: 125mm High Base Grey Lid	£20.49	1
PC175/150HG	H: 180 x W: 180 x D: 150mm High Base Grey Lid	£33.36	1
PC200/100HG	H: 255 x W: 180 x D: 100mm High Base Grey Lid	£43.27	1
PC200/100XHG	H: 255 x W: 180 x W: 100mm Extra High Base Grey Lid	£44.68	1


 Please see page 87 for our
 Range of FIBOX MNX Polycarbonate

Contactor Enclosures

Smoked Transparent Lid with Knock-outs IP66 / 67



CE, EN 62208 & EN 60950

MX polycarbonate: IP66 / IP67 / IK08

Glow wire flammability rating 960°C / Halogen free

UV resistant to UL 508

Light grey base: RAL 7035

Transparent clear pc cover: Smoked grey

Galvanised steel back plate to be ordered separately - See page 48

Smoked Transparent Lid IP66 / 67



CE, EN 62208 & EN 60950

MX polycarbonate: IP66 / IP67 / IK08

Glow wire flammability rating 960°C / Halogen free

UV resistant to UL 508

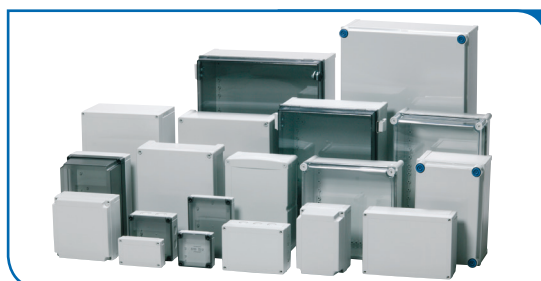
Light grey base: RAL 7035

Transparent clear PC cover: Smoked grey

Galvanised steel back plate to be ordered separately - See page 48

Part Number	Description	Price	Per
PCM100/75T	H: 130 x W: 80 x D: 75mm + KO Smoked Transparent Lid	£14.18	1
PCM125/75T	H: 130 x W: 130 x D: 75mm + KO Smoked Transparent Lid	£17.24	1
PCM150/60T	H: 180 x W: 130 x D: 60mm + KO Smoked Transparent Lid	£19.80	1
PCM150/75T	H: 180 x W: 130 x D: 75mm + KO Smoked Transparent Lid	£20.08	1
PCM150/100T	H: 180 x W: 130 x D: 100mm + KO Smoked Transparent Lid	£20.63	1
PCM150/150T	H: 180 x W: 130 x D: 150mm + KO Smoked Transparent Lid	£26.71	1
PCM175/150T	H: 180 x W: 180 D: 150mm + KO Smoked Transparent Lid	£35.49	1
PCM200/75T	H: 255 x W: 180 x D: 75mm + KO Smoked Transparent Lid	£44.81	1
PCM200/100T	H: 255 x W: 180 x D: 100mm + KO Smoked Transparent Lid	£45.15	1
PCM200/150T	H: 255 x W: 180 x D: 150mm + KO Smoked Transparent Lid	£47.31	1
PCM200/125XT	H: 255 x W: 180 x D: 125mm Extra High Base + KO Smoked Transparent Lid	£47.27	1
PCM200/175XT	H: 255 x W: 180 x D: 175mm Extra High Base + KO Smoked Transparent Lid	£49.41	1

Part Number	Description	Price	Per
PC100/35LT	H: 130 x W: 80 x D: 35mm Low Base Smoked Transparent Lid	£13.13	1
PC125/100HT	H: 130 x W: 130 x D: 100 High Base Smoked Transparent Lid	£14.44	1
PC150/100HT	H: 180 x W: 130 x D: 100mm High Base Smoked Transparent Lid	£20.02	1
PC150/150HT	H: 180 x W: 130 x D: 150mm High Base Smoked Transparent Lid	£25.83	1
PC175/75HT	H: 180 x W: 180 x D: 75mm High Base Smoked Transparent Lid	£24.67	1
PC175/150HT	H: 180 x W: 180 x D: 150mm High Base Smoked Transparent Lid	£34.29	1
PC200/75HT	H: 255 x W: 180 x D: 75mm High Base Smoked Transparent Lid	£43.04	1
PC200/100HT	H: 255 x W: 180 x D: 100mm High Base Smoked Transparent Lid	£43.79	1
PC200/175XHT	H: 255 x W: 180 x D: 175mm Extra High Base Smoked Transparent Lid	£47.72	1

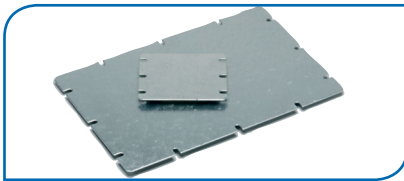


The entire range of **FIBOX** enclosures and accessories

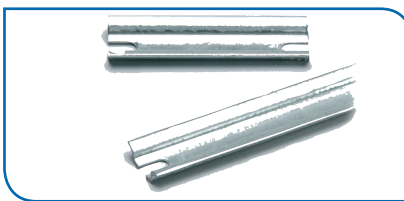
are available from **Europa Components**,

please contact our sales department for availability.



Accessories for MNX Enclosures
Steel Mounting Plate


Part Number	Description	Price	Per
MIV95	H: 100 x W: 100mm	£1.55	1
MIV100	H: 130 x W: 80mm	£1.77	1
MIV125	H: 130 x W: 130mm	£2.23	1
MIV150	H: 180 x W: 130mm	£2.59	1
MIV175	H: 180 x W: 180mm	£3.11	1
MIV200	H: 255 x W: 180mm	£4.18	1

Steel 35mm Top Hat Din Rail


Part Number	Description	Price	Per
MIV5	50mm in Length	£1.87	1
MIV10	100mm in Length	£2.12	1
MIV15	150mm in Length	£2.61	1
MIV20	225mm in Length	£2.93	1

Hinges and Wall Mounting Accessories


Part Number	Description	Price	Per
① THA	Grey Plastic Hinge Set (2pcs) Incl. Mounting Screws	£5.75	1
② FP22046	Wall Fastening Lug Set (4pcs) Incl. Screws	£1.51	1

Spare Cover Screws


Part Number	Description	Price	Per
SS14551H	For 25 - 100mm Covers Grey	£0.14	1

MNX technical information

Property	Polycarbonate (PC)
Ingress Protection (EN 60529)	IP66 / IP67
Impact Resistance (EN 62262)	IK 08
Temperature Range Celsius (short term) Fahrenheit	-40°...120°C -40°...250°F
Temperature Range Celsius (continuous) Fahrenheit	-40°...80°C -40°...175°F
Electrical Insulation	Totally insulated
Light Grey Parts Colour	RAL 7035 Industry Grey
Transparent Clear PC Cover	Smoked Grey
Cover Screws	Black or Grey
Cover Screws	Polyamide (PA)
Gasket	TPE / PUR
Enclosure Flammability	UL746C 5V*
Glow Wire Test (IEC 695-2-1) Self -extinguishing (PC)	960°C
Non-toxicity	Halogen Free
Chemical Resistance	Good
UV resistance	UL 508 720 hours in "Weatherometer"

Conformity to Standards
USA

Enclosures for Electrical Equipment
 PC: UL Type 1, 4, 4X, 6 (12 or 13); UL File E75645 Vol 1 Sec 7;
 UL746C-5VA flame test (UL50/508)*
 ABS: NEMA 1, 4, 4X, 6 (12 or 13)

Canada

Industrial Control Equipment Enclosures for Electrical Equipment / ULc*

Europe

Empty enclosures for low-voltage switchgear and control gear assemblies EN 62208: 2003
 Europe Safety of information Technology Equipment EN 60950 RoHS directive 2002/95/EC

Russia

GostR - Gost Russian certificate of conformity

*UL label on request

Insulated Adaptable Boxes

Insulated Adaptable Boxes (IP67)



IP67 rated ABS boxes / Quick turn screws / Hinged lid
Mounting plate (PBM) to be ordered separately

Part Number	Description	Price	Per
PB520158	IK10 H: 200 x W: 155 x D: 80mm	£10.02	1
PB5201514	IK10 H: 200 x W: 155 x D: 140mm	£18.50	1
PB526219	IK10 H: 260 x W: 210 x D: 95mm	£15.48	1
PB5262116	IK10 H: 260 x W: 210 x D: 160mm	£27.14	1
PB5322413	IK10 H: 320 x W: 240 x D: 135mm	£24.54	1
PB5322418	IK10 H: 320 x W: 240 x D: 180mm	£39.49	1
PB5403013	IK10 H: 400 x W: 300 x D: 135mm	£40.97	1
PB520158C	IK10 H: 200 x W: 155 x D: 80mm (Clear Lid)	£16.17	1
PB5201514C	IK10 H: 200 x W: 155 x D: 140mm (Clear Lid)	£31.01	1
PB526219C	IK10 H: 260 x W: 210 x D: 95mm (Clear Lid)	£21.62	1
PB5262116C	IK10 H: 260 x W: 210 x D: 160mm (Clear Lid)	£37.90	1
PB5322413C	IK10 H: 320 x W: 240 x D: 135mm (Clear Lid)	£30.21	1
PB5322418C	IK10 H: 320 x W: 240 x D: 180mm (Clear Lid)	£52.10	1
PB5403013C	IK10 H: 400 x W: 300 x D: 135mm (Clear Lid)	£56.71	1
PBM2015	Mounting Plate 200 x 155mm	£5.50	1
PBM2621	Mounting Plate 260 x 210mm	£7.40	1
PBM3224	Mounting Plate 320 x 240mm	£9.40	1
PBM4030	Mounting Plate 400 x 300mm	£15.30	1

listed in
LUCKINslive™

Insulated ABS Plastic Enclosures

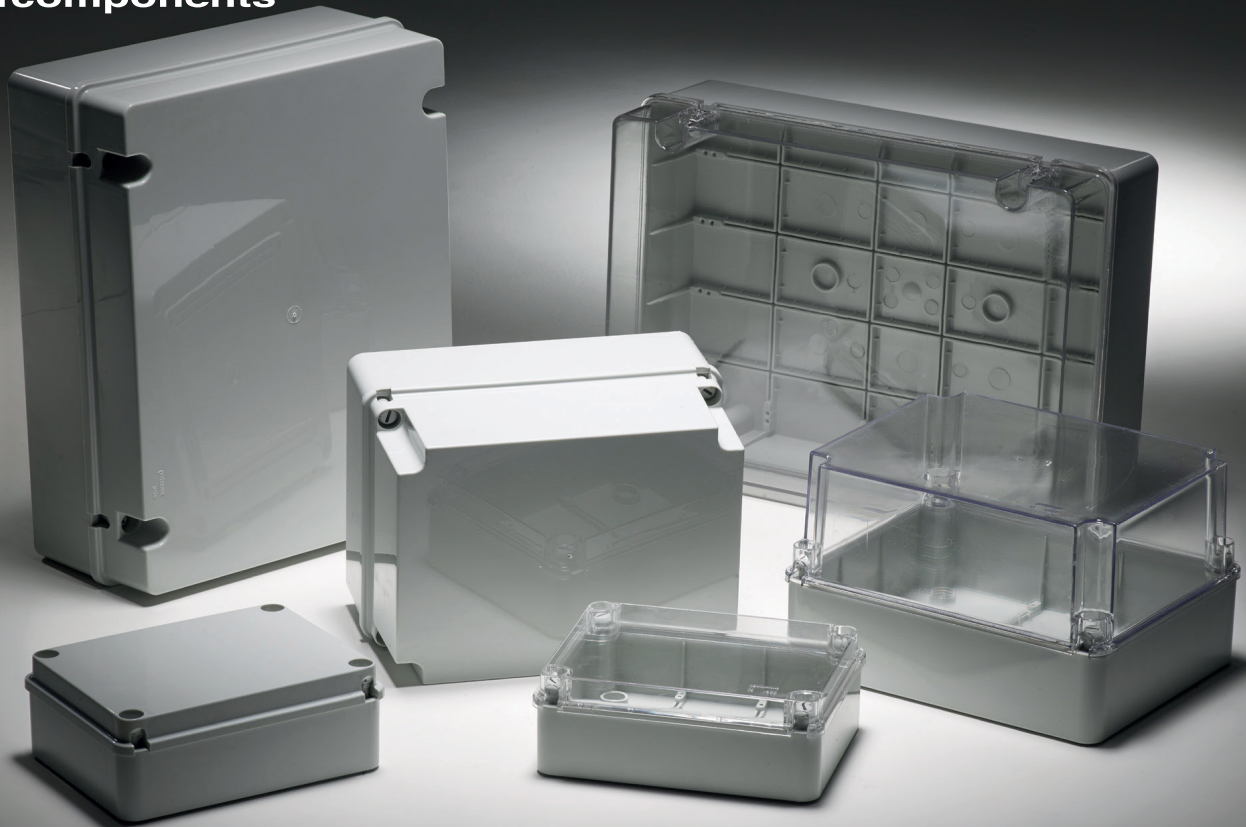
Insulated ABS Plastic Enclosures (IP65)



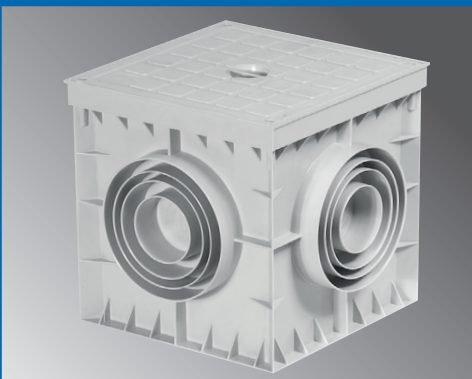
RAL: 7035 / Strong ABS enclosure

Back plate and fixing brackets included / See page 156 for dimensions

Part Number	Description	Price	Per
PBE2821013	IK10 H: 280 x W: 210 x D: 130mm	£39.74	1
PBE332513	IK10 H: 330 x W: 250 x D: 130mm	£45.41	1
PBE4030016	IK10 H: 400 x W: 300 x D: 165mm	£54.22	1
PBE403019	IK10 H: 400 x W: 300 x D: 195mm	£65.03	1
PBE503519	IK09 H: 500 x W: 350 x D: 195mm	£77.71	1
PBE504017	IK09 H: 500 x W: 400 x D: 175mm	£76.69	1
PBE604020	IK09 H: 600 x W: 400 x D: 200mm	£93.07	1
PBE605022	IK09 H: 600 x W: 500 x D: 220mm	£162.43	1
PBE705024	IK09 H: 700 x W: 500 x D: 245mm	£220.12	1
PBE806026	IK09 H: 800 x W: 600 x D: 260mm	£291.34	1
PBE2821013C	IK10 H: 280 x W: 210 x D: 130mm Clear Door	£51.72	1
PBE332513C	IK10 H: 330 x W: 250 x D: 130mm Clear Door	£59.29	1
PBE403016C	IK10 H: 400 x W: 300 x D: 165mm Clear Door	£65.72	1
PBE403019C	IK10 H: 400 x W: 300 x D: 195mm Clear Door	£84.51	1
PBE604020C	IK09 H: 600 x W: 400 x D: 200mm Clear Door	£126.14	1
PBE503519C	IK09 H: 500 x W: 350 x D: 195mm Clear Door	£111.00	1
PBE605022C	IK09 H: 600 x W: 500 x D: 220mm Clear Door	£227.05	1
PBE504017C	IK09 H: 500 x W: 400 x D: 175mm Clear Door	£113.53	1
PBE705024C	IK09 H: 700 x W: 500 x D: 245mm Clear Door	£315.35	1
PBE806026C	IK09 H: 800 x W: 600 x D: 260mm Clear Door	£378.42	1
PBEKEY010	PBE Spare Key	£3.95	1
PBEKEYLOCK	PBE Key Lock (for enclosures from Sept 2015)	£10.35	1



A wider selection of enclosure types are available from Europa Components. If you can't see what you need in the catalogue please speak to our sales or technical department to see how we can help...



E-mail: sales@europacomponents.com

Call the sales office: 01582 692 440 Technical direct line: 01582 692 444

Enclosure Accessories Thermal Management

Filters and Fans with Housing (IP55)



Fan voltage: 230V AC
Low maintenance / High air flow filters and fans / Easy to install
UV resistant / UL94V-0 material.

Part Number	Description	Price	Per
1 TM-FF01897	Fan & Filter with Housing 134 x 129mm	£37.10	1
1 TM-FF018125	Fan & Filter with Housing 170 x 157mm	£48.00	1
1 TM-FF018176	Fan & Filter with Housing 226 x 209mm	£57.88	1
2 TM-EF01897	Filter with Housing 134 x 129mm	£18.83	1
2 TM-EF018125	Filter with Housing 170 x 157mm	£22.39	1
2 TM-EF018176	Filter with Housing 226 x 209mm	£27.35	1

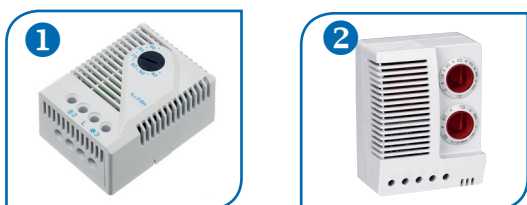
Thermostats (Din Rail Mounting)



AC1 Rating: 250V AC 10A / Temperature: 0-60°C

Part Number	Description	Price	Per
1 TM-KTS011	Thermostat 0-60°C N/O Used for Cooling	£14.63	1
2 TM-KTO011	Thermostat 0-60°C N/C Used for Heating	£14.63	1
3 TM-ZR011	Dual Thermostat 0-60°C N/O - N/C Used for both Cooling & Heating	£16.83	1

Hygrostat and Hygrotherm



Adjustable relative humidity / AC1 Rating: 250V AC 5A

Part Number	Description	Price	Per
1 TM-MFR012	Hygrostat 39 - 95% Relative Humidity	£37.99	1
2 TM-ETF012	Hygrotherm 0-60°C 35 - 95% Relative Humidity	£88.51	1

Enclosure Heaters



Din rail mounting / Continuous rated
Semi-conductor heater to prevent condensation and protect against low temperatures. The aluminium profile heater body is designed to facilitate maximum convection to distribute the heat evenly.
Spring clamp terminal for ease of wiring.

Part Number	Description	Price	Per
TM-HG140-15W	Anti-Condensation Heater 120 - 240V 15W	£18.85	1
TM-HG140-30W	Anti-Condensation Heater 120 - 240V 30W	£19.79	1
TM-HG140-60W	Anti-Condensation Heater 120 - 240V 60W	£28.27	1
TM-HG140-100W	Anti-Condensation Heater 120 - 240V 100W	£30.62	1
TM-HG140-150W	Anti-Condensation Heater 120 - 240V 150W	£40.05	1

Enclosure Inspection Windows

Inspection Windows (IP67)



Polycarbonate weatherproof inspection windows rated to IP67 when fitted correctly. Complete with fixing bracket and din rail to take standard modular components such as MCBs, fuse holders and time clocks.

Part Number	Description	Price	Per
IW4M	4 Module	£17.59	1
IW6M	6 Module	£19.76	1
IW8M	8 Module	£20.97	1
IW12M	12 Module	£23.38	1

Junction Boxes & Cable Accessories
Insulated Junction Boxes

IP55 Rated Junction Boxes



VDE Approved
Thermoplastic boxes (Terminals not included)
Halogen free / IEC 60998
Snap-on-lid
Suited to restricted spaces
External fixings

Part Number	Description	Price	Per
JB25	H: 89 x W: 43 x D: 37mm	£1.88	1
JBSD7	H: 75 x W: 75 x D: 37mm	£1.37	1

IP65 Rated Junction Boxes



VDE Approved
Thermoplastic boxes (Including terminal strip)
Halogen free
IEC 60998
M20 cable entries / Soft sealing membrane

Part Number	Description	Price	Per
JBAB025	H: 80 x W: 80 x D: 52mm 2.5 - 4mm (5 Terminals)	£6.44	1
JBAB040	H: 93 x W: 93 x D: 55mm 2.5 - 4mm (5 Terminals)	£7.67	1
JBAB060	H: 110 x W: 110 x D: 67mm 6mm (5 Terminals)	£15.75	1

Secure Online Ordering
www.europacomponents.com

IP54 / IP55 Rated Junction Boxes



Thermoplastic enclosures (Terminals not included)
Halogen free

Part Number	Description	Price	Per
PB5757540	IP54 Rated 80 x 80 x 40mm	£1.59	1
PB5858545	IP54 Rated 85 x 85 x 45mm	£1.75	1
PB510010050	IP54 Rated 100 x 100 x 55mm	£1.95	1
PB570D	IP55 Rated 70mm Diameter x 40mm	£1.59	1
PB590D	IP55 Rated 90mm Diameter x 45mm	£1.59	1
PB5757545EM	IP55 Rated H: 75 x W: 75 x D: 45mm (with elastic membrane)	£4.01	1
PB5909055EM	IP55 Rated H: 90 x W: 90 x D: 55mm (with elastic membrane)	£5.32	1

IP67 Rated Junction Boxes



Thermoplastic enclosures (Terminals not included)
Halogen free

Part Number	Description	Price	Per
PB6757540	H: 75 x W: 75 x D: 50mm	£2.34	1
PB6858545	H: 85 x W: 85 x D: 55mm	£2.33	1
PB690D	90mm Diameter x D: 55mm	£2.44	1
PB610010050	H: 100 x W: 100 x D: 60mm	£2.39	1
PB611011070	H: 110 x W: 110 D: x 70mm	£4.03	1
PB6110110110	H: 110 x W: 110 x D: 110mm	£8.52	1
PB6110D	H: 110 x W: 110 x D: 110mm with Din Rail	£17.91	1

NB: The PB6110110110 is an ideal size for housing power & control relays (see pages 110-117). Din rail sold separately (see page 121).

Industrial and Hazardous Area Products

Pre-Assembled GRP ATEX Enclosures IP66



Available in 3 sizes & terminal configurations. All sizes meet the Ex e "Increased Safety", requirements of EN60079 - 0 & EN60079 - 7 standards, and are suitable for installation in hazardous area zones 1 & 2 (Ref. Gas) and Zone 21 and 22 (Ref. Dust).

With factory fitted terminal blocks, stainless steel screws, internal earth continuity plate, M6 earthing stud, 2 x 4mm² earth terminals, certified stopping plugs.

Machined cable entries: 4 x M20 CEP12/16 & 10 x M20 CEP26

Supplied with fully compliant ATEX certification labelling for an assured Ex installation (Copies of the SIRA Certificate available for download at www.europacomponents.com).

Part Number	Description	Price	Per
CEP121290PA	Black GRP ATEX Enclosure + 10 x 2.5mm Terminals	£82.13	1
CEP161690PA	Black GRP ATEX Enclosure + 15 x 2.5mm Terminals	£104.56	1
CEP261690PA	Black GRP ATEX Enclosure + 26 x 2.5mm Terminals	£163.62	1

ATEX Cable Glands IP66 / 68



Part Number	Description	Price	Per
85080520X3	M20 IP66/68 Polyamide ATEX Cable Gland Black 7 - 12mm	£1.71	1
85080522X3	M20 IP66/68 Polyamide ATEX Cable Gland Black 11 - 14mm	£1.71	1
KBA1SM20S	M20 IP66/68 Metal ATEX Cable Gland 3 - 8.5mm Inner & 6 - 12mm Outer Armour	£15.22	1
KBA1M20S	M20 IP66/68 Metal ATEX Cable Gland 6 - 12mm Inner & 8.5 - 16mm Outer Armour	£18.29	1
KBA1LM20S	M20 IP66/68 Metal ATEX Cable Gland 12 - 14.5mm Inner & 16 - 20mm Outer Armour	£20.10	1

Terminal Strip Enclosure

E-Box Terminal Strip Enclosure (Sold in packs of 20)



The E-Box terminal strip enclosures have a unique design exclusive to Europa Components with the following features:

30A max current

Suitable for all sizes of Europa 12 way terminal blocks

Cable clamp suitable from 1.5mm² to 4mm² including 2 x 2.5mm cable

Fixing lugs for secure fixing

Unique top securing lid for easy inspection of terminals

Part Number	Description	Price	Per
1 ECT010	Polyethylene (PE) 30A	£1.06	1
2 ECT010PP	Polypropylene (PP) 30A	£1.23	1

12 Way Terminal Blocks

PE 12 Way Terminal Blocks (Sold in packs of 10)



Polyethylene 12 way U blocks

Part Number	Description	Price	Per
TBU03PE	3A PE 12 Way	£3.49	Pack
TBU06PE	6A PE 12 Way	£3.99	Pack
TBU10PE	10A PE 12 Way	£5.48	Pack
TBU16PE	16A PE 12 Way	£7.27	Pack
TBU20PE	20A PE 12 Way	£7.97	Pack
TBU30PE	30A PE 12 Way	£11.45	Pack
TBU60PE	60A PE 12 Way	£23.85	Pack

PP 12 Way Terminal Blocks (Sold in packs of 10)



Polypropylene 12 way U blocks / Flame retardant material

Part Number	Description	Price	Per
TBU03PP	3A PP 12 Way	£3.78	Pack
TBU06PP	6A PP 12 Way	£4.48	Pack
TBU10PP	10A PP 12 Way	£6.28	Pack
TBU16PP	16A PP 12 Way	£8.77	Pack
TBU20PP	20A PP 12 Way	£9.47	Pack
TBU30PP	30A PP 12 Way	£13.78	Pack
TBU60PP	60A PP 12 Way	£28.62	Pack

Insulated Cable Glands

PG Cable Glands

(Pack of 10)



CE Certified

IP65 rated / Manufactured from nylon / Low smoke / Halogen free
Locking nut included

Dynamic state -20°C to +80°C, intermittent to +100°C

Part Number	Description	Price	Per
PG7DG	● PG7 Grey 3-6.5mm	£4.23	Pack
PG9DB	● PG9 Black 4-8mm	£5.25	Pack
PG9DG	● PG9 Grey 4-8mm	£5.25	Pack
PG9DW	○ PG9 White 4-8mm	£5.25	Pack
PG11DG	● PG11 Grey 5-10mm	£5.89	Pack
PG13.5DB	● PG13.5 Black 6-12mm	£5.89	Pack
PG13.5DG	● PG13.5 Grey 6-12mm	£5.89	Pack
PG13.5DW	○ PG13.5 White 6-12mm	£5.89	Pack
PG16DB	● PG16 Black 10-14mm	£7.43	Pack
PG16DG	● PG16 Grey 10-14mm	£7.43	Pack
PG16DW	○ PG16 White 10-14mm	£7.43	Pack
PG21DB	● PG21 Black 13-18mm	£9.81	Pack
PG21DG	● PG21 Grey 13-18mm	£9.81	Pack
PG21DW	○ PG21 White 13-18mm	£9.81	Pack
PG29DG	● PG29 Grey 18-25mm	£17.84	Pack

PG Cable Glands

Cable Gland Dimensions	Gland Size	Dimension GL (mm)	Dimension H (mm)
	M16	8	26
	M20	9	28
	M25	10	35
	M32	11	34
	M40	14	48
	M50	14	48
	M63	15	48
	PG7	8	22
	PG9	8	26
	PG11	8	27
	PG13.5	9	28
	PG16	10	30
	PG21	10	35
PG29	12	40	

Metric Cable Glands

(Pack of 10)



CE Certified

IP68 rated (With neoprene washer sold separately - see page 55)
Manufactured from nylon / Low smoke / Halogen free
Locking nut included

Dynamic state -20°C to +80°C, intermittent to +100°C

Part Number	Description	Price	Per
M12DG	● M12 Grey 3-6.5mm	£3.50	Pack
M12DB	● M12 Black 3-6.5mm	£3.50	Pack
M16DB	● M16 Black 4-8mm	£4.13	Pack
M16DBL	● M16 Black (Large) 5-10mm	£6.36	Pack
M16DG	● M16 Grey 4-8mm	£4.13	Pack
M16DR	● M16 Red 4-8mm	£4.13	Pack
M16DW	○ M16 White 4-8mm	£4.13	Pack
M16DWL	○ M16 White (Large) 5-10mm	£6.36	Pack
M20DB	● M20 Black 6-12mm	£4.81	Pack
M20DBL	● M20 Black (Large) 10-14mm	£8.81	Pack
M20DBS	● M20 Black (Small) 5-9mm	£4.63	Pack
M20DG	● M20 Grey 6-12mm	£4.63	Pack
M20DGL	● M20 Grey (Large) 10-14mm	£8.49	Pack
M20DGS	● M20 Grey (Small) 5-9mm	£4.63	Pack
M20DR	● M20 Red 6-12mm	£5.03	Pack
M20DRL	● M20 Red (Large) 10-14mm	£8.49	Pack
M20DRS	● M20 Red (Small) 5-9mm	£4.63	Pack
M20DW	○ M20 White 6-12mm	£4.81	Pack
M20DWL	○ M20 White (Large) 10-14mm	£8.81	Pack
M20DWS	○ M20 White (Small) 5-9mm	£4.63	Pack
M25DB	● M25 Black 13-18mm	£8.81	Pack
M25DBS	● M25 Black (Small) 9-16mm	£8.49	Pack
M25DG	● M25 Grey 13-18mm	£8.49	Pack
M25DGS	● M25 Grey (Small) 9-16mm	£8.49	Pack
M25DR	● M25 Red 13-18mm	£8.49	Pack
M25DRS	● M25 Red (Small) 9-16mm	£8.49	Pack
M25DW	○ M25 White 13-18mm	£8.49	Pack
M25DWS	○ M25 White (Small) 9-16mm	£8.49	Pack
M32DB	● M32 Black 14-21mm	£10.98	Pack
M32DG	● M32 Grey 14-21mm	£10.98	Pack
M32DR	● M32 Red 14-21mm	£10.98	Pack
M32DW	○ M32 White 14-21mm	£10.98	Pack
M40DB	● M40 Black 22-32mm	£42.69	Pack
M40DBS	● M40 Black (Small) 18-28mm	£42.69	Pack
M40DG	● M40 Grey 22-32mm	£42.69	Pack
M40DGS	● M40 Grey (Small) 18-28mm	£42.69	Pack
M40DW	○ M40 White 22-32mm	£42.69	Pack
M40DWS	○ M40 White (Small) 18-28mm	£42.69	Pack
M50DB	● M50 Black 32-38mm	£71.80	Pack
M50DG	● M50 Grey 32-38mm	£71.80	Pack
M50DW	○ M50 White 32-38mm	£71.80	Pack
M63DB	● M63 Black 37-44mm	£82.40	Pack

Cable Gland Accessories

Blanking Plugs

(Pack of 10)



CE Certified

IP68 rated (With neoprene washer sold separately)

Temperature range: -20°C to +80°C, intermittent 100°C

Manufactured from nylon / Halogen free

Colours: RAL 7035 (Light grey) / RAL 9005 (Jet black)



Part Number	Description	Price	Per
M12BPB	M12 Blanking Plug Black	£4.77	Pack
M12BPG	M12 Blanking Plug Grey	£4.77	Pack
M16BPB	M16 Blanking Plug Black	£5.04	Pack
M16BPG	M16 Blanking Plug Grey	£5.04	Pack
M20BPB	M20 Blanking Plug Black	£5.30	Pack
M20BPG	M20 Blanking Plug Grey	£5.30	Pack
M25BPB	M25 Blanking Plug Black	£5.83	Pack
M25BPG	M25 Blanking Plug Grey	£5.83	Pack
M32BPB	M32 Blanking Plug Black	£11.40	Pack
M32BPG	M32 Blanking Plug Grey	£11.40	Pack
M40BPB	M40 Blanking Plug Black	£19.08	Pack
M40BPG	M40 Blanking Plug Grey	£19.08	Pack
PG16BPG	PG16 Blanking Plug Grey	£9.54	Pack
PG21BPG	PG21 Blanking Plug Grey	£9.54	Pack

PG to Metric Adaptors

(Pack of 10)



IP68 rated (With neoprene washer sold separately)

Temperature range: -20°C to +80°C, intermittent +100°C

Manufactured from nylon / Halogen free / RAL 7035 (Light grey)

Locking nut not included / PG male to metric female



Part Number	Description	Price	Per
PG7-M12AG	PG7 to M12 Adaptor Grey	£16.96	Pack
PG9-M16AG	PG9 to M16 Adaptor Grey	£18.55	Pack
PG11-M20AG	PG11 to M20 Adaptor Grey	£20.14	Pack
PG13.5-M20AG	PG13.5 to M20 Adaptor Grey	£22.26	Pack
PG16-M25AG	PG16 to M25 Adaptor Grey	£22.79	Pack
PG21-M25AG	PG21 to M25 Adaptor Grey	£25.97	Pack
PG29-M40AG	PG29 to M40 Adaptor Grey	£36.04	Pack

Neoprene Washers for Europa Metric Cable Glands (Pack of 100)



Use to guarantee an IP68 degree of protection.

Part Number	Description	Price	Per
M16W	M16 Rubber Washer	£6.15	Pack
M20W	M20 Rubber Washer	£6.15	Pack
M25W	M25 Rubber Washer	£7.63	Pack
M32W	M32 Rubber Washer	£7.16	Pack
M40W	M40 Rubber Washer	£16.50	Pack
M50W	M50 Rubber Washer	£25.60	Pack

PVC Tape

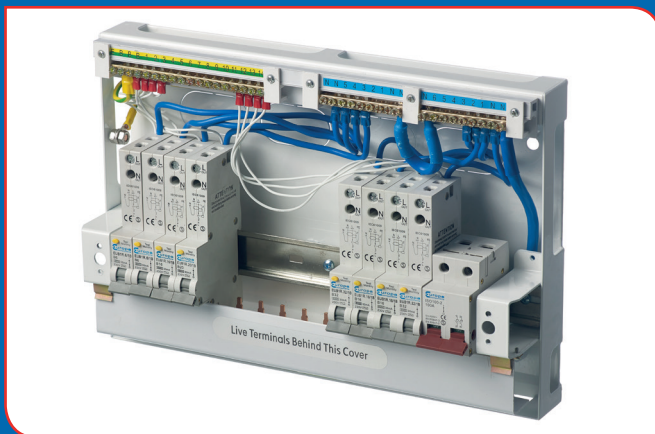
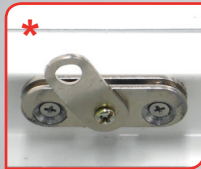
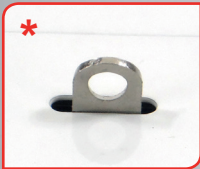
(Sold in packs of 20 rolls)



Thickness: 0.13mm / Tensile strength: 20 N/cm / Elongation: 200%
Adhesion strength: 1.5 N/cm / Maximum operating temperature: 80°C

Part Number	Description	Price	Per
PVCT20BLK	Black 19mm x 20m	£39.60	Pack
PVCT20RED	Red 19mm x 20m	£39.60	Pack
PVCT20BLU	Blue 19mm x 20m	£39.60	Pack
PVCT20GRY	Grey 19mm x 20m	£39.60	Pack
PVCT20WHT	White 19mm x 20m	£39.60	Pack
PVCT20BRN	Brown 19mm x 20m	£39.60	Pack
PVCT20G/Y	Green & Yellow 19mm x 20m	£39.60	Pack
PVCT33BLK	Black 19mm x 33m	£63.60	Pack
PVCT33RED	Red 19mm x 33m	£63.60	Pack
PVCT33BLU	Blue 19mm x 33m	£63.60	Pack
PVCT33GRY	Grey 19mm x 33m	£63.60	Pack
PVCT33WHT	White 19mm x 33m	£63.60	Pack
PVCT33BRN	Brown 19mm x 33m	£63.60	Pack
PVCT33G/Y	Green & Yellow 19mm x 33m	£63.60	Pack

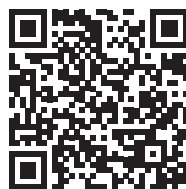
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LUCKINSlive™



The Europa Components E-Line range of **Amendment 3 Compliant** consumer units have been aesthetically designed for installations where the consumer unit is fitted in a prominent position. This works especially well when the consumer unit has to be mounted 1.35 - 1.45m high (where **Part M** of the building regulations apply to new installations).

Features Include:

- Rear open frame design for ease of wiring
- Additional room for RCBO's
- Full metal DIN rail for rigid mounting of devices
- All internal connections made with flexible 16mm² cable
- Spirit level in the base ensures that the consumer unit is level when installed
- Rear mounting feet to assist in fixing to uneven walls
- Magnetic latch to hold the door securely shut
- Padlock feature * to prevent the door from being opened when installing and testing the installation
- Supplied with pre-moulded grommets
- Larger cable ducting can be run along all 4 sides
- Enclosure manufactured from non combustible steel
- Epoxy powder coated low smoke & fume paint



Scan to view the video with features and benefits of our **Amendment 3 Compliant E-Line range** of Metal Clad Consumer Units

Distribution Equipment & Circuit Protection Metal Clad Consumer Units

E-Line 3rd Amendment Fully Populated



CE & SEMKO Certified Devices

All RCD's 30mA
IP40 rating / Earth and neutral busbars included
Drop down padlockable lid with magnetic latch
Rear open frame enclosure for easy wiring

Part Number	Description	Price	Per
ELCU16SP17/80FL01	16 Module 100A Sw. + 2 x 80A RCD + 8 MCB's (6 - 40A) & 2 Blanks	£141.85	1
ELCU16SP17/80FL02	16 Module 100A Sw. + 2 x 80A RCD + 10 MCB's (6 - 40A)	£148.84	1
ELCU16SP17/80FL03	16 Module 100A Sw. + 2 x 80A RCD + 10 MCB's (6 - 32A)	£148.84	1
ELCU20SP17/80FL01	20 Module 100A Sw. + 2 x 80A RCD + 12 MCB's (6 - 40A) & 2 Blanks	£162.80	1

E-Line 3rd Amendment 17th Edition Box Qty 4



BS 7671, CE & SEMKO Certified Devices

IP40 rating / Earth and neutral busbars included
Drop down padlockable lid with magnetic latch
Rear open frame enclosure for easy wiring

Part Number	Description	Price	Per
ELCU16SP17/80	16 Module 10 Free Ways 100A Switch + 2 x 80A RCD	£107.50	1
ELCU20SP17/80	20 Module 14 Free Ways 100A Switch + 2 x 80A RCD	£117.00	1
ELCU20SP17/80-SPD	20 Module 12 Free Ways 100A Switch + 2 x 80A RCD + SPD with MCB	£160.00	1

E-Line 3rd Amendment Switched Incomer Box Qty 4

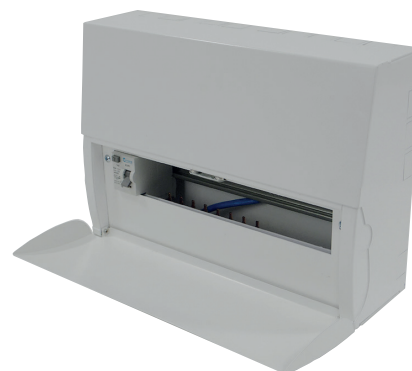


CE & SEMKO Certified Devices

IP40 rating / Earth and neutral busbars included
Drop down padlockable lid with magnetic latch
Rear open frame enclosure for easy wiring

Part Number	Description	Price	Per
ELCU16M	16 Module 100A Switch 14 Free Ways	£70.00	1
ELCU20M	16 Module 100A Switch 18 Free Ways	£76.00	1
ELCU20M-SPD	20 Module 100A Switch + SPD with MCB 16 Free Ways	£110.00	1

E-Line 3rd Amendment RCCB Incomer Box Qty 4



CE & SEMKO Certified Devices

IP40 rating / Earth and neutral busbars included
Fitted with 30mA RCD's
Drop down padlockable lid with magnetic latch
Rear open frame enclosure for easy wiring

Part Number	Description	Price	Per
ELCU16R	80A RCD 14 Free Ways	£85.00	1
ELCU20R	80A RCD 18 Free Ways	£92.00	1

E-Line Consumer Unit Dimensions (mm)

Type	Height	Width	Depth
ELCU16	249mm	365mm	107mm
ELCU20	249mm	437mm	107mm

E-Line 3rd Amendment Split Load Box Qty 4



CE & SEMKO Certified Devices

IP40 rating / Earth and neutral busbars included
Drop down padlockable lid with magnetic latch
Rear open frame enclosure for easy wiring

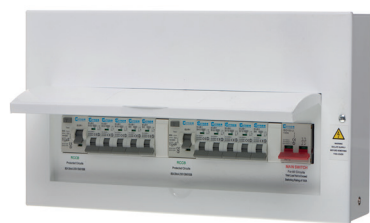
Part Number	Description	Price	Per
ELCU16SP	100A Switch + 80A RCD 6 + 6 Split	£100.00	1
ELCU20SP	100A Switch + 80A RCD 8 + 8 Split	£110.00	1
ELCU20SP-SPD	100A Switch + 80A RCD + SPD with MCB 7 + 7 Split	£135.00	1

E-Line Accessories



Part Number	Description	Price	Per
EUBPADLOCK	Padlock (3 per pack)	£10.40	Pack
ELCUGROMMET010	Spare Back Entry Grommet	£2.07	1

Metal Clad Fully Populated



CE & SEMKO Certified Devices

IP40 rating / Earth & neutral terminal bars included
Lift up stay put lid / Large enclosure for easy wiring

Part Number	Description	Price	Per
MECU14SP17/80FL01	14 Module 100A Sw. + 2 x 80A RCD + 8 MCB's (6 - 40A)	£130.24	1
MECU18SP17/80FL01	18 Module 100A Sw. + 2 x 80A RCD + 10 MCB's (6 - 40A) & 2 Blanks	£147.68	1
MECU18SP17/80FL02	18 Module 100A Sw. + 2 x 80A RCD + 12 MCB's (6 - 40A)	£153.48	1

Metal Clad 17th Edition (BS 7671) Box Qty 4



BS 7671, CE & SEMKO Certified Devices

IP40 rating / Earth & neutral terminal bars included
Lift up stay put lid / Large enclosure for easy wiring

Part Number	Description	Price	Per
MECU14SP17/80	14 Module 8 Free Ways 100A Switch + 2 x 80A RCD	£100.00	1
MECU18SP17/80	18 Module 12 Free Ways 100A Switch + 2 x 80A RCD	£115.00	1

Metal Clad Switched Incomer Box Qty 6 (4 for 14M)



CE & SEMKO Certified Devices

IP40 rating / Earth & neutral terminal bars included
Lift up stay put lid / Large enclosure for easy wiring

Part Number	Description	Price	Per
MECU8M	100A Switch 6 Free Ways	£48.75	1
MECU10M	100A Switch 8 Free Ways	£55.50	1
MECU14M	100A Switch 12 Free Ways	£60.00	1

Metal Clad RCCB Incomer Box Qty 6



CE & SEMKO Certified Devices

IP40 rating / Earth & neutral terminal bars included
Lift up stay put lid / Large enclosure for easy wiring

Part Number	Description	Price	Per
MECU8R	80A RCD 6 Free Ways	£65.25	1
MECU10R	80A RCD 8 Free Ways	£71.50	1

Metal Clad Split Load Box Qty 6 (4 for 14SP)



CE & SEMKO Certified Devices

IP40 rating / Earth & neutral terminal bars included
Lift up stay put lid / Large enclosure for easy wiring

Part Number	Description	Price	Per
MECU10SP/80	10 Module 100A Switch + 80A RCCB 3 + 3 Split	£85.00	1
MECU14SP/80	14 Module 100A Switch + 80A RCCB 5 + 5 Split	£90.00	1

Metal Clad (Consumer Unit) Empty Enclosures



Earth & neutral terminal bars included / Lift up stay put lid
Top & bottom cable entries 4 x 20mm + 1 x 25mm
Large enclosure for easy wiring (Busbar sold separately)

Part Number	Description	Price	Per
MECU8	8 Module Empty Enclosure	£47.24	1
MECU10	10 Module Empty Enclosure	£53.06	1
MECU14	14 Module Empty Enclosure	£60.53	1

Consumer Unit Accessories

Busbar for Consumer Units - Spare Part



Suitable for all consumer units
Can cut to suit a specific number of ways.

Part Number	Description	Price	Per
ECUBB10S	100A Spare Busbar 6 MCB Ways	£2.44	1
ECUBB14S	100A Spare Busbar 10 MCB Ways	£3.55	1
ECUBB18S	100A Spare Busbar 14 MCB Ways	£3.71	1

Metal Clad Consumer Unit Dimensions (mm)

Type	Height	Width	Depth
MECU8	240 mm	235 mm	105 mm
MECU10	240 mm	270 mm	105 mm
MECU14	240 mm	340 mm	105 mm
MECU18SP17/80	240 mm	410 mm	105 mm

Metal Clad Garage & Shower Units

Metal Clad Garage Units (5 Module Enclosure) Box Qty 15



3rd Amendment Ready, CE and SEMKO Certified

IP54 rating / EN 60898 & EN 61008 Compliant
Metal clad enclosure with metal lid / RAL 7035
All MCB's are single pole B curve 6kA
Earth & neutral terminals included
Dimensions: Height 240mm x Width 160mm x Depth 85mm (106mm inc lid)



Part Number	Description	Price	Per
GRG16M	63A RCCB + 6A & 16A MCB	£49.92	1
GRG32M	63A RCCB + 6A & 32A MCB	£49.92	1
GRG5M	5 Module Empty Enclosure	£32.16	1

Metal Clad Shower Units (4 Module Enclosure) Box Qty 15



3rd Amendment Ready, CE and SEMKO Certified

IP40 rating EN60898 & EN 61008 Compliant.
Metal clad enclosure with metal lid / All MCB's are single pole B curve 6kA
Earth and neutral terminals included.
Dimensions: Height 240mm / Width 130mm / Depth 85mm (105mm inc. lid)

Part Number	Description	Price	Per
SU32M	63A RCCB + 32A MCB	£45.85	1
SU40M	63A RCCB + 40A MCB	£45.85	1
SU50M	63A RCCB + 50A MCB	£45.85	1

Metal Clad Modular Enclosures

Metal Clad Modular Enclosures (IP40)



CE Certified

All enclosures are amendment 3 compliant

MEC2M:

IP40 rating
20mm cable entries (1 top & 1 bottom)
Complete with earth terminal & din rail

MEC4M:

IP40 rating
2 x 25mm cable entries (top & bottom)
Keyhole slots for easy mounting
Complete with earth terminal & din rail

MEC6M:

IP40 rating
2 x 20mm + 1 x 25mm cable entries (Top & bottom).
Complete with earth terminal and din rail



Neutral cable sold separately see page 63

Part Number	Description	Price	Per
MEC2M	2 Module (with Metal Lid)	£15.90	1
MEC4M	4 Module (with Metal Lid)	£26.71	1
MEC6M	6 Module (with Metal Lid)	£27.80	1

Metal Clad Modular Enclosure Dimensions (mm)

Part Number	Height	Width	Depth
MEC2M	146mm	80mm	62mm (90mm inc lid)
MEC4M	238mm	125mm	78mm (102mm inc lid)
MEC6M	248mm	161mm	78mm (102mm inc lid)

4 Module Metal Clad Open Front Enclosure IP40



Suitable for consumer unit tails (Cable)

Part Number	Description	Price	Per
MEC4T	H: 190 x W: 115 x D: 61mm (88mm inc lid)	£26.50	1

Empty Distribution Enclosures

Insulated Distribution Enclosures (IP65)



CE Certified

IP65 rating
ABS enclosure with polycarbonate lid
Earth and neutral terminals included
Complete with din rail / 20-35mm cable entries
Can be used with RCBOs



Please note: the ECW24 double height is not suitable for use with RCBOs

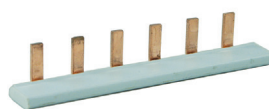
Part Number	Description	Price	Per
ECW4	4 Module	£13.57	1
ECW5	5 Module	£16.28	1
ECW6	6 Module	£18.13	1
ECW8	8 Module	£22.42	1
ECW12	12 Module	£26.98	1
ECW18	18 Module	£37.37	1
ECW24	24 Module	£52.36	1

Insulated Distribution Enclosure Dimensions (mm)

Type	Description	Height	Width	Depth
ECW4	4 Module	215mm	125mm	100mm
ECW5	5 Module	215mm	145mm	100mm
ECW6	6 Module	215mm	160mm	100mm
ECW8	8 Module	215mm	215mm	100mm
ECW12	12 Module	215mm	270mm	100mm
ECW18	18 Module	230mm	380mm	100mm
ECW24	24 Mod. Double Height	340mm	285mm	100mm

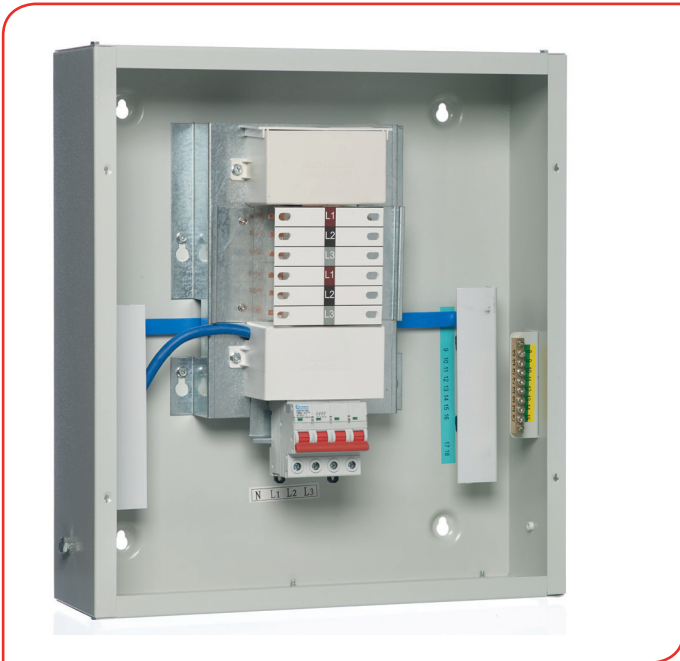
Spare Busbars for Distribution Enclosures

Spare Busbars for Distribution Enclosures



For use with the ECW range of distribution enclosures.
Use 2 x ECWBB12 for the ECW24 double height 24 module enclosure.

Part Number	Description	Price	Per
ECWBB4	100A 4 Way Busbar	£1.85	1
ECWBB5	100A 5 Way Busbar	£2.45	1
ECWBB6	100A 6 Way Busbar	£2.80	1
ECWBB8	100A 8 Way Busbar	£3.65	1
ECWBB12	100A 12 Way Busbar	£5.35	1
ECWBB18	100A 18 Way Busbar	£7.95	1



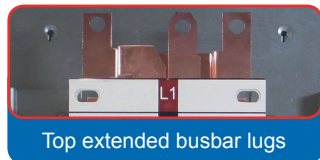
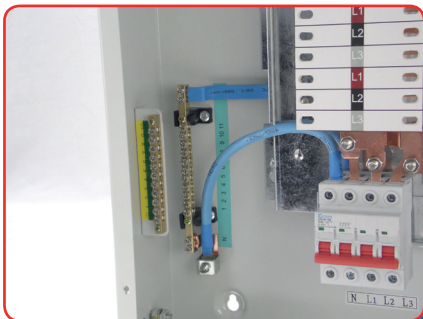
- IP20 rated incomer & neutral bar connections
- 125A 4 pole isolator fitted as standard giving isolation to 3 phase & neutral
- 100A RCCB incomer can be fitted if required
See page 68 (EUR1100.30/4, EUR1100.100/4, EUR1100.300/4)
- Robust epoxy coated steel enclosure (RAL 7035)
- Available up to 54 ways (all with 125A switch)
- Half din rail for simple fast fitting & removal of breakers
- Accommodates either 6kA or 10kA Europa MCBs & RCBOs (Not to be mixed on the same board)
- Easily removable top & bottom 2mm thick gland plates
- Incoming isolator capacity: 50mm²
- M8 earth bolts suitable for lugs

17th Edition Amendment 3 Compliant:

Our TPN boards are often used in single phase installations where a large number of out going ways are required.

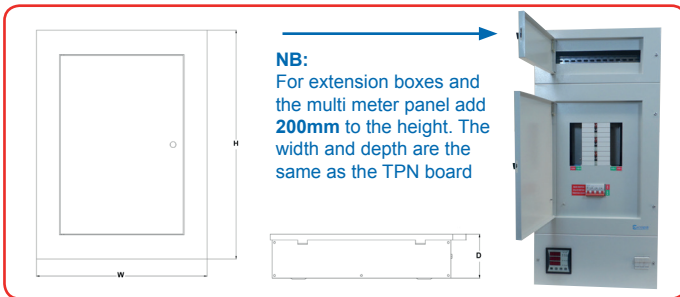
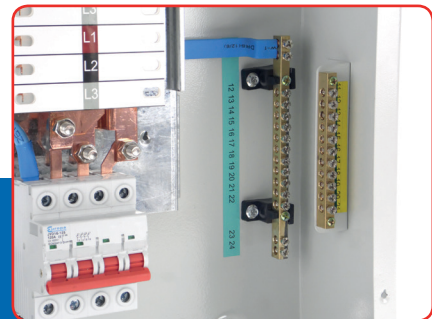
This solution is achieved by combining our single phase kit (TPN1P - page 63) with our popular 6kA type RCBOs (page 67).

Key lock for **safety & security**

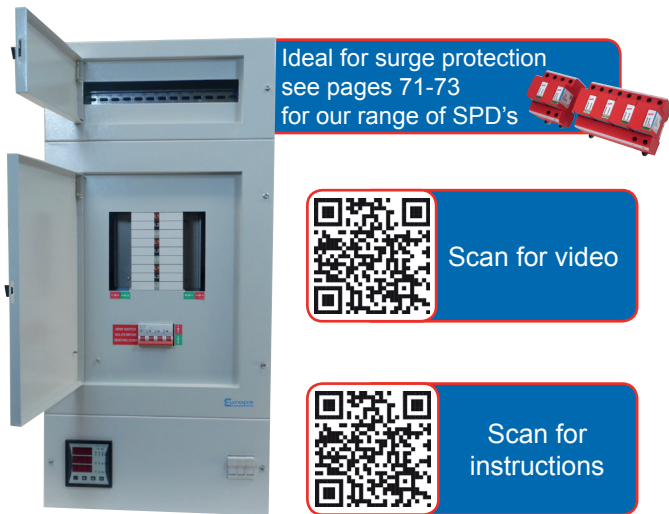


Top extended busbar lugs

Earth and neutral termination on both the left and right hand side of board make it clearer to identify which neutral relates to which MCB making wiring simple, safe and clear



NB:
For extension boxes and the multi meter panel add **200mm** to the height. The width and depth are the same as the TPN board



Ideal for surge protection
see pages 71-73
for our range of SPD's



Scan for video



Scan for instructions

TPN 3 Phase Board Dimensions (mm)			
Part Number (no. of modules)	H	W	D
TPN04 (12 Way)	507	465	130
TPN06 (18 Way)	561	465	130
TPN08 (24 Way)	615	465	130
TPN10 (30 Way)	669	465	130
TPN12 (36 Way)	723	465	130
TPN14 (42 Way)	778	465	130
TPN16 (48 Way)	831	465	130
TPN18 (54 Way)	885	465	130

3 Phase Distribution Boards and Accessories

TPN 3 Phase Boards (125A) (IP40 Enclosure)



CE Certified

EN 60439-3

Pre-wired with 125A 4 pole isolator

Blank labels for easy identification

Provision for direct connected neutral input using the cage terminal directly connected to the neutral bar

Part Number	Description	Price	Per
TPN04	12 Way 125A Switch	£156.28	1
TPN06	18 Way 125A Switch	£177.66	1
TPN08	24 Way 125A Switch	£208.66	1
TPN10	30 Way 125A Switch	£240.36	1
TPN12	36 Way 125A Switch	£264.26	1
TPN14	42 Way 125A Switch	£264.26	1
TPN16	48 Way 125A Switch	£318.98	1
TPN18	54 Way 125A Switch	£337.61	1



3 Phase Board Accessories

TPN Board Extension Boxes

Part Number	Description	Price	Per
① TPNEB	TPN Extension Box	£28.30	1
② TPNA16W	TPN Type A 16 Way Enclosure	£45.79	1
③ TPNMM	TPN Multi Meter Panel	£339.20	1

① TPNEB



② TPNA16W



③ TPNMM



The TPN range of extension boxes are specifically designed to simply bolt on to the top or bottom of Europa TPN 3 phase boards.

The **TPNMM** consists of a 3 phase multi meter that can measure volts, amps, KW, KWH, KVAR, KVARH, phase angle and frequency (Hz). Pre-wired meter box, easy to set up and programme. For more advanced operations Modbus and RS485 communication are available.

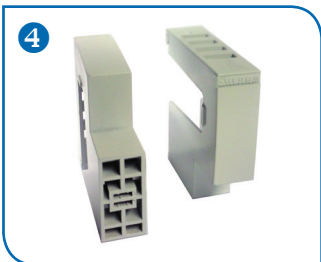
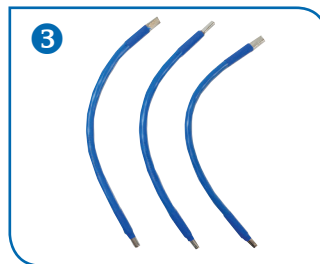
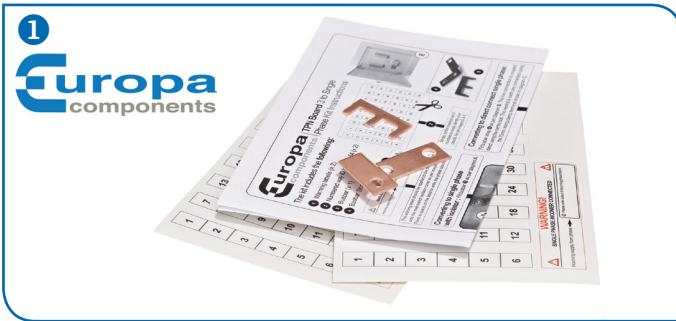
Please Note: the **TPNMM** can only be fitted to the bottom of the distribution board.

The **TPNEB** is supplied complete with a pre-fitted back plate.

The **TPNA16W** is a 16 way single phase extension box complete with din rail, earth and neutral terminals.

NB: The extension box, type A enclosure and multi meter panel can only be used with Europa TPN Boards.

Miscellaneous Accessories for Distribution Boards



- 1 Single phase kit:**
Warning labels (x 2)
Numbered way ID labels 1-54 (x2)
Busbar (x1) Busbar strap (x1)
- 2 Spare labels for single phase kit:**
Warning labels (x 2) Numbered way ID labels 1-54 (x2)
- 3 Neutral cables:**
Spare cables to suit IP65 ECW distribution enclosures.
- 4 1 module blank:**
Din rail mounting / Will fit most modern boards & top hat din rail.
Includes ventilation slots designed to dissipate heat when used to separate modular contactors.
- 5 Blanking module strips:**
Blanking plates for use in consumer units, garage units & shower units.

Part Number	Description	Price	Per
1 TPN1P	Single Phase Kit for TPN	£14.82	1
2 TPN1LABEL	Spare Labels for Single Phase Kit	£3.21	1
3 ECWNT10230	Neutral cable 10 x 230mm	£2.80	1
3 ECWNT16230	Neutral cable 16 x 230mm	£3.85	1
4 ECUBPD	1 Module Blank	£0.82	1
5 ECUBP	Module Blanks 2 x 4 Strips	£0.82	1

Single Phase Type A Distribution Boards



CE & SEMKO Certified
IP40 rating / Earth & neutral busbars included / Lift up stay put lid
Metal clad large enclosure for easy wiring / RAL 7035
Amendment 3 compliant

Part Number	Description	Price	Per
TPA8	Empty Enclosure 8 Module	£49.04	1
TPA12	Empty Enclosure 12 Module	£53.53	1
TPA16	Empty Enclosure 16 Module	£62.33	1
TPA18	Empty Enclosure 18 Module	£67.20	1
TPA8M	8 Module 100A Switch 6 Free Ways	£55.54	1
TPA12M	12 Module 100A Switch 10 Free Ways	£64.66	1
TPA16M	16 Module 100A Switch 14 Free Ways	£69.38	1
TPA18M	18 Module 100A Switch 16 Free Ways	£74.31	1

Type	Height	Width	Depth
TPA8 / M	240mm	240mm	105mm
TPA12 / M		315mm	
TPA16 / M		385mm	
TPA18 / M		410mm	



See pages 57-59
for our full range of
consumer units
including our
popular **E-Line**
range

Miniature Circuit Breakers, Residual Current Devices & Accessories

Terminal Capacity: 1P, 2P, 3P 6kA & 10kA MCBs cable up to 25mm²

6kA MCB B Curve

1 Pole MCB 6kA B Curve

Box Qty 12



Europa
components

CE & SEMKO Certified
6kA rating / EN 60898

Part Number	Description	Price	Per
EUB16B	6A B Curve 6kA	£4.69	1
EUB110B	10A B Curve 6kA	£4.69	1
EUB116B	16A B Curve 6kA	£4.69	1
EUB120B	20A B Curve 6kA	£4.69	1
EUB125B	25A B Curve 6kA	£4.69	1
EUB132B	32A B Curve 6kA	£4.69	1
EUB140B	40A B Curve 6kA	£4.69	1
EUB150B	50A B Curve 6kA	£4.69	1
EUB163B	63A B Curve 6kA	£4.69	1

6kA MCB C Curve

1 Pole MCB 6kA C Curve

Box Qty 12



Europa
components

CE & SEMKO Certified
6kA rating / EN 60898

Part Number	Description	Price	Per
EUB16C	6A C Curve 6kA	£4.70	1
EUB110C	10A C Curve 6kA	£4.70	1
EUB116C	16A C Curve 6kA	£4.70	1
EUB120C	20A C Curve 6kA	£4.70	1
EUB125C	25A C Curve 6kA	£4.70	1
EUB132C	32A C Curve 6kA	£4.70	1
EUB140C	40A C Curve 6kA	£4.70	1
EUB150C	50A C Curve 6kA	£4.70	1
EUB163C	63A C Curve 6kA	£4.70	1

10kA MCB B Curve

1 Pole MCB 10kA B Curve

Box Qty 12



Europa
components

CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC1P1B	1A B Curve 10kA	£8.11	1
EUC1P2B	2A B Curve 10kA	£8.11	1
EUC1P4B	4A B Curve 10kA	£8.11	1
EUC1P6B	6A B Curve 10kA	£8.11	1
EUC1P10B	10A B Curve 10kA	£8.11	1
EUC1P16B	16A B Curve 10kA	£8.11	1
EUC1P20B	20A B Curve 10kA	£8.11	1
EUC1P25B	25A B Curve 10kA	£8.11	1
EUC1P32B	32A B Curve 10kA	£8.11	1
EUC1P40B	40A B Curve 10kA	£8.11	1
EUC1P50B	50A B Curve 10kA	£8.11	1
EUC1P63B	63A B Curve 10kA	£8.11	1

3 Pole MCB 10kA B Curve

Box Qty 4



Europa
components

CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC3P1B	1A B Curve 10kA	£24.87	1
EUC3P2B	2A B Curve 10kA	£24.87	1
EUC3P6B	6A B Curve 10kA	£24.87	1
EUC3P10B	10A B Curve 10kA	£24.87	1
EUC3P16B	16A B Curve 10kA	£24.87	1
EUC3P20B	20A B Curve 10kA	£24.87	1
EUC3P25B	25A B Curve 10kA	£24.87	1
EUC3P32B	32A B Curve 10kA	£24.87	1
EUC3P40B	40A B Curve 10kA	£24.87	1
EUC3P50B	50A B Curve 10kA	£24.87	1
EUC3P63B	63A B Curve 10kA	£24.87	1

10kA MCB C Curve

1 Pole MCB 10kA C Curve

Box Qty 12



CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC1P1C	1A C Curve 10kA	£7.71	1
EUC1P2C	2A C Curve 10kA	£7.71	1
EUC1P4C	4A C Curve 10kA	£7.71	1
EUC1P6C	6A C Curve 10kA	£7.71	1
EUC1P10C	10A C Curve 10kA	£7.71	1
EUC1P16C	16A C Curve 10kA	£7.71	1
EUC1P20C	20A C Curve 10kA	£7.71	1
EUC1P25C	25A C Curve 10kA	£7.71	1
EUC1P32C	32A C Curve 10kA	£7.71	1
EUC1P40C	40A C Curve 10kA	£7.71	1
EUC1P50C	50A C Curve 10kA	£7.71	1
EUC1P63C	63A C Curve 10kA	£7.71	1

3 Pole MCB 10kA C Curve

Box Qty 4



CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC3P1C	1A C Curve 10kA	£23.79	1
EUC3P2C	2A C Curve 10kA	£23.79	1
EUC3P4C	4A C Curve 10kA	£23.79	1
EUC3P6C	6A C Curve 10kA	£23.79	1
EUC3P10C	10A C Curve 10kA	£23.79	1
EUC3P16C	16A C Curve 10kA	£23.79	1
EUC3P20C	20A C Curve 10kA	£23.79	1
EUC3P25C	25A C Curve 10kA	£23.79	1
EUC3P32C	32A C Curve 10kA	£23.79	1
EUC3P40C	40A C Curve 10kA	£23.79	1
EUC3P50C	50A C Curve 10kA	£23.79	1
EUC3P63C	63A C Curve 10kA	£23.79	1

2 Pole MCB 10kA C Curve

Box Qty 6



CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC2P1C	1A C Curve 10kA	£17.30	1
EUC2P2C	2A C Curve 10kA	£17.30	1
EUC2P4C	4A C Curve 10kA	£17.30	1
EUC2P6C	6A C Curve 10kA	£17.30	1
EUC2P10C	10A C Curve 10kA	£17.30	1
EUC2P16C	16A C Curve 10kA	£17.30	1
EUC2P20C	20A C Curve 10kA	£17.30	1
EUC2P25C	25A C Curve 10kA	£17.30	1
EUC2P32C	32A C Curve 10kA	£17.30	1
EUC2P40C	40A C Curve 10kA	£17.30	1
EUC2P50C	50A C Curve 10kA	£17.30	1
EUC2P63C	63A C Curve 10kA	£17.30	1

10kA MCB D Curve

1 Pole MCB 10kA D Curve

Box Qty 12

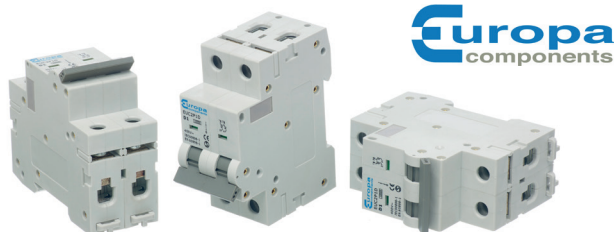


CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC1P1D	1A D Curve 10kA	£9.73	1
EUC1P2D	2A D Curve 10kA	£9.73	1
EUC1P4D	4A D Curve 10kA	£9.73	1
EUC1P6D	6A D Curve 10kA	£9.73	1
EUC1P10D	10A D Curve 10kA	£9.73	1
EUC1P16D	16A D Curve 10kA	£9.73	1
EUC1P20D	20A D Curve 10kA	£9.73	1
EUC1P25D	25A D Curve 10kA	£9.73	1
EUC1P32D	32A D Curve 10kA	£9.73	1
EUC1P40D	40A D Curve 10kA	£9.73	1
EUC1P50D	50A D Curve 10kA	£9.73	1
EUC1P63D	63A D Curve 10kA	£9.73	1

2 Pole MCB 10kA D Curve

Box Qty 6



CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC2P1D	1A D Curve 10kA	£20.54	1
EUC2P2D	2A D Curve 10kA	£20.54	1
EUC2P4D	4A D Curve 10kA	£20.54	1
EUC2P6D	6A D Curve 10kA	£20.54	1
EUC2P10D	10A D Curve 10kA	£20.54	1
EUC2P16D	16A D Curve 10kA	£20.54	1
EUC2P20D	20A D Curve 10kA	£20.54	1
EUC2P25D	25A D Curve 10kA	£20.54	1
EUC2P32D	32A D Curve 10kA	£20.54	1
EUC2P40D	40A D Curve 10kA	£20.54	1
EUC2P50D	50A D Curve 10kA	£20.54	1
EUC2P63D	63A D Curve 10kA	£20.54	1

3 Pole MCB 10kA D Curve

Box Qty 4



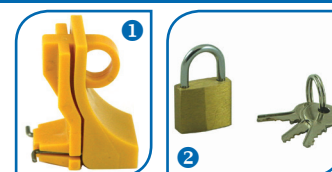
CE & SEMKO Certified
10kA rating / EN 60898

Part Number	Description	Price	Per
EUC3P1D	1A D Curve 10kA	£28.65	1
EUC3P2D	2A D Curve 10kA	£28.65	1
EUC3P4D	4A D Curve 10kA	£28.65	1
EUC3P6D	6A D Curve 10kA	£28.65	1
EUC3P10D	10A D Curve 10kA	£28.65	1
EUC3P16D	16A D Curve 10kA	£28.65	1
EUC3P20D	20A D Curve 10kA	£28.65	1
EUC3P25D	25A D Curve 10kA	£28.65	1
EUC3P32D	32A D Curve 10kA	£28.65	1
EUC3P40D	40A D Curve 10kA	£28.65	1
EUC3P50D	50A D Curve 10kA	£28.65	1
EUC3P63D	63A D Curve 10kA	£28.65	1

listed in
LUCKINSlive™

MCB Accessories

MCB Lock and Padlock



Manufactured from strong nylon,

Fits most modern MCB's. (MCB not included)

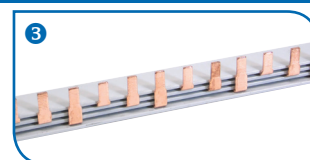
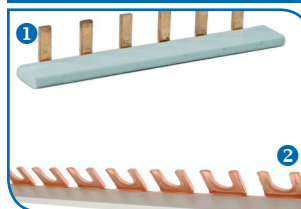
Used to lock MCB's, RCBO's, RCCB's, & mainswitches in the ON or OFF positions.

Padlock secures MCB lock device.

Part Number	Description	Price	Per
① EUBLOCK	MCB Lock (3 per pack)	£6.30	Pack
② EUBPADLOCK	Padlock (3 per pack)	£10.40	Pack

NB: MCB not included

1000mm Busbars



Can be cut to any length

Maximum 55 Way 1 pole MCBs per length (54 for fork type)

Maximum 18 Way 3 pole MCBs per length

Part Number	Description	Price	Per
① BB1PP80/1000	Busbar 1P Pin 80A 1000mm	£19.20	1
① BB1PP100/1000	Busbar 1P Pin 100A 1000mm	£25.52	1
② BB1PF80/1000	Busbar 1P Fork 80A 1000mm	£25.52	1
③ BB3PP100/1000	Busbar 3P Pin 100A 1000mm	£62.88	1

Auxiliary Switch 1P Changeover



400V ~	3A	AC12
230V ~	6A	
130V =	1A	DC12
48V =	2A	
24V =	6A	
IEC60947-5-1		
EN 60947-5-1		



CE Approved

Suitable for use with either 6kA or 10kA MCB's

Fits on to the left hand side of the MCB. Max 2 Aux Sw. per MCB.

Part Number	Description	Price	Per
EUCA11	Aux Sw. 1 Pole Changeover	£8.38	1

Mainswitch / Isolator

Mainswitch / Isolator



CE & SEMKO Certified
EN 60947-3



Part Number	Description	Price	Per
ISO63-2	63A 2 Pole Mainswitch / Isolator	£5.35	1
ISO100-2	100A 2 Pole Mainswitch / Isolator	£5.35	1
ISO100-4	100A 4 Pole Mainswitch / Isolator	£10.73	1
ISO125-3	125A 3 Pole Mainswitch / Isolator	£14.77	1
ISO125-4	125A 4 Pole Mainswitch / Isolator	£19.48	1

NB: Terminal capacity: Cable up to 35mm² 100A / 50mm² 125A

RCBOs

An **RCBO** is a combination of an **MCB** and **RCD**. This enables both over current protection and earth fault current protection within a single module.

Terminal Capacity: Cable up to 16mm²

The single pole **RCBO** is the same width as an **MCB** (17.5mm) and can be retro-fitted in a consumer unit when the extra protection of an **RCBB** is required.

RCBO B - Curve 1 Pole 6kA



CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUB1R.6/1B	6A 30mA Trip 1 Pole 6kA	£38.34	1
EUB1R.10/1B	10A 30mA Trip 1 Pole 6kA	£38.34	1
EUB1R.16/1B	16A 30mA Trip 1 Pole 6kA	£38.34	1
EUB1R.20/1B	20A 30mA Trip 1 Pole 6kA	£38.34	1
EUB1R.32/1B	32A 30mA Trip 1 Pole 6kA	£38.34	1
EUB1R.40/1B	40A 30mA Trip 1 Pole 6kA	£38.34	1

RCBO C - Curve 1 Pole 6kA



CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUB1R.6/1C	6A 30mA Trip 1 Pole 6kA	£43.20	1
EUB1R.10/1C	10A 30mA Trip 1 Pole 6kA	£43.20	1
EUB1R.16/1C	16A 30mA Trip 1 Pole 6kA	£43.20	1
EUB1R.20/1C	20A 30mA Trip 1 Pole 6kA	£43.20	1
EUB1R.32/1C	32A 30mA Trip 1 Pole 6kA	£43.20	1
EUB1R.40/1C	40A 30mA Trip 1 Pole 6kA	£43.20	1

RCBO B - Curve 1 Pole 10kA



CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUC7R.6/1B	6A 30mA Trip 1 Pole 10kA	£43.67	1
EUC7R.10/1B	10A 30mA Trip 1 Pole 10kA	£43.67	1
EUC7R.16/1B	16A 30mA Trip 1 Pole 10kA	£43.67	1
EUC7R.20/1B	20A 30mA Trip 1 Pole 10kA	£43.67	1
EUC7R.32/1B	32A 30mA Trip 1 Pole 10kA	£43.67	1
EUC7R.40/1B	40A 30mA Trip 1 Pole 10kA	£43.67	1

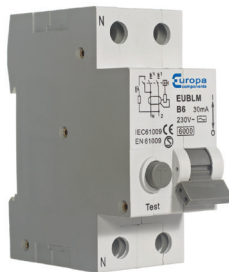
RCBO C - Curve 1 Pole 10kA



CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUC7R.6/1C	6A 30mA Trip 1 Pole 10kA	£47.38	1
EUC7R.10/1C	10A 30mA Trip 1 Pole 10kA	£47.38	1
EUC7R.16/1C	16A 30mA Trip 1 Pole 10kA	£47.38	1
EUC7R.20/1C	20A 30mA Trip 1 Pole 10kA	£47.38	1
EUC7R.32/1C	32A 30mA Trip 1 Pole 10kA	£47.38	1
EUC7R.40/1C	40A 30mA Trip 1 Pole 10kA	£47.38	1

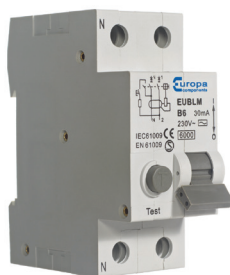
RCBO B - Curve 2 Pole 6kA




CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUBLM6B30	6A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM16B30	16A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM20B30	20A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM32B30	32A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM40B30	40A 30mA Trip 2 Pole 6kA	£47.77	1

RCBO C - Curve 2 Pole 6kA




CE & SEMKO Certified
EN 61009 230V / Type AC

Part Number	Description	Price	Per
EUBLM6C30	6A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM16C30	16A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM20C30	20A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM32C30	32A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM40C30	40A 30mA Trip 2 Pole 6kA	£47.77	1
EUBLM16C30A	16A 30mA Trip 2 Pole 6kA Type A	£56.76	1
EUBLM40C30A	40A 30mA Trip 2 Pole 6kA Type A	£56.76	1

Abbreviations Explained:



- MCB** - Miniature circuit breaker
- RCCB** - Residual current circuit breaker, also referred to as an RCD
- RCBO** - Residual current circuit breaker with overload protection
- An RCBO is a combination of an MCB & RCCB

RCCB / RCD

Residual current circuit breaker (RCCB) providing earth fault safety protection.

Terminal capacity: Cable up to 25mm²

RCCB 2 Pole 10kA




CE & SEMKO Certified
EN 61008 230V / Type AC

Part Number	Description	Price	Per
EUR125.30/2	25A 30mA Trip 10kA	£32.25	1
EUR125.100/2	25A 100mA Trip 10kA	£32.25	1
EUR140.30/2	40A 30mA Trip 10kA	£32.25	1
EUR140.100/2	40A 100mA Trip 10kA	£32.25	1
EUR163.30/2	63A 30mA Trip 10kA	£32.25	1
EUR163.100/2	63A 100mA Trip 10kA	£32.25	1
EUR180.30/2	80A 30mA Trip 10kA	£42.20	1
EUR180.100/2	80A 100mA Trip 10kA	£42.20	1
EUR180.100/2S	80A 100mA Trip Time Delay 10kA	£56.90	1
EUR180.300/2	80A 300mA Trip 10kA	£45.53	1
EUR1100.30/2	100A 30mA Trip 10kA	£66.49	1
EUR1100.100/2	100A 100mA Trip 10kA	£66.49	1
EUR1100.100/2S	80A 100mA Trip Time Delay 10kA	£78.19	1
EUR1100.300/2	100A 300mA Trip 10kA	£79.47	1

RCCB 4 Pole 10kA




CE & SEMKO Certified
EN 61008 380-415V / Type AC

Part Number	Description	Price	Per
EUR125.30/4	25A 30mA Trip 10kA	£55.23	1
EUR125.100/4	25A 100mA Trip 10kA	£55.23	1
EUR140.30/4	40A 30mA Trip 10kA	£55.23	1
EUR140.100/4	40A 100mA Trip 10kA	£55.23	1
EUR163.30/4	63A 30mA Trip 10kA	£55.23	1
EUR163.100/4	63A 100mA Trip 10kA	£55.23	1
EUR180.30/4	80A 30mA Trip 10kA	£64.20	1
EUR180.100/4	80A 100mA Trip 10kA	£64.20	1
EUR180.100/4S	80A 100mA Trip Time Delay 10kA	£75.40	1
EUR180.300/4	80A 300mA Trip 10kA	£69.71	1
EUR1100.30/4	100A 30mA Trip 10kA	£81.09	1
EUR1100.100/4	100A 100mA Trip 10kA	£81.09	1
EUR1100.100/4S	80A 100mA Trip Time Delay 10kA	£96.18	1
EUR1100.300/4	100A 300mA Trip 10kA	£96.77	1

Modular Contactors

2 Pole Modular Contactor (Din Rail Mounting)



Width 18mm
Rated insulation voltage (Ui) 400V AC
Terminal capacity: 1.5 - 10mm²

Part Number	Description	Price	Per
EUC1-20-2P	2 Pole N/O 20A 230V AC Coil	£25.46	1
EUC1-20-2NOB	2 Pole 2 N/O 24V AC Coil	£27.33	1
EUC1-20-2NCB	2 Pole N/C 20A 24V AC Coil	£27.33	1
EUC1-20-2NC	2 Pole N/C 20A 230V AC Coil	£27.33	1
EUC1-25-2P	2 Pole 2 N/O 25A 230V AC Coil	£33.54	1
EUC1-25-2NCP	2 Pole 2 N/C 25A 230V AC Coil	£35.34	1

4 Pole Modular Contactor (Din Rail Mounting)

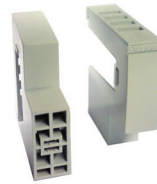


Width 25A 36mm / 40A & 63A 54mm
Rated insulation voltage (Ui) 500V AC
Terminal capacity: 25A 1.5 - 10mm² / 40A & 63A 2.5 - 25mm²

Part Number	Description	Price	Per
EUC2-25-4P	4 Pole N/O 25A 230V AC Coil	£46.27	1
EUC2-25-4NOB	4 Pole N/O 25A 24V AC Coil	£50.55	1
EUC2-25-4NCB	4 Pole N/C 25A 24V AC Coil	£50.55	1
EUC2-25-4NCP	4 Pole N/C 25A 230V AC Coil	£50.55	1
EUC3-40-4P	4 Pole N/O 40A 230V AC Coil	£61.85	1
EUC3-40-4NOB	4 Pole N/O 40A 24V AC Coil	£72.61	1
EUC3-40-4NCB	4 Pole N/C 40A 24V AC Coil	£72.61	1
EUC3-40-4NCP	4 Pole N/C 40A 230V AC Coil	£72.61	1
EUC3-63-4P	4 Pole N/O 63A 230V AC Coil	£68.74	1
EUC3-63-4NOB	4 Pole N/O 63A 24V AC Coil	£82.04	1
EUC3-63-4NCB	4 Pole N/C 63A 24V AC Coil	£82.04	1
EUC3-63-4NCP	4 Pole N/C 63A 230V AC Coil	£82.04	1

Modular Contactor Spec.	EUC1-20-2P	EUC1-25-2P	EUC2-25-4P	EUC3-40-4P	EUC3-63-4P
No. of Modules Wide	1 Module		2 Modules		3 Modules
Width (mm)	18mm		36mm		54mm
Rated current (In)	20A	25A		40A	63A
Rated Insulation Voltage (Ui)	400VAC			500VAC	
Rated Operating Voltage (Un)	240VAC			400VAC	
Rated Operation Current AC1 (Ie)	20A	25A		40A	63A
Rated Operation Current AC3 (Ie)	9A			25A	32A
Rated Power AC1	4KW (230VAC)		16KW	28KW	40KW
Rated power AC3	-		4KW	12KW	15KW
Rated Terminal Capacity	1.5-10mm ²			2.5-25mm ²	
Rated Terminal Capacity (Coil)	0.75-2.5mm ²				

1 Module Blank (Din Rail Mount)



Includes ventilation slots designed to dissipate heat when used to separate modular contactors.
Fits most modern boards.

Part Number	Description	Price	Per
ECUBPD	1 Module Blank	£0.82	1

Kilo Watt Hour Meters

MID Approved 45A Kilo Watt Hour Meter



MID Approved
Single phase kilo watt hour meter / Digital display / 50/60Hz

Part Number	Description	Price	Per
SDM120D	45A 1 Mod kWh Meter	£47.97	1

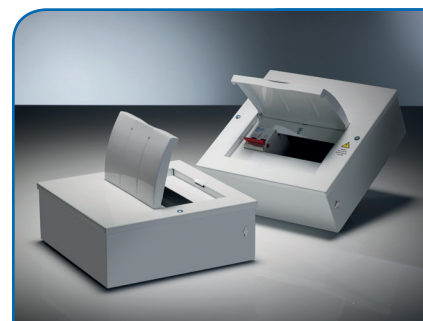
Bell Transformer

230V Bell Transformer (Din Rail Mounting)



EN 61558
230V / 8VA / 50Hz / Width: 35mm / Output voltages: 8, 12 & 24V AC

Part Number	Description	Price	Per
EBT16-8	Bell Transformer for AC Bells Only	£21.68	1



See page 63
for our range of
amendment 3
compliant
type A boards

Surge Protection Devices

Need assistance selecting the correct SPD?

For us to deal with your enquiry as efficiently as possible, please ensure you can answer the key questions below and then call our technical department on **01582 692 444**

- Is the supply single phase or three phase?
- What type of earthing system is installed (TT, TN-S or TN-C-S / PME)?
- What type of building is it?
- Does the building have lightning protection (Lightning rod)?
- Is there an overhead power cable to the building?
- Does the building have a metal roof?
- How many TPN / Consumer units are in the installation?
- Are the TPN/Consumer units more than 10 metres (Cable length) apart?
- Will the equipment to be protected be more than 10 metres (Cable length) away from the proposed SPD?
- Is there sensitive electronic equipment within the premises?



SPD's should be selected and installed according to sections 443 & 534 of the IET Wiring Regulations (BS7671) and the manufacturers installation instructions.

Below are some salient points regarding selection and installation:

- Combined Type 1/2 and Type 2 devices are installed as close as possible to the incoming supply of the installation or as close as possible to the main distribution board (Refer to Sections 443.2.6 & 534.2.1)
- If a sub-distribution board or equipment is to be protected (Protective distance) is more than 10 metres away from the main distribution board, additional SPD devices shall be installed (Refer to Section 534.2.3.1.1)
- Additional SPDs (Typically Type 3) are required to protect sensitive and critical equipment (For example hospital equipment and fire/security alarm systems). Such SPDs shall be coordinated with the SPDs installed upstream. All Dehn SPD Type 1, 2 & 3 products are fully coordinated. (Refer to Sections 534.2.1 & 534.2.3.6)

The connecting conductors of SPDs (Section 534.2.10) shall either:

- Have a cross-sectional area of not less than 4mm² copper if the cross-sectional area of the line conductors is greater than 4mm², or
- Have a cross-sectional area not less than that of the line conductors, where the line conductors have a cross-sectional area less than 4mm²
- Where there is a Lightning Protection System (LPS) or overhead cable application, the minimum cross-sectional area for Type 1 SPDs shall be 16mm² copper
- To gain maximum protection, the conductors shall be kept as short as possible. The critical length of the connecting conductors to the SPDs should preferably not exceed 0.25 metres, but shall in no case exceed 0.5 metres in length (Refer to Section 534.2.9)

Protection against SPD short circuits is provided by over current protective devices (OCPDs which can be MCBs & Fuses etc.) which shall be selected according to the recommended ratings given in the product data sheets (Refer to Section 534.2.4). In certain circumstances the OCPD at the origin may provide sufficient over current protection. However, we would recommend that a separate coordinated OCPD (Not required if the SPD has an integrated OCPD) is fitted to protect the SPD so that if a short-circuit occurs in the SPD, the power to the installation is maintained. This will also provide a means of isolation for maintenance.

Compact Combined Type 1 & 2 Devices for TT/TN Earthing Systems

Combined Type 1 & 2 Devices for TT/TN Earthing Systems

Compact Combined Type 1 & 2 for TT/TN

Combined Type 1 & 2 Devices for TT/TN



Suitable for all earthing systems TT, TN-S & TN-C-S (PME)
For lightning protection systems (LPS) with lightning protection levels (LPL) 3 or 4 up to 12.5kA or for an overhead supply line
Compact monoblock design
Protects against surges and from direct lightning strikes
For domestic, commercial & light industrial applications typically up to 125A.
Ideal for where space is limited i.e. Consumer units & distribution boards

Suitable for all earthing systems TT, TN-S & TN-C-S (PME)
For all lightning protection systems (LPS) with lightning protection levels (LPL) up to 100kA or for an overhead supply line
Protects against surges and from direct lightning strikes
Plug in module for ease of replacement
Alarm option for surge status monitoring

Part Number	Description	Price	Per
941110	2 Module Type 1/2 Single Phase TT/TN	£358.83	1
941310	4 Module Type 1/2 Three Phase TT/TN	£500.62	1

Part Number	Description	Price	Per
951110	4 Module Type 1/2 SPN Single Phase TT/TN	£609.88	1
951115	4 Module Type 1/2 Single Phase TT/TN + Monitoring Contacts	£658.46	1
951310	8 Module Type 1/2 Three Phase TT/TN	£1065.67	1
951315	8 Module Type 1/2 Three Phase TT/TN + Monitoring Contacts	£1209.40	1

Compact Combined Type 1 & 2 Devices for TN Earthing Systems

Combined Type 1 & 2 Devices for TN Earthing Systems

Compact Combined Type 1 & 2 Devices for TN

Combined Type 1 & 2 Devices for TN



Suitable for TN-S & TN-C-S (PME) earthing systems
For installations with lightning protection system (LPS) or for an overhead supply line
Compact monoblock design
Protects against surges and from direct lightning strikes
For domestic, commercial & light industrial applications typically up to 125A
Ideal for where space is limited i.e. Consumer units & distribution boards

Suitable for TN-S & TN-C-S (PME) earthing systems
For installations with lightning protection system (LPS) or for an overhead supply line
Protects against surges and from direct lightning strikes
Plug in module for ease of replacement
Alarm option for surge status monitoring

Part Number	Description	Price	Per
941200	2 Module Type 1/2 Single Phase TN	£318.36	1
941400	4 Module Type 1/2 Three Phase TNS	£596.41	1

Part Number	Description	Price	Per
951200	4 Module Type 1/2 SPN Single Phase TN	£438.35	1
951205	4 Module Type 1/2 Single Phase TN + Monitoring Contacts	£477.25	1
951400	8 Module Type 1/2 TPN Three Phase TN	£802.64	1
951405	8 Module Type 1/2 Three Phase TN + Monitoring Contacts	£919.95	1

Compact Type 2 Devices for TT/TN Earthing Systems for Circuits up to 125A

Compact Type 2 Devices for TT/TN (up to 125A)



Suitable for all earthing systems TT, TN-S & TN-C-S (PME)
 For installations without lightning protection systems (LPS) and without an overhead supply line
 Compact monoblock design
 Protects against supply and induced surge currents
 For domestic, commercial & light industrial applications typically up to 125A.

Ideal for where space is limited i.e. Consumer units & distribution boards

Part Number	Description	Price	Per
900450	1 Module Type 2 Single Phase TT/TN	£67.52	1
900455	2 Module Type 2 Three Phase TT/TN	£139.71	1

Type 2 Devices for TT/TN Earthing Systems

Type 2 Devices for TT/TN



Suitable for all earthing systems TT, TN-S & TN-C-S (PME)
 For installations without lightning protection systems (LPS) and without an overhead supply line
 Protects against supply and induced surge currents
 Plug in module for ease of replacement
 Alarm option for surge status monitoring

Part Number	Description	Price	Per
952110	2 Module Type 2 Single Phase TT/TN	£138.45	1
952115	2 Module Type 2 Single Phase TT + Monitoring Contacts	£144.87	1
952310	4 Module Type 2 Three Phase TT	£246.04	1
952315	4 Module Type 2 Three Phase TT/TN + Monitoring Contacts	£281.24	1

Type 2 Devices for TN Earthing Systems

Type 2 Devices for TN



Suitable for TN-S & TN-C-S (PME) earthing systems
 For installations without lightning protection systems (LPS) and without an overhead supply line
 Protects against supply and induced surge currents
 Plug in module for ease of replacement
 Alarm option for surge status monitoring

Part Number	Description	Price	Per
952200	2 Module Type 2 Single Phase TN	£91.20	1
952205	2 Module Type 2 Single Phase TN + Monitoring Contacts	£115.85	1
952400	4 Module Type 2 Three Phase TN	£181.42	1
952405	4 Module Type 2 Three Phase TN + Monitoring Contacts	£221.96	1

Type 2 Devices for TN-C-S Earthing Systems

Type 2 Devices for TN-C-S



Suitable for TN-C-S (PME) earthing systems
 For installations without lightning protection systems (LPS) and without an overhead supply line
 Protects against supply and induced surge currents
 Plug in module for ease of replacement

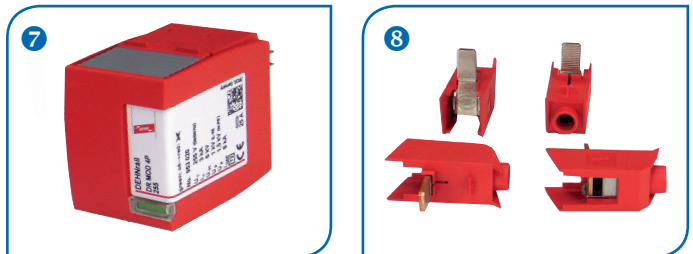
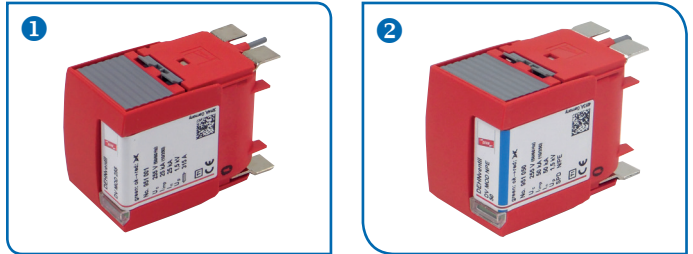
Part Number	Description	Price	Per
952070	1 Module Type 2 Single Phase TN-C-S	£70.14	1
952090	1 Module Type 2 Single Phase TN-C-S + Monitoring Contacts	£83.20	1

Type 2 Devices for PV Systems

SPD Accessories

Type 2 Devices for PV Systems

Surge Protection (SPD) Accessories

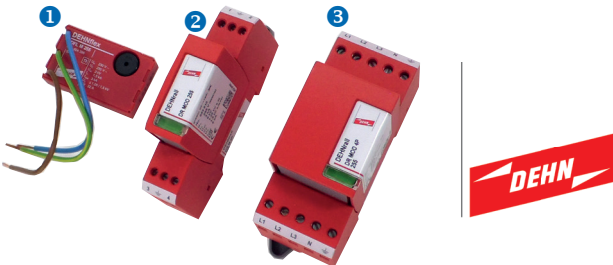


For installations without a lightning protection system (LPS)
Not suitable for PV systems installed on metal roofs
Protects the inverter input against surges
Integrated DC fuse with SCI function
Plug in module for ease of replacement
Recommended IP65 enclosure: ECW4

Part Number	Description	Price	Per
952510	3 Module Type 2 1000V DC	£202.91	1
952511	3 Module Type 2 600V DC	£204.64	1

Type 3 Devices for all Earthing Systems

Type 3 Devices for all Earthing Systems



Suitable for all earthing systems TT, TN-S & TN-C-S (PME)
Important: A combined type 1/2 or type 2 device must be installed at the origin of supply
To be installed close to the equipment to be protected
Protects sensitive equipment e.g. TV's, computers etc.
plug in module for ease of replacement (Except 924396)
Alarm option for surge status monitoring

Part Number	Description	Price	Per
1 924396	Flush Mount Type 3 Single Phase + Buzzer	£61.12	1
2 953200	1 Module Type 3 Single Phase 25A	£62.00	1
2 953205	1 Module Type 3 Single Phase 25A + Monitoring Contacts	£75.03	1
2 953228	1 Module Type 3 Single Phase 32A	£80.70	1
2 953229	1 Module Type 3 Single Phase 32A + Monitoring Contacts	£96.28	1
3 953400	2 Module Type 3 Three Phase 25A	£147.53	1
3 953405	2 Module Type 3 Three Phase 25A + Monitoring Contacts	£169.19	1

Part Number	Description	Price	Per
1 951001	Type 1 Spare L Plug	£311.11	1
2 951050	Type 1 Spare N Plug Single Phase	£364.64	1
3 951100	Type 1 Spare N Plug Three Phase	£385.84	1
4 952010	Type 2 Spare L Plug	£53.27	1
5 952050	Type 2 Spare N Plug TT	£67.77	1
6 953010	Type 3 Spare Plug Single Phase	£65.71	1
7 953020	Type 3 Spare Plug Three Phase	£129.48	1
8 952589	1 Pole STAK25 Terminal (MOQ 4pcs)	£7.39	1

NB: For product applications please see the table on page 158

Plugs & Sockets
Appliance Inlet
IP44 Appliance Inlet

CE Certified

 IEC 60309 / Easy installation / Long life
 High reliability / High quality housing

Part Number	Description	Price	Per
IAP163P	● 230V 2P + E 16A	£5.83	1
IAP165N	● 400V 3P + N + E 16A	£7.16	1
IAP323P	● 230V 2P + E 32A	£8.48	1
IAP325N	● 400V 3P + N + E 32A	£10.07	1

Industrial Plugs
IP44 Industrial Plugs

CE Certified

 IEC 60309 / Easy installation / Long life
 High reliability / High quality housing

Part Number	Description	Price	Per
IP163F	● 110V 2P + E 16A	£2.31	1
IP163P	● 230V 2P + E 16A	£2.83	1
IP164N	● 415V 3P + E 16A	£2.84	1
IP165N	● 415V 3P + N + E 16A	£3.51	1
IP323F	● 110V 2P + E 32A	£3.90	1
IP323P	● 230V 2P + E 32A	£4.26	1
IP324N	● 415V 3P + E 32A	£4.44	1
IP325N	● 415V 3P + N + E 32A	£5.20	1

Industrial Sockets
IP44 In-line Sockets

CE Certified

 IEC 60309 / Easy installation / Long life
 High reliability / High quality housing

Part Number	Description	Price	Per
IS163F	● 110V 2P + E 16A In-line Socket	£3.08	1
IS163P	● 230V 2P + E 16A In-line Socket	£2.79	1
IS164N	● 415V 3P + E 16A In-line Socket	£4.32	1
IS165N	● 415V 3P + N + E 16A In-line Socket	£4.57	1
IS323F	● 110V 2P + E 32A In-line Socket	£4.23	1
IS323P	● 230V 2P + E 32A In-line Socket	£4.23	1
IS324N	● 415V 3P + E 32A In-line Socket	£4.67	1
IS325N	● 415V 3P + N + E 32A In-line Socket	£5.29	1

IP44 Surface Socket

CE Certified

 IEC 60309 / Easy installation / Long life
 PG21 cable entry / High reliability / High quality housing

Part Number	Description	Price	Per
ISS163F	● 110V 2P + E 16A Surface Socket	£4.73	1
ISS163P	● 230V 2P + E 16A Surface Socket	£4.73	1
ISS164N	● 415V 3P + E 16A Surface Socket	£5.01	1
ISS165N	● 415V 3P + N + E 16A Surface Socket	£5.24	1
ISS323F	● 110V 2P + E 32A Surface Socket	£6.68	1
ISS323P	● 230V 2P + E 32A Surface Socket	£7.24	1
ISS324N	● 415V 3P + E 32A Surface Socket	£7.40	1
ISS325N	● 415V 3P + N + E 32A Surface Socket	£8.35	1

IP44 Panel Sockets

CE Certified

 IEC 60309 / Easy installation / Long life
 High reliability / High quality housing

Part Number	Description	Price	Per
IPS163F	● 110V 2P + E 16A Panel Socket	£3.84	1
IPS163P	● 230V 2P + E 16A Panel Socket	£3.84	1

Three Outlet Splitter
IP44 Three Outlet Splitter

CE Certified

 IEC 60309 / Easy installation / Long life
 High reliability / High quality housing

Part Number	Description	Price	Per
ISP3163P	● 230V 2P + E 16A	£18.55	1

Voltage Colour Codes

- = 110V
- = 230V
- = 415V



Weatherproof Industrial Plugs

IP67 Industrial Plugs



CE Certified

IEC 60309 / IP67 rated / Easy installation / Long life
High reliability / Suited to extreme conditions / High quality housing

Part Number	Description	Price	Per
IPW163F	● 110V 2P + E 16A	£4.47	1
IPW163P	● 230V 2P + E 16A	£4.56	1
IPW164N	● 415V 3P + E 16A	£5.30	1
IPW165N	● 415V 3P + N + E 16A	£6.37	1
IPW323F	● 110V 2P + E 32A	£7.39	1
IPW323P	● 230V 2P + E 32A	£7.39	1
IPW324N	● 415V 3P + E 32A	£8.46	1
IPW325N	● 415V 3P + N + E 32A	£9.34	1
IPW633P	● 230V 2P + E 63A	£26.74	1
IPW634N	● 415V 3P + E 63A	£30.22	1
IPW635N	● 415V 3P + N + E 63A	£33.76	1
IPW1253P	● 230V 2P + E 125A	£72.40	1
IPW1255N	● 415V 3P + N + E 125A	£76.85	1

Weatherproof Industrial Sockets

IP67 In-line Sockets



CE Certified

IEC 60309 / Easy installation / Long life
High reliability / Suited to extreme conditions / High quality housing

Part Number	Description	Price	Per
ISW163F	● 110V 2P + E 16A In-line Socket	£5.98	1
ISW163P	● 230V 2P + E 16A In-line Socket	£6.09	1
ISW164N	● 415V 3P + E 16A In-line Socket	£6.82	1
ISW165N	● 415V 3P + N + E 16A In-line Socket	£7.98	1
ISW323F	● 110V 2P + E 32A In-line Socket	£9.55	1
ISW323P	● 230V 2P + E 32A In-line Socket	£9.55	1
ISW324N	● 415V 3P + E 32A In-line Socket	£10.34	1
ISW325N	● 415V 3P + N + E 32A In-line Socket	£11.40	1
ISW633P	● 230V 2P + E 63A In-line Socket	£32.38	1
ISW634N	● 415V 3P + E 63A In-line Socket	£37.25	1
ISW635N	● 415V 3P + N + E 63A In-line Socket	£40.98	1
ISW1253P	● 230V 2P + E 125A In-line Socket	£84.64	1
ISW1255N	● 415V 3P + N + E 125A In-line Socket	£92.92	1

IP67 Surface Sockets



CE Certified

IEC 60309 / Easy installation / Long life / High reliability
Suited to extreme conditions / High quality housing

Part Number	Description	Price	Per
ISSW163F	● 110V 2P + E 16A Surface Socket	£10.81	1
ISSW163P	● 230V 2P + E 16A Surface Socket	£10.81	1
ISSW164N	● 415V 3P + E 16A Surface Socket	£11.77	1
ISSW165N	● 415V 3P + N + E 16A Surface Socket	£12.72	1
ISSW323F	● 110V 2P + E 32A Surface Socket	£14.88	1
ISSW323P	● 230V 2P + E 32A Surface Socket	£14.88	1
ISSW324N	● 415V 3P + E 32A Surface Socket	£15.52	1
ISSW325N	● 415V 3P + N + E 32A Surface Socket	£17.17	1
ISSW633P	● 230V 2P + E 63A Surface Socket	£37.02	1
ISSW634N	● 415V 3P + E 63A Surface Socket	£38.99	1
ISSW635N	● 415V 3P + N + E 63A Surface Socket	£41.82	1
ISSW1253P	● 230V 2P + E 125A Surface Socket	£98.85	1
ISSW1255N	● 415V 3P + N + E 125A Surface Socket		1

IP67 Panel Sockets



CE Certified

IEC 60309 / Easy Installation / Long Life / High Reliability
Suited to Extreme Conditions / High Quality Housing

Part Number	Description	Price	Per
IPSW163F	● 110V 2P + E 16A Panel Socket	£5.90	1
IPSW163P	● 230V 2P + E 16A Panel Socket	£5.90	1
IPSW164N	● 415V 3P + E 16A Panel Socket	£6.65	1
IPSW165N	● 415V 3P + N + E 16A Panel Socket	£7.66	1
IPSW323F	● 110V 2P + E 32A Panel Socket	£8.65	1
IPSW323P	● 230V 2P + E 32A Panel Socket	£8.65	1
IPSW324N	● 415V 3P + E 32A Panel Socket	£9.12	1
IPSW325N	● 415V 3P + N + E 32A Panel Socket	£9.65	1
IPSW633P	● 230V 2P + E 63A Panel Socket	£19.90	1
IPSW634N	● 415V 3P + E 63A Panel Socket	£22.42	1
IPSW635N	● 415V 3P + N + E 63A Panel Socket	£24.44	1
IPSW1253P	● 230V 2P + E 125A Panel Socket	£79.24	1
IPSW1255N	● 415V 3P + N + E 125A Panel Socket	£88.51	1

listed in
LUCKINSlive™

Switched Interlocked Sockets
IP65 Switched Interlocked Sockets (RCCB Protected)


Unique removable aluminium key!
Once removed the control lever can no longer be activated

IP65 rating / Complete with 30mA RCD pre-fitted
Manufactured from self-extinguishing & shock resistant thermoplastic
Four cable inlets: M25 / M32 top, bottom and side entry
Inox screws resist chemical agents / Accepts IP67 Plugs
Compact size / Includes spirit level to make installation easier

Part Number	Description	Price	Per
SISRW163P	● 230V 2P + E 16A 6h (40A 30mA 2P RCD)	£180.20	1
SISRW165V	● 415V 3P + N + E 16A 6h (40A 30mA 4P RCD)	£190.80	1
SISRW323P	● 230V 2P + E 32A 6h (40A 30mA 2P RCD)	£201.40	1
SISRW325V	● 415V 3P + N + E 32A 6h (40A 30mA 4P RCD)	£212.00	1
SISKEY	Spare Keys	£3.18	1

IP67 Switched Interlocked Sockets (with key)


IP67 rating / Compact size.
Manufactured from self-extinguishing & shock resistant thermoplastic. Unique aluminium key - once removed the control lever can no longer be activated.
Two cable inlets M25 / M32 one top and bottom. Inox screws resist chemical agents.

Part Number	Description	Price	Per
SISW163PF	● 230V 2P + E 16A 6h	£65.72	1
SISW164VF	● 415V 3P + E 16A 6h	£74.20	1
SISW165VF	● 415V 3P + N + E 16A 6h	£77.38	1
SISW323PF	● 230V 2P + E 32A 6h	£80.56	1
SISW324VF	● 415V 3P + E 32A 6h	£87.98	1
SISW325VF	● 415V 3P + N + E 32A 6h	£91.16	1

IP67 Weatherproof Switched Interlocked Sockets


IP67 rated polycarbonate enclosure
3 x M25 + 1 x M32 cable entries
3 x M25 blanking plugs + 1 x M32 cable gland included
Quick turn screws reduces installation time
Padlockable in the OFF position

Part Number	Description	Price	Per
SISW163P	● 230V 2P + E 16A 6h	£58.30	1
SISW165N	● 415V 3P + N + E 16A 6h	£62.54	1
SISW323P	● 230V 2P + E 32A 6h	£63.60	1
SISW325N	● 415V 3P + N + E 32A 6h	£68.90	1

IP44 Padlockable Switched Interlocked Sockets


IP44 Rated ABS Enclosure / CE Approved
Padlockable in the ON and OFF positions for added security with multiple cable entries for easier installation.

Part Number	Description	Price	Per
SIS163PK	● 230V 2P + E 16A 6h	£40.28	1
SIS165VK	● 415V 3P + N + E 16A 6h	£46.64	1
SIS325VK	● 415V 3P + N + E 32A 6h	£59.36	1



For use with both the **IP67 weatherproof** switched interlocked sockets and the **IP44 padlockable** switched interlocked sockets

EUBPADLOCK Padlock (3 per pack) £10.40 Pack

RCD Sockets and Enclosures



Europa 13A RCD sockets provide added protection against the risk of electric shock. The sockets are simple to install, fitting standard socket outlet boxes for surface or flush mounting.

13A RCD sockets are particularly suitable for use where tools are being used outdoors, e.g. hedge trimmers and lawnmowers.

13A Plastic RCD Spur Outlet



CE Certified / BS7288

30mA trip / Test facility / ON/OFF indicator / Rated voltage 240V, 50Hz
Rated current 13A / Trip time less than 40mS
Mechanically latching (Passive) / Spur will not trip in the event of a power failure

Part Number	Description	Price	Per
RCDFSP	13A Single RCD Spur Outlet	£27.36	1

Insulated Socket Enclosures (IP65)



IP65 outdoor enclosures / Accommodates standard socket, spur, switches and RCDs / 20mm cable entries located top, bottom, side and back / Grey enclosure / Corrosion resistant / Padlockable for added security (1 padlock). The ECWSK1 & SK2 have an improved design to accommodate most styles of 13A sockets and moulded plugs.

Part Number	Description	Price	Per
ECWSK1	1 Gang Socket Enclosure	£10.04	1
ECWSK2	2 Gang Socket Enclosure	£12.99	1
ECWSK21	2 x 1 Gang Socket Enclosure	£16.60	1

Direct to site and special deliveries available
Low minimum order of £25 nett



13A RCD Sockets



BS7288 / CE Certified

Rated voltage: 230V 50Hz
Trip current 30mA / Trip speed: 40mS
ON/OFF indicator / Test facility
Mechanically latching (Passive) (Sockets will not trip in the event of a power failure)

Part Number	Description	Price	Per
RCD13A1GS	1 Plastic RCD 13A Unswitched Single Socket	£23.83	1
RCD13AP1GS	2 Plastic RCD 13A Single Socket Switched	£27.91	1
RCD13ASS	3 Plastic RCD 13A Double Socket Switched	£29.02	1
RCD13AMC1GS	4 Metal Clad RCD 13A Single Socket Switched	£36.13	1
RCD13AMC	5 Metal Clad RCD 13A Double Socket Switched	£36.63	1

Motor Starters & Control Gear
Direct On Line Motor Starters



CE Certified
ABS enclosed DOL's will accept the range of TA1 front mounting auxiliaries (page 89).
Please Note: Overload relays must be ordered separately (page 88).
NB: The overload relay setting must not exceed the contactor rating

CE Certified
Metal Clad DOL's will accept the range of TA8 side mounting auxiliaries (page 89).
Please Note: Overload relays must be ordered separately (page 88).
NB: The overload relay setting must not exceed the contactor rating.

ABS Enclosure 2 Button 110V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123F7	12A 5.5kW 110V AC Coil	£36.57	1
LE1-D253F7	25A 11kW 110V AC Coil	£60.70	1

Metal Enclosure 2 Button 240V DOL (IP54)

Part Number	Description	Price	Per
BE1-D123U7	12A 5.5kW 240V AC Coil	£53.72	1
BE1-D253U7	25A 11kW 240V AC Coil	£77.30	1

ABS Enclosure 2 Button 240V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123U7	12A 5.5kW 240V AC Coil	£37.95	1
LE1-D253U7	25A 11kW 240V AC Coil	£60.70	1

Metal Enclosure 2 Button 415V DOL (IP54)

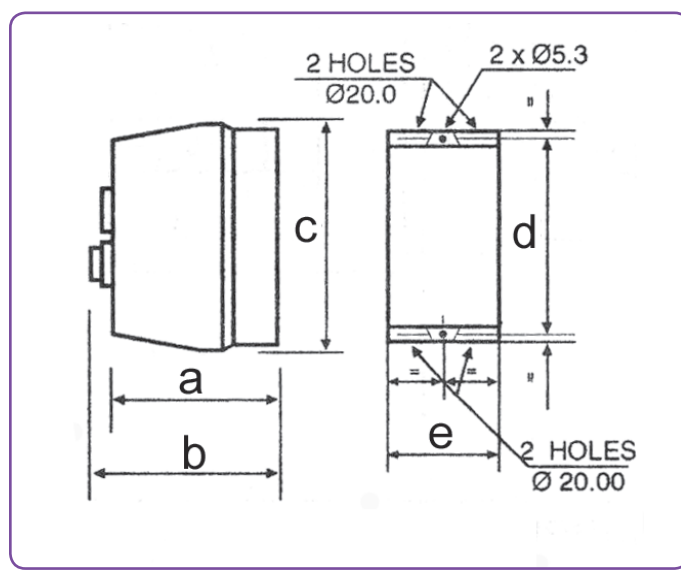
Part Number	Description	Price	Per
BE1-D123N7	12A 5.5kW 415V AC Coil	£53.72	1
BE1-D253N7	25A 11kW 415V AC Coil	£77.30	1

ABS Enclosure 2 Button 415V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123N7	12A 5.5kW 415V AC Coil	£37.95	1
LE1-D253N7	25A 11kW 415V AC Coil	£60.70	1

ABS & Metal Clad DOL Starter Dimensions

Measurement	Metal Clad 12A	Metal Clad 25A	ABS 12A	ABS 25A
a	116mm	135mm	120mm	135mm
b	128mm	147mm	140mm	155mm
c	214mm	252mm	166mm	185mm
d	134mm	162mm	150mm	165mm
e	123mm	156mm	88mm	101mm



Direct On Line Motor Starters With Isolator



CE Certified

The Europa Safe Start direct on line motor starter (DOL) is designed to switch a single or three phase induction motor at rated voltage; it comprises of a 3P + Sw. neutral isolator (Padlockable in the OFF position), steel enclosure, contactor, start contact, link wires and stop / start buttons.

Various factors should be considered when selecting the correct DOL.

The size of unit is dictated by the motor that is being supplied.

Lid: RAL 7035 / Base: RAL 7012

Europa Safe Start DOL's with isolator will accept the range of TA8 side mounting auxiliaries (Page 89).

Please Note: Overload relays must be ordered separately (Page 88).

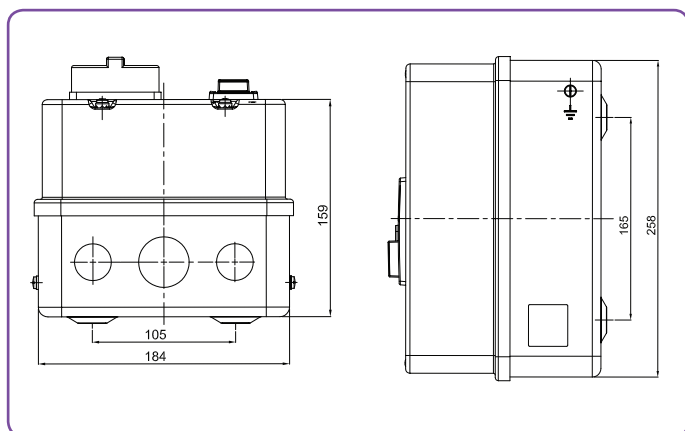
NB: The overload relay setting must not exceed the contactor rating

Metal Enclosure 2 Button 240V DOL + Isolator (IP54)

Part Number	Description	Price	Per
BE2-D123U7	12A 5.5kW 240V AC Coil	£145.37	1
BE2-D253U7	25A 11kW 240V AC Coil	£163.93	1

Metal Enclosure 2 Button 415V DOL + Isolator (IP54)

Part Number	Description	Price	Per
BE2-D123N7	12A 5.5kW 415V AC Coil	£145.37	1
BE2-D253N7	25A 11kW 415V AC Coil	£163.93	1



Reversing Starters

Metal Clad Reversing Starters (IP54)



CE Certified

IP54 metal clad enclosure

With or without isolator

Compact design / Cover: RAL 7035 / Base: RAL 7012

5.5 & 11kW starter ratings

Standard coil voltages: 230V or 415V 50/60Hz

Suitable for 3 phase motors only

Please Note: Overload Relays must be ordered separately (Page 88).

NB: The overload relay setting must not exceed the contactor rating

Part Number	Description	Price	Per
MS-DOLRS5.5P7MC	12A 5.5kW 230V AC Coil	£112.73	1
MS-DOLRS5.5N7MC	12A 5.5kW 415V AC Coil	£112.73	1
MS-DOLRS11P7MC	25A 11kW 230V AC Coil	£164.30	1
MS-DOLRS11N7MC	25A 11kW 415V AC Coil	£164.30	1
MS-DOLRS5.5P7ISOMC	Reversing Starter + ISO 12A 5.5kW 230V AC Coil	£147.66	1
MS-DOLRS5.5N7ISOMC	Reversing Starter + ISO 12A 5.5kW 415V AC Coil	£147.66	1
MS-DOLRS11P7ISOMC	Reversing Starter + ISO 25A 11kW 230V AC Coil	£184.44	1
MS-DOLRS11N7ISOMC	Reversing Starter + ISO 25A 11kW 415V AC Coil	£184.44	1

Metal Clad Reversing Starter Dimensions (mm)

Type	Height	Width	Depth	Depth (Inc Switch)
Without Isolator	250mm	180mm	165mm	-
With Isolator	240mm	310mm	165mm	200mm

Compact Star Delta Starters

Metal Clad Compact Star Delta Starters (IP54)



CE Certified

IP54 metal clad enclosure / Compact design

11, 15 & 22kW starter ratings

Cover: RAL 7035 / Base: RAL 7012

Standard coil voltages: 230V or 415V 50/60Hz

Please Note: Overload relays must be ordered separately (Page 88)

NB: Overload relay based on 58% of FLC Setting.

Part Number	Description	Price	Per
MS-SDS11P7MC	11kW 230V AC Coil	£269.24	1
MS-SDS11N7MC	11kW 415V AC Coil	£269.24	1
MS-SDS15P7MC	15kW 230V AC Coil	£281.96	1
MS-SDS15N7MC	15kW 415V AC Coil	£281.96	1
MS-SDS22P7MC	22kW 230V AC Coil	£306.34	1
MS-SDS22N7MC	22kW 415V AC Coil	£306.34	1
MS-SDS11P7ISOMC	SDS + ISO 11kW 230V AC Coil	£255.46	1
MS-SDS11N7ISOMC	SDS + ISO 11kW 415V AC Coil	£255.46	1
MS-SDS15P7ISOMC	SDS + ISO 15kW 230V AC Coil	£295.21	1
MS-SDS15N7ISOMC	SDS + ISO 15kW 415V AC Coil	£295.21	1
MS-SDS22P7ISOMC	SDS + ISO 22kW 230V AC Coil	£341.32	1
MS-SDS22N7ISOMC	SDS + ISO 22kW 415V AC Coil	£341.32	1

Metal Clad Compact Star Delta Starter Dimensions (mm)

	Height	Width	Depth	Depth (Inc Switch)
Without Isolator	240mm	310mm	165mm	-
With Isolator	240mm	310mm	165mm	200mm

Star Delta Starters in Metal Enclosure

Star Delta Starters in Metal Enclosure (IP65)



CE Certified

IP65 rated enclosure (When fully sealed)

Epoxy coated strong steel enclosure / RAL 7035

Supplied complete with overload relay & with internal wiring terminated to the terminal block.

Part Number	Description	Price	Per
SDS11EIP7	11kW 230V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£602.31	1
SDS11EIN7	11kW 415V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£568.64	1
SDS15EIP7	15kW 230V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£614.27	1
SDS15EIN7	15kW 415V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£594.96	1
SDS22EIP7	22kW 230V Coil (with Isolator) TR2-D25322 Overload 17 - 25A	£837.63	1
SDS22EIN7	22kW 415V Coil (with Isolator) TR2-D25322 Overload 17 - 25A	£814.99	1
SDS30EIP7	30kW 230V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1130.38	1
SDS30EIN7	30kW 415V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1098.48	1
SDS37EIP7	37kW 230V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1384.68	1
SDS37EIN7	37kW 415V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1344.61	1
SDS45EIP7	45kW 230V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£1384.68	1
SDS45EIN7	45kW 415V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£1344.61	1
SDS55EIP7	55kW 230V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£2008.70	1
SDS55EIN7	55kW 415V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£1945.10	1

NB: Europa star delta starters are built using industry proven quality components to guarantee the safety and protection you need for your applications.

Star Delta Starter Dimensions

kW Rating	Height mm	Width mm	Depth mm
11kW	400	300	200
15kW			
22kW			
30kW			
37kW	600	400	200
45kW			
55kW			

Star Delta Starter Thermal Overload Selection Chart

Please consult the motor manufacturer for Full Load Current (FLC) or from the motor rating plate. Overload based on 58% of the FLC.

Thermal Overload Part Number	Relay Range	Motor Rating	
		400V/3PH AC-3	
		kW	Hp
TR2-D09306	1.0 to 1.6	1.1	1.5
TR2-D09307	1.6 to 2.5	1.5	2.0
TR2-D09307	1.6 to 2.5	1.8	2.5
TR2-D09308	2.5 to 4.0	2.2	3.0
TR2-D09308	2.5 to 4.0	3.0	4.0
TR2-D09310	4.0 to 6.0	3.7	5.0
TR2-D09310	4.0 to 6.0	4.0	5.5
TR2-D09312	5.5 to 8.0	5.5	7.5
TR2-D09314	7.0 to 10.0	7.5	10.0
TR2-D18321	12.0 to 18.0	11.0	15.0
TR2-D18321	12.0 to 18.0	15.0	20.0
TR2-D25322	17.0 to 25.0	22.0	30.0

Manual Motor Starter Accessories

MMS Range Accessories



Scan the QR code to view a demonstration of our MMS range

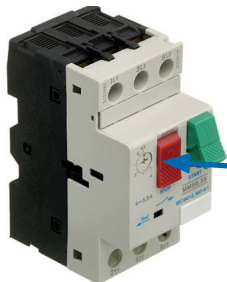


Part Number	Description	Price	Per
1 MMSENC	IP55 enclosure for MMS 0.1 - 32A	£10.10	1
2 MMSAUXAE11	Auxiliary contact 1N/O + 1N/C (Top Mount)	£3.50	1
2 MMSAUXAE20	Auxiliary contact 2 N/O (Top Mount)	£3.50	1
3 MMSAUX11SM	Auxiliary Contact 1N/O + 1N/C (Side Mount)	£9.45	1
3 MMSAUX20SM	Auxiliary Contact 2N/O (Side Mount)	£9.45	1
4 MMSU24	Under voltage trip 24V (Side Mount)	£14.70	1
4 MMSU110	Under voltage trip 110V (Side Mount)	£14.70	1
4 MMSU240	Under voltage trip 220-240V (Side Mount)	£14.70	1
4 MMSU415	Under voltage trip 380-415V (Side Mount)	£14.70	1

Part Number	Setting Range (A)	Operating Current Of Short-circuit Release (A)
MMS016S	0.1-0.16A	1.9
MMS025S	0.16-0.25A	2.6
MMS04S	0.25-0.4A	4.4
MMS063S	0.4-0.63A	8
MMS1S	0.63-0.1A	11
MMS1.6S	0.1-1.6A	19
MMS2.5S	1.6-2.5A	30
MMS4S	2.5-4A	42
MMS6.3S	4-6.3A	69
MMS10S	6.3-10A	110
MMS14S	10-14A	210
MMS18S	14-18A	210
MMS23S	18-23A	220
MMS25S	20-25A	330
MMS32S	25-32A	330

DOL Manual Motor Starters

MMS Range up to 32A 15kW



CE Certified

Main application:

Thermal and short circuit protection of AC electric motors with power up to 15kW (380 / 440V) 32A, it can also be used as a main switch. Simple snap fitting on 35mm din rail.

Part Number	Description	Price	Per
MMS016S	0.10 - 0.16A	£26.18	1
MMS025S	0.16 - 0.25A	£26.18	1
MMS04S	0.25 - 0.40A	£26.18	1
MMS063S	0.40 - 0.63A	£26.18	1
MMS1S	0.63 - 1.00A	£27.24	1
MMS1.6S	1.00 - 1.60A	£27.24	1
MMS2.5S	1.60 - 2.50A	£27.24	1
MMS4S	2.50 - 4.00A	£27.24	1
MMS6.3S	4.00 - 6.30A	£27.24	1
MMS10S	6.00 - 10.00A	£33.28	1
MMS14S	9.00 - 14.00A	£33.28	1
MMS18S	13.00 - 18.00A	£33.28	1
MMS23S	17.00 - 23.00A	£33.28	1
MMS25S	20.00 - 25.00A	£36.46	1
MMS32S	24.00 - 32.00A	£38.05	1

Contactors & Accessories

Need assistance selecting the correct Contactor?

For us to deal with your enquiry as efficiently as possible, please ensure you can answer the key questions below and then call our technical department on **01582 692 444**

- What current rating is required?
- What is the load type (AC-1, AC-3, heating, motors, LED lighting)?
- What coil voltage is required?
- How many poles are needed?
- Do you require any auxiliary contacts?
- Do you need an overload?
- Do you require an enclosure? (Have you seen our enclosed range on page 87)



Contactor Fact File:

- IEC 60947-4-1 / EN 60947-4-1
- CE & CSA Approved
- UL listed
- IP20 rated
- Din rail or screw mounting
- Operating temperature up to 55°C
- Clearly marked power and auxiliary terminals
- Blank identification tag for marking
- Common coils for same frame size contactors
- Easy front accessibility for coil replacement

Please scan the QR code to view our **technical data sheet**

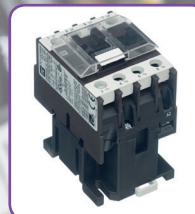


TC1-D Range & TP1 Contactor Dimensions					
Amp	Height	3 Pole Width	4 Pole Width	Depth AC	Depth DC
9-12A	74mm	45mm	45mm	80mm	115mm
18A	74mm	45mm	-	85mm	120mm
25A	84mm	56mm	56mm	93mm	130mm
32A	84mm	56mm	-	98mm	135mm
38A	84mm	56mm	-	98mm	135mm
40-65A	127mm	75mm	85mm	114mm	171mm
80A	127mm	85mm	96mm	125mm	181mm
95A	127mm	85mm	-	125mm	-

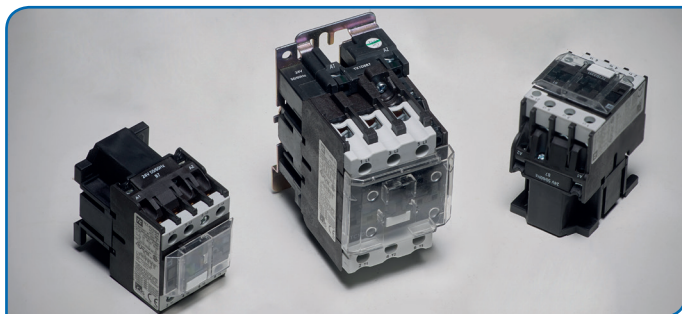
TC1-D Range Average AC Coil Consumption 50 / 60Hz				
Contactor 50/60Hz	TCA2 Control Relay	TC1-D09 to D18	TC1-D25 to D38	TC1-D40 to D95
Pull In / Holding	70 / 8VA	70 / 8VA	100 / 8.5VA	245 / 26VA

TP1-D Range Average DC Coil Consumption			
DC Contactor	TP1-D09 to D18	TP1-D25 to D38	TP1-D40 to D80
Pull In / Holding	9 / 9W	11 / 11W	22 / 22W

TC1-D Range Contactor Operating Times	Closing Times (milliseconds)	Opening Times (milliseconds)
TC1-D09 / D12 / D18	12 - 22	4 - 12
TC1-D25 / D32 / D38	15 - 24	5 - 19
TC1-D40 / D50 / D65	20 - 26	8 - 12
TC1-D80 / D95	20 - 35	6 - 20



TC1 3 Pole Contactors with AC Coils



TC1 9kW 18A AC-3 (32A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1
Made in India
Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D1810B7	24V AC 1N/O Aux	£19.99	1
TC1-D1810E7	48V AC 1N/O Aux	£19.99	1
TC1-D1810F7	110V AC 1N/O Aux	£19.99	1
TC1-D1810P7	230V AC 1N/O Aux	£19.99	1
TC1-D1810N7	415V AC 1N/O Aux	£19.99	1

TC1-D1801B7	24V AC 1N/C Aux	£19.99	1
TC1-D1801E7	48V AC 1N/C Aux	£19.99	1
TC1-D1801F7	110V AC 1N/C Aux	£19.99	1
TC1-D1801P7	230V AC 1N/C Aux	£19.99	1
TC1-D1801N7	415V AC 1N/C Aux	£19.99	1

TC1 11kW 25A AC-3 (40A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1
Made in India
Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D2510B7	24V AC 1N/O Aux	£27.27	1
TC1-D2510E7	48V AC 1N/O Aux	£27.27	1
TC1-D2510F7	110V AC 1N/O Aux	£27.27	1
TC1-D2510P7	230V AC 1N/O Aux	£27.27	1
TC1-D2510N7	415V AC 1N/O Aux	£27.27	1

TC1-D2501B7	24V AC 1N/C Aux	£27.27	1
TC1-D2501F7	110V AC 1N/C Aux	£27.27	1
TC1-D2501P7	230V AC 1N/C Aux	£27.27	1
TC1-D2501N7	415V AC 1N/C Aux	£27.27	1

TC1 15kW 32A AC-3 (50A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1
Made in India
Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D3210B7	24V AC 1N/O Aux	£38.99	1
TC1-D3210E7	48V AC 1N/O Aux	£38.99	1
TC1-D3210F7	110V AC 1N/O Aux	£38.99	1
TC1-D3210P7	230V AC 1N/O Aux	£38.99	1
TC1-D3210N7	415V AC 1N/O Aux	£38.99	1

TC1-D3201B7	24V AC 1N/C Aux	£38.99	1
TC1-D3201E7	48V AC 1N/C Aux	£38.99	1
TC1-D3201F7	110V AC 1N/C Aux	£38.99	1
TC1-D3201P7	230V AC 1N/C Aux	£38.99	1
TC1-D3201N7	415V AC 1N/C Aux	£38.99	1

NB: 18.5 kW 38A AC-3 3 pole contactors available on request

TC1 4kW 9A AC-3 (25A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1
Made in India
Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D0910B7	24V AC 1N/O Aux	£14.05	1
TC1-D0910E7	48V AC 1N/O Aux	£14.05	1
TC1-D0910F7	110V AC 1N/O Aux	£14.05	1
TC1-D0910P7	230V AC 1N/O Aux	£14.05	1
TC1-D0910N7	415V AC 1N/O Aux	£14.05	1

TC1-D0901B7	24V AC 1N/C Aux	£14.05	1
TC1-D0901E7	48V AC 1N/C Aux	£14.05	1
TC1-D0901F7	110V AC 1N/C Aux	£14.05	1
TC1-D0901P7	230V AC 1N/C Aux	£14.05	1
TC1-D0901N7	415V AC 1N/C Aux	£14.05	1

TC1 5.5kW 12A AC-3 (25A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1
Made in India
Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D1210B7	24V AC 1N/O Aux	£16.01	1
TC1-D1210E7	48V AC 1N/O Aux	£16.01	1
TC1-D1210F7	110V AC 1N/O Aux	£16.01	1
TC1-D1210P7	230V AC 1N/O Aux	£16.01	1
TC1-D1210N7	415V AC 1N/O Aux	£16.01	1

TC1-D1201B7	24V AC 1N/C Aux	£16.01	1
TC1-D1201E7	48V AC 1N/C Aux	£16.01	1
TC1-D1201F7	110V AC 1N/C Aux	£16.01	1
TC1-D1201P7	230V AC 1N/C Aux	£16.01	1
TC1-D1201N7	415V AC 1N/C Aux	£16.01	1

Contactor Loads -

AC-3 = Motor load (Inductive)

AC-1 = Heating load (Resistive) (Standard lighting)



TC1 22kW 40A AC-3 (60A AC-1) 3 Pole



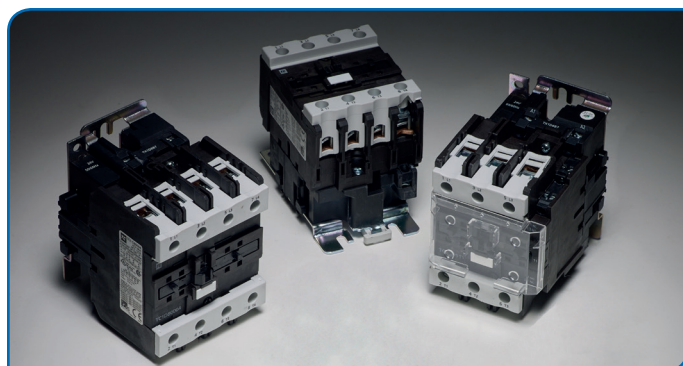
CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D4011B7	24V AC 1N/O + 1N/C Aux	£54.16	1
TC1-D4011E7	48V AC 1N/O + 1N/C Aux	£54.16	1
TC1-D4011F7	110V AC 1N/O + 1N/C Aux	£54.16	1
TC1-D4011P7	230V AC 1N/O + 1N/C Aux	£54.16	1
TC1-D4011N7	415V AC 1N/O + 1N/C Aux	£54.16	1

TC1 4 Pole Contactors with AC Coils



TC1 25kW 50A AC-3 (80A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D5011B7	24V AC 1N/O + 1N/C Aux	£65.08	1
TC1-D5011E7	48V AC 1N/O + 1N/C Aux	£65.08	1
TC1-D5011F7	110V AC 1N/O + 1N/C Aux	£65.08	1
TC1-D5011P7	230V AC 1N/O + 1N/C Aux	£65.08	1
TC1-D5011N7	415V AC 1N/O + 1N/C Aux	£65.08	1

TC1 4kW 9A AC-3 (25A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D09004B7	24V AC 4N/O	£21.52	1
TC1-D09004E7	48V AC 4N/O	£21.52	1
TC1-D09004F7	110V AC 4N/O	£21.52	1
TC1-D09004P7	230V AC 4N/O	£21.52	1
TC1-D09004N7	415V AC 4N/O	£21.52	1

TC1 37kW 65A AC-3 (80A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D6511B7	24V AC 1N/O + 1N/C Aux	£88.21	1
TC1-D6511E7	48V AC 1N/O + 1N/C Aux	£88.21	1
TC1-D6511F7	110V AC 1N/O + 1N/C Aux	£88.21	1
TC1-D6511P7	230V AC 1N/O + 1N/C Aux	£88.21	1
TC1-D6511N7	415V AC 1N/O + 1N/C Aux	£88.21	1

TC1-D09008B7	24V AC 2N/O + 2N/C	£29.15	1
TC1-D09008E7	48V AC 2N/O + 2N/C	£29.15	1
TC1-D09008F7	110V AC 2N/O + 2N/C	£29.15	1
TC1-D09008P7	230V AC 2N/O + 2N/C	£29.15	1
TC1-D09008N7	415V AC 2N/O + 2N/C	£29.15	1

TC1 45kW 80A AC-3 (125A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D8011B7	24V AC 1N/O + 1N/C Aux	£110.91	1
TC1-D8011E7	48V AC 1N/O + 1N/C Aux	£110.91	1
TC1-D8011F7	110V AC 1N/O + 1N/C Aux	£110.91	1
TC1-D8011P7	230V AC 1N/O + 1N/C Aux	£110.91	1
TC1-D8011N7	415V AC 1N/O + 1N/C Aux	£110.91	1

TC1 5.5kW 12A AC-3 (25A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D12004B7	24V AC 4N/O	£23.07	1
TC1-D12004E7	48V AC 4N/O	£23.07	1
TC1-D12004F7	110V AC 4N/O	£23.07	1
TC1-D12004P7	230V AC 4N/O	£23.07	1
TC1-D12004N7	415V AC 4N/O	£23.07	1

TC1 45kW 95A AC-3 (125A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TC1-D9511B7	24V AC 1N/O + 1N/C Aux	£133.80	1
TC1-D9511F7	110V AC 1N/O + 1N/C Aux	£133.80	1
TC1-D9511P7	230V AC 1N/O + 1N/C Aux	£133.80	1
TC1-D9511N7	415V AC 1N/O + 1N/C Aux	£133.80	1

TC1-D12006B7	24V AC 4N/C	£29.04	1
TC1-D12006F7	110V AC 4N/C	£29.04	1
TC1-D12006P7	230V AC 4N/C	£29.04	1
TC1-D12006N7	415V AC 4N/C	£29.04	1

TC1-D12008B7	24V AC 2N/O + 2N/C	£29.04	1
TC1-D12008E7	48V AC 2N/O + 2N/C	£29.04	1
TC1-D12008F7	110V AC 2N/O + 2N/C	£29.04	1
TC1-D12008P7	230V AC 2N/O + 2N/C	£29.04	1
TC1-D12008N7	415V AC 2N/O + 2N/C	£29.04	1

TC1 11kW 25A AC-3 (40A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India / maximum rated operational voltage 690V
Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D25004B7	24V AC 4N/O	£41.82	1
TC1-D25004E7	48V AC 4N/O	£41.82	1
TC1-D25004F7	110V AC 4N/O	£41.82	1
TC1-D25004P7	230V AC 4N/O	£41.82	1
TC1-D25004N7	415V AC 4N/O	£41.82	1
TC1-D25006B7	24V AC 4N/C	£48.12	1
TC1-D25006F7	110V AC 4N/C	£48.12	1
TC1-D25006P7	230V AC 4N/C	£48.12	1
TC1-D25006N7	415V AC 4N/C	£48.12	1
TC1-D25008B7	24V AC 2N/O + 2N/C	£48.12	1
TC1-D25008E7	48V AC 2N/O + 2N/C	£48.12	1
TC1-D25008F7	110V AC 2N/O + 2N/C	£48.12	1
TC1-D25008P7	230V AC 2N/O + 2N/C	£48.12	1
TC1-D25008N7	415V AC 2N/O + 2N/C	£48.12	1

TC1 22kW 40A AC-3 (60A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India / Maximum rated operational voltage 690V
Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D40004B7	24V AC 4N/O	£82.93	1
TC1-D40004E7	48V AC 4N/O	£82.93	1
TC1-D40004F7	110V AC 4N/O	£82.93	1
TC1-D40004P7	230V AC 4N/O	£82.93	1
TC1-D40004N7	415V AC 4N/O	£82.93	1
TC1-D40008B7	24V AC 2N/O + 2N/C	£96.73	1
TC1-D40008E7	48V AC 2N/O + 2N/C	£96.73	1
TC1-D40008F7	110V AC 2N/O + 2N/C	£96.73	1
TC1-D40008P7	230V AC 2N/O + 2N/C	£96.73	1
TC1-D40008N7	415V AC 2N/O + 2N/C	£96.73	1

TC1 37kW 65A AC-3 (80A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India / Maximum rated operational voltage 690V
Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D65004B7	24V AC 4N/O	£137.56	1
TC1-D65004E7	48V AC 4N/O	£137.56	1
TC1-D65004F7	110V AC 4N/O	£137.56	1
TC1-D65004P7	230V AC 4N/O	£137.56	1
TC1-D65004N7	415V AC 4N/O	£137.56	1
TC1-D65008B7	24V AC 2N/O + 2N/C	£174.26	1
TC1-D65008E7	48V AC 2N/O + 2N/C	£174.26	1
TC1-D65008F7	110V AC 2N/O + 2N/C	£174.26	1
TC1-D65008P7	230V AC 2N/O + 2N/C	£174.26	1
TC1-D65008N7	415V AC 2N/O + 2N/C	£174.26	1

TC1 45kW 80A AC-3 (125A AC-1) 4 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India / Maximum rated operational voltage 690V
Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TC1-D80004B7	24V AC 4N/O	£250.16	1
TC1-D80004F7	110V AC 4N/O	£250.16	1
TC1-D80004N7	415V AC 4N/O	£250.16	1
TC1-D80004P7	230V AC 4N/O	£250.16	1
TC1-D80008P7	230V AC 2N/O + 2N/C	£294.15	1
TC1-D80008B7	24V AC 2N/O + 2N/C	£294.15	1
TC1-D80008F7	110V AC 2N/O + 2N/C	£294.15	1
TC1-D80008N7	415V AC 2N/O + 2N/C	£294.15	1

Replacement AC Coils for TC1 Contactors



TC1D09-D18 (AC) 50/60Hz



Part Number	Description	Price	Per
TX1D2B7	24V AC	£9.60	1
TX1D2E7	48V AC	£9.60	1
TX1D2F7	110V AC	£9.60	1
TX1D2P7	230V AC	£9.60	1
TX1D2Q7	380V AC	£9.60	1
TX1D2N7	415V AC	£9.60	1

TC1D25-D32 (AC) 50/60Hz



Part Number	Description	Price	Per
TX1D4B7	24V AC	£15.83	1
TX1D4E7	48V AC	£15.83	1
TX1D4F7	110V AC	£15.83	1
TX1D4P7	230V AC	£15.83	1
TX1D4Q7	380V AC	£15.83	1
TX1D4N7	415V AC	£15.83	1

TC1D40-D95 (AC) 50/60Hz



Part Number	Description	Price	Per
TX1D6B7	24V AC	£29.42	1
TX1D6E7	48V AC	£29.42	1
TX1D6F7	110V AC	£29.42	1
TX1D6P7	230V AC	£29.42	1
TX1D6Q7	380V AC	£29.42	1
TX1D6N7	415V AC	£29.42	1

TP1 3 Pole Contactors with DC Coils

For spare DC Coils please contact sales for availability



TP1 4kW 9A AC-3 (25A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D0910JD	12V DC 1N/O Aux	£37.10	1
TP1-D0910BD	24V DC 1N/O Aux	£37.10	1
TP1-D0910ED	48V DC 1N/O Aux	£37.10	1
TP1-D0910FD	110V DC 1N/O Aux	£37.10	1
TP1-D0901JD	12V DC 1N/C Aux	£37.10	1
TP1-D0901BD	24V DC 1N/C Aux	£37.10	1
TP1-D0901ED	48V DC 1N/C Aux	£37.10	1
TP1-D0901FD	110V DC 1N/C Aux	£37.10	1

TP1 5.5kW 12A AC-3 (25A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D1210JD	12V DC 1N/O Aux	£40.28	1
TP1-D1210BD	24V DC 1N/O Aux	£40.28	1
TP1-D1210ED	48V DC 1N/O Aux	£40.28	1
TP1-D1210FD	110V DC 1N/O Aux	£40.28	1
TP1-D1201JD	12V DC 1N/C Aux	£40.28	1
TP1-D1201BD	24V DC 1N/C Aux	£40.28	1
TP1-D1201ED	48V DC 1N/C Aux	£40.28	1
TP1-D1201FD	110V DC 1N/C Aux	£40.28	1

TP1 9kW 18A AC-3 (32A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D1810JD	12V DC 1N/O Aux	£53.00	1
TP1-D1810BD	24V DC 1N/O Aux	£53.00	1
TP1-D1810ED	48V DC 1N/O Aux	£53.00	1
TP1-D1810FD	110V DC 1N/O Aux	£53.00	1
TP1-D1801JD	12V DC 1N/C Aux	£53.00	1
TP1-D1801BD	24V DC 1N/C Aux	£53.00	1
TP1-D1801ED	48V DC 1N/C Aux	£53.00	1
TP1-D1801FD	110V DC 1N/C Aux	£53.00	1

TP1 11kW 25A AC-3 (40A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D2510JD	12V DC 1N/O Aux	£76.32	1
TP1-D2510BD	24V DC 1N/O Aux	£76.32	1
TP1-D2510ED	48V DC 1N/O Aux	£76.32	1
TP1-D2510FD	110V DC 1N/O Aux	£76.32	1
TP1-D2501JD	12V DC 1N/C Aux	£76.32	1
TP1-D2501BD	24V DC 1N/C Aux	£76.32	1
TP1-D2501ED	48V DC 1N/C Aux	£76.32	1
TP1-D2501FD	110V DC 1N/C Aux	£76.32	1

TP1 15kW 32A AC-3 (50A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D3210JD	12V DC 1N/O Aux	£103.88	1
TP1-D3210BD	24V DC 1N/O Aux	£103.88	1
TP1-D3210ED	48V DC 1N/O Aux	£103.88	1
TP1-D3210FD	110V DC 1N/O Aux	£103.88	1
TP1-D3201JD	12V DC 1N/C Aux	£103.88	1
TP1-D3201BD	24V DC 1N/C Aux	£103.88	1
TP1-D3201ED	48V DC 1N/C Aux	£103.88	1
TP1-D3201FD	110V DC 1N/C Aux	£103.88	1

TP1 22kW 40A AC-3 (60A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D4011JD	12V DC 1N/O + 1N/C Aux	£131.44	1
TP1-D4011BD	24V DC 1N/O + 1N/C Aux	£131.44	1
TP1-D4011ED	48V DC 1N/O + 1N/C Aux	£131.44	1
TP1-D4011FD	110V DC 1N/O + 1N/C Aux	£131.44	1

TP1 25kW 50A AC-3 (80A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D5011JD	12V DC 1N/O + 1N/C Aux	£172.78	1
TP1-D5011BD	24V DC 1N/O + 1N/C Aux	£172.78	1
TP1-D5011ED	48V DC 1N/O + 1N/C Aux	£172.78	1
TP1-D5011FD	110V DC 1N/O + 1N/C Aux	£172.78	1

TP1 37kW 65A AC-3 (80A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D6511JD	12V DC 1N/O + 1N/C Aux	£202.46	1
TP1-D6511BD	24V DC 1N/O + 1N/C Aux	£202.46	1
TP1-D6511ED	48V DC 1N/O + 1N/C Aux	£202.46	1
TP1-D6511FD	110V DC 1N/O + 1N/C Aux	£202.46	1

TP1 45kW 80A AC-3 (125A AC-1) 3 Pole



CE, CSA, UL Listed, EN 60947-4-1

Made in India

Maximum rated operational voltage 690V

Part Number	Description	Price	Per
TP1-D8011JD	12V DC 1N/O + 1N/C Aux	£232.14	1
TP1-D8011BD	24V DC 1N/O + 1N/C Aux	£233.20	1
TP1-D8011ED	48V DC 1N/O + 1N/C Aux	£232.14	1
TP1-D8011FD	110V DC 1N/O + 1N/C Aux	£232.14	1

Enclosed Contactors

Metal Clad Enclosed 4 Pole Contactors



IP54 rated for 25, 40 & 60A (Metal clad)

Screw on lid / Cover: RAL 7035 / Base: RAL 7012

IP65 for 80 & 125A (Steel enclosure) / Hinged lid / RAL 7035

230V AC coil / Neutral terminals x 4 / 1N/O + 1N/C auxiliary

For heating & lighting loads

Pre-assembled for quick and easy installation

Part Number	Description	Price	Per
CON254P7MC	IP54 AC-1 25A 4N/O H: 186 x W: 120 x D: 126mm	£70.76	1
CON404P7MC	IP54 AC-1 40A 4N/O H: 216 x W: 144 x D: 130mm	£93.81	1
CON604P7MC	IP54 AC-1 60A 4N/O H: 264 x W: 190 x D: 159mm	£153.97	1
CON804P7ME	IP65 AC-1 80A 4N/O H: 300 x W: 300 x D: 200mm	£201.14	1
CON1254P7ME	IP65 AC-1 125A 4N/O H: 400 x W: 300 x D: 200mm	£334.43	1

Contactors Enclosures

MNX Polycarbonate Contactors Enclosures (IP67)



Manufactured by Fibox

UL, CSA, KEMA, FIMKO, DNV, LR

IK08 / Flammability rating UL94-5V

Temp range: -40°C to +120°C (Short term) / -40°C to +80°C (Long term)
Adaptable enclosure for use with TC1-D range contactors (up to 65A) and accessories.

The back plate & din rail is pre-fitted in the enclosure for easy installation of contactors & overload relays (Sold separately).

Part Number	Description	Price	Per
PB25C	Contactors Enclosure for 9-32A H: 180 x W: 130 x D: 150mm	£47.36	1
PB65C	Contactors Enclosure for 40-65A H: 255 x W: 180 x D: 175mm	£93.70	1

Metal Clad Contactors Enclosures (IP54)



Pre-fitted with din rail for easy installation of contactors and overload relays

CE Certified

Lid: RAL 7035 / Base: RAL 7012

Powder coated steel enclosure



Part Number	Description	Price	Per
MC18C	Contact Enclosure for 9-18A H: 186 x W: 120 x D: 126mm	£26.88	1
MC38C	Contact Enclosure for 25-38A H: 216 x W: 144 x D: 130mm	£35.37	1
MC65C	Contact Enclosure 40-65A H: 264 x W: 190 x D: 159mm	£63.71	1

listed in
LUCKINSLIVE™

Accessories for TC1-D Range Contactors

TC1-D & TP1-D Range Contactor Overload Relays



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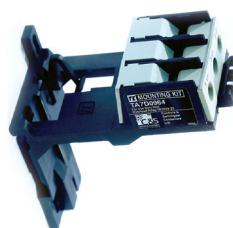


CE Certified

Overload relays do not fit on TC1 contactors with 2N/O + 2N/C main pole contacts

Part Number	Description	Price	Per
TR2-D09301	0.10-0.16A for use with D09-D38 Contactors	£19.72	1
TR2-D09302	0.16-0.25A for use with D09-D38 Contactors	£19.72	1
TR2-D09303	0.25-0.40A for use with D09-D38 Contactors	£19.72	1
TR2-D09304	0.40-0.63A for use with D09-D38 Contactors	£19.72	1
TR2-D09305	0.63-1.0A for use with D09-D38 Contactors	£19.72	1
TR2-D09306	1-1.65A for use with D09-D38 Contactors	£19.72	1
TR2-D09307	1.6-2.5A for use with D09-D38 Contactors	£19.72	1
TR2-D09308	2.5-4A for use with D09-D38 Contactors	£19.72	1
TR2-D09310	4-6A for use with D09-D38 Contactors	£19.72	1
TR2-D09312	5.5-8A for use with D09-D38 Contactors	£19.72	1
TR2-D09314	7-10A for use with D09-D38 Contactors	£19.72	1
TR2-D12316	9-13A for use with D09-D38 Contactors	£20.94	1
TR2-D18321	12-18A for use with D09-D38 Contactors	£25.23	1
TR2-D25322	17-25A for use with D09-D38 Contactors	£28.89	1
TR2-D32353	23-32A for use with D25-D38 Contactors	£37.31	1
TR2-D32355	28-36A for use with D32-D38 Contactors	£37.31	1
TR2-D40353	23-32.A for use with D40-D65 Contactors	£42.19	1
TR2-D40355	30-40A for use with D40-D65 Contactors	£42.19	1
TR2-D65357	37-50A for use with D50-D65 Contactors	£53.37	1
TR2-D65359	48-65A for use with D65 Contactors	£56.18	1
TR2-D65361	55-70A for use with D65 Contactors	£59.10	1
TR2-D80363	63-80A for use with D80 Contactors	£68.05	1
TR2-D95365	80-93A for use with D95 Contactors	£72.40	1

TR2 Overload Mounting Plates



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For remote mounting of TC1 overload relays
Din Rail Mounted or fixing screws (Not supplied)

Part Number	Description	Price	Per
TA7-D0964	From TR2-D09 - D18	£11.29	1
TA7-D3264	From TR2-D25 to D32 only	£22.59	1
TA7-D4064	From TR2-D40 to TR2-D95	£26.50	1

Control Relays (Ith: 10A)



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CE, EN 60947-4-1

Please note: The control relays are compatible with the TA1 and TA8 range of front and side mounting auxiliary blocks.

Part Number	Description	Price	Per
TCA2-DN22B7	24V AC 2N/O + 2N/C	£25.60	1
TCA2-DN22E7	48V AC 2N/O + 2N/C	£25.60	1
TCA2-DN22F7	110V AC 2N/O + 2N/C	£25.60	1
TCA2-DN22P7	230V AC 2N/O + 2N/C	£25.60	1
TCA2-DN31B7	24V AC 3N/O + 1N/C	£25.60	1
TCA2-DN31E7	48V AC 3N/O + 1N/C	£25.60	1
TCA2-DN31F7	110V AC 3N/O + 1N/C	£25.60	1
TCA2-DN31P7	230V AC 3N/O + 1N/C	£25.60	1
TCA2-DN40B7	24V AC 4N/O	£25.60	1
TCA2-DN40E7	48V AC 4N/O	£25.60	1
TCA2-DN40F7	110V AC 4N/O	£25.60	1
TCA2-DN40P7	230V AC 4N/O	£25.60	1

NB: For safety reasons the rating of an **overload** should not exceed the rating of the contactor it is being used with. However, in specific applications when a contactor is used based on the AC-1 rating (Resistive load) then an overload up to the AC-1 rating can be safely used.

For example: A contactor rated 9A AC-3 / 25A AC-1 can be used with a TR2-D25322 (17-25A) to protect a 25A AC-1 load.

Note: The IET Wiring Regulations (BS 7671) clause 552.1.1 states that every electric motor having a rating exceeding 0.37kW shall be provided with control equipment incorporating means of protection against the overload of the motor.

Front Mounting Auxiliary Contact Blocks



Please scan me to view the data sheet



CE, UL & CSA

Rated thermal current (Ith) 10A

Suitable for use with **TC1-D, TP1-D & F range** contactors (Adding 33mm to the depth of the TC1-D & TP1-D range).

Part Number	Description	Price	Per
TA1-DN11	1N/O + 1N/C	£5.82	1
TA1-DN13	1N/O + 3N/C	£10.38	1
TA1-DN20	2N/O	£5.82	1
TA1-DN02	2N/C	£5.82	1
TA1-DN22	2N/O + 2N/C	£10.38	1
TA1-DN31	3N/O + 1N/C	£10.38	1
TA1-DN40	4N/O	£10.38	1
TA1-DN04	4N/C	£10.38	1

Side Mounting Auxiliary Contact Blocks



Please scan me to view the data sheet



CE, UL & CSA

Rated thermal current (Ith) 10A

Suitable for use with **TC1-D range** contactors and **TP1-D09-D36** contactors (adding 12.5mm to the width).

Part Number	Description	Price	Per
TA8-DN11	1N/O + 1N/C	£5.82	1
TA8-DN20	2N/O	£5.82	1

NB: Not suitable for use with F Range contactors.

TC On Delay



Please scan me to view the data sheet



CE Certified

Suitable for use with **TC1-D, TP1-D & F range** contactors (Adding 52mm to the depth of the TC1-D & TP1-D range).

Part Number	Description	Price	Per
TA2-DT0	0.1 - 3 Sec	£24.20	1
TA2-DT2	1 - 30 Sec	£24.20	1
TA2-DT4	10 - 180 Sec	£24.20	1

TC Off Delay



Please scan me to view the data sheet



CE Certified

Suitable for use with **TC1-D, TP1-D & F range** contactors (Adding 52mm to the depth of the TC1-D & TP1-D range).

Part Number	Description	Price	Per
TA3-DR0	0.1 - 3 Sec	£24.20	1
TA3-DR2	1 - 30 Sec	£24.20	1
TA3-DR4	10 - 180 Sec	£24.20	1

Star Delta 0.1 - 30 Seconds



Please scan me to view the data sheet



CE Certified

Suitable for use with **TC1-D, TP1-D & F range** contactors (Adding 52mm to the depth of the TC1-D & TP1-D range).

Part Number	Description	Price	Per
TA2-DS2	Star Delta 0.1 - 30 Sec	£28.66	1

Mechanical Interlocks for TC1-D and TP1-D Range



Will fit both **TC1-D range** and **TP1-D range** contactors

Part Number	Description	Price	Per
LA9-D09978	TC1-D09 to D32	£9.81	1
LA9-D50978	TC1-D40 to D65	£16.00	1
LA9-D80978	TC1-D80 to D95	£16.00	1

Coil Suppressor



230V AC max / 400V DC max

Part Number	Description	Price	Per
LA9-D09980	Suppressor Block	£9.08	1

Mechanical Latching Blocks (Front Mounting)



Mechanically holds the contactor closed after the coil is de-energised. A separate pulse to the mechanical latching block (Greater than 100mS) is required to open (Release) the contactor.



CE Certified

Part Number	Description	Price	Per
LA6-DK01B	9 - 32A / 24V AC	£12.19	1
LA6-DK01U	9 - 32A / 230 - 240V AC	£12.19	1
LA6-DK01N	9 - 32A / 400 - 415V AC	£12.19	1

NB: Adds 40mm to the depth of the TC1- D contactor (9-32A).

Replacement Start Button for DOL Starters



Fits directly on top of TC contactors

Part Number	Description	Price	Per
LA9-D09906	Start Button for DOL	£3.12	1

Reversing Contactor Cable Sets



CE Certified

To be used with the appropriate mechanical interlock (See page 89)

Part Number	Description	Price	Per
TA9-D1269	9 - 12A	£13.25	1
TA9-D1869	18A	£15.90	1
TA9-D2569	25A	£18.55	1
TA9-D3269	32A	£26.50	1
TA9-D6569	40 - 65A	£47.70	1
TA9-D8069	80 - 95A	£74.20	1

LC1-F Range Contactors

3 Pole / 3 Normally Open (Supplied Without Coil)



F range contactors are supplied without a coil. The required coil voltage must be ordered separately. A supporting range of auxiliaries and accessories are available including spare terminal shrouds.



CE Certified

Made in China

Maximum rated operational voltage 690V

Supplied with incoming and outgoing shrouds

Part Number	Description	Price	Per
LC1-F115A-A65	59kW 115A AC3 (200A AC1)	£235.49	1
LC1-F150A-A65	80kW 150A AC3 (250A AC1)	£373.37	1
LC1-F185A-A65	100kW 185A AC3 (275A AC1)	£485.73	1
LC1-F225A-A65	110kW 225A AC3 (315A AC1)	£537.60	1
LC1-F265A-A65	140kW 265A AC3 (350A AC1)	£632.47	1
LC1-F330A-A65	180kW 330A AC3 (400A AC1)	£708.39	1
LC1-F400A-A65	220kW 400A AC3 (500A AC1)	£846.46	1
LC1-F500A-A65	280kW 500A AC3 (630A AC1)	£1357.39	1
LC1-F630A-A65	375kW 630A AC3 (800A AC1)	£2160.96	1

4 Pole / 4 Normally Open (Supplied Without Coil)



F range contactors are supplied without a coil. The required coil voltage must be ordered separately. A supporting range of auxiliaries and accessories are available including spare terminal shrouds.



CE Certified

Made in China

Maximum rated operational voltage 690V

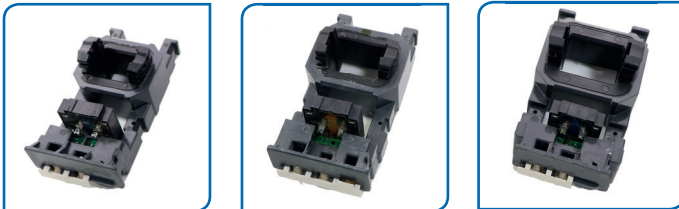
Supplied with incoming and outgoing shrouds

Part Number	Description	Price	Per
LC1-F1154A-A65	59kW 115A AC3 (200A AC1)	£334.17	1
LC1-F1504A-A65	80kW 150A AC3 (250A AC1)	£497.96	1
LC1-F1854A-A65	100kW 185A AC3 (275A AC1)	£647.67	1
LC1-F2254A-A65	110kW 225A AC3 (315A AC1)	£715.77	1
LC1-F2654A-A65	140kW 265A AC3 (350A AC1)	£843.30	1
LC1-F3304A-A65	180kW 330A AC3 (400A AC1)	£1038.43	1
LC1-F4004A-A65	220kW 400A AC3 (500A AC1)	£1128.13	1
LC1-F5004A-A65	280kW 500A AC3 (630A AC1)	£1983.86	1
LC1-F6304A-A65	375kW 630A AC3 (800A AC1)	£2472.14	1

LC1- F Range Dimensions

AC3 Rating	3 Pole Height	3 Pole Width	3 Pole Depth	4 Pole Height	4 Pole Width	4 Pole Depth
F115A	162mm	164mm	171mm	162mm	201mm	171mm
F150A	170mm			170mm		
F185A	174mm	169mm	181mm	174mm	209mm	181mm
F225A	197mm			197mm		
F265A	203mm	202mm	213mm	203mm	245mm	213mm
F330A	206mm	213mm	219mm	206mm	261mm	219mm
F400A						
F500A	238mm	233mm	232mm	238mm	288mm	232mm
F630A	304mm	309mm	255mm	304mm	389mm	255mm

AC Coils for LC1 Contactors



LC1-F115-F150A (AC) (40-400Hz)

Part Number	Description	Price	Per
LX9-FFB	24V AC	£54.05	1
LX9-FFF	110V AC	£54.05	1
LX9-FFU	240V AC	£54.05	1
LX9-FFN	415V AC	£54.05	1

LC1-F185-F225A (AC) (40-400Hz)

Part Number	Description	Price	Per
LX9-FGB	24V AC	£72.45	1
LX9-FGF	110V AC	£72.45	1
LX9-FGU	240V AC	£76.47	1
LX9-FGN	415V AC	£76.47	1

LC1-F265-F330 (AC) (50-60Hz)

Part Number	Description	Price	Per
LX1-FHB	24V AC	£83.38	1
LX1-FHF	110V AC	£83.38	1
LX1-FHU	240V AC	£83.38	1
LX1-FHN	415V AC	£83.38	1

LC1-F400A (AC) (50-60Hz)

Part Number	Description	Price	Per
LX1-FJF	110V AC	£149.42	1
LX1-FJU	240V AC	£149.42	1
LX1-FJN	415V AC	£149.42	1

LC1-F500A (AC) (50-60Hz)

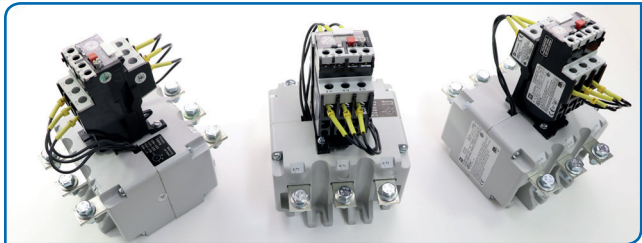
Part Number	Description	Price	Per
LX1-FKF	110V AC	£165.05	1
LX1-FKU	240V AC	£165.05	1
LX1-FKN	415V AC	£165.05	1

LC1-F630A (AC) (50-60Hz)

Part Number	Description	Price	Per
LX1-FLF	110V AC	£195.57	1
LX1-FLU	240V AC	£195.57	1
LX1-FLN	415V AC	£195.57	1

Accessories for LC1-F Range Contactors

LC1-F Range Contactor Overload Relay



CE Certified

Part Number	Description	Price	Per
LR1-FM105	65 - 105A	£146.07	1
LR1-FM125	80 - 125A	£146.07	1
LR1-F160	100 - 160A	£187.39	1
LR1-F200	125 - 200A	£187.39	1
LR1-F250	160 - 250A	£187.39	1
LR1-F315	200 - 315A	£246.80	1
LR1-F400	250 - 400A	£300.32	1
LR1-F500	315 - 500A	£311.97	1
LR1-F630	400 - 630A	£324.34	1

Mechanical Interlocks for LC1-F Range



Part Number	Description	Price	Per
LA9-FF970	LC1-FF115 to 150 Horizontal	£31.09	1
LA9-FF971	LC1-FF115 to 150 Vertical	£31.09	1
LA9-FG970	LC1-FF185 to 225 Horizontal	£31.09	1
LA9-FG971	LC1-FF185 to 225 Vertical	£31.09	1
LA9-FJ970	LC1-FF265 to 500 Horizontal	£47.09	1
LA9-FJ971	LC1-FF265 to 500 Vertical	£47.09	1
LA9-FL970	LC1-FF630 Horizontal	£77.12	1
LA9-FL971	LC1-FF630 Vertical	£77.12	1

Spare Terminal Shrouds for LC1-F Range



Part Number	Description	Price	Per
LA9-F701	LC1-F115 & LR1-FM105 to 125	£8.71	1
LA9-F702	LC1-F150 to LR1-F200	£11.93	1
LA9-F703	LC1-F225 to 500	£15.35	1
LA9-F704	LC1-F630 & LR1-F400 to 630	£15.35	1

Switch Mode Power Supplies

24V DC Output



Please scan me to view the data sheet

CE Certified

85 - 264V AC / 120 - 370V DC / multiple input voltage range
Fully protected against overload and over voltage
Din rail mount
High load stability
Adjustable DC output + / - 10%
LED indication for power on

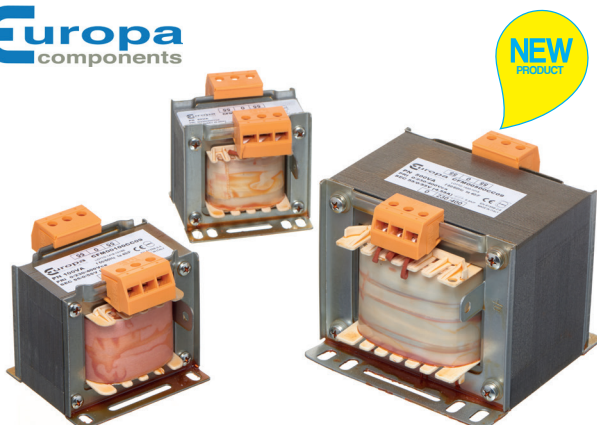


Part Number	Description	Price	Per
SMP-20-24	1A 20W	£26.34	1
SMP-60-24	2.5A 60W	£34.98	1
SMP-100-24	4A 100W	£47.70	1
SMP-120-24	5A 120W	£44.16	1
SMP-240-24	10A 240W	£90.10	1

Transformers

Panel Transformers

55-0-55 (110V) Output Open Frame Transformers (IP00)

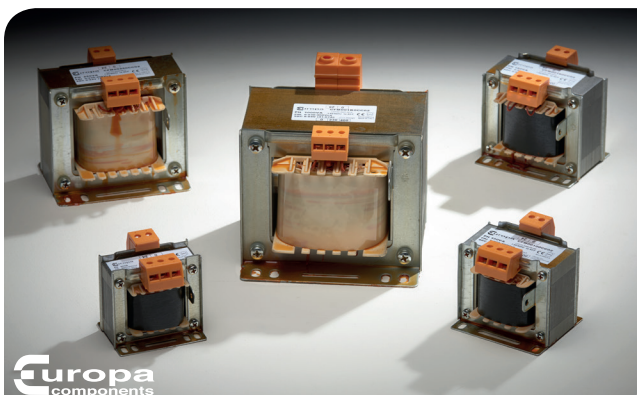


UL Approved; EN 61558-2-6 compliant; Class F Rated

Dual input voltage 230/400V AC / Output voltage 55-0-55 (110V) AC,
Operating time: Continuous
Open frame (IP00)

Part Number	Description	Price	Per
CFM-050-CC09	50VA	£30.21	1
CFM-100-CC09	100VA	£40.34	1
CFM-250-CC09	250VA	£63.55	1
CFM-500-CC09	500VA	£105.72	1

24V AC Output Open Frame Transformers (IP00)



UL Approved; EN 61558-2-6 standard; Class F rated

Dual input voltage: 230/400V / Output voltage: 24V AC
Operating time: Continuous
Open frame (IP00)

Part Number	Description	Price	Per
CFM-040-CC02	40VA	£29.63	1
CFM-050-CC02	50VA	£32.01	1
CFM-063-CC02	63VA	£33.11	1
CFM-100-CC02	100VA	£41.66	1
CFM-160-CC02	160VA	£56.40	1
CFM-250-CC02	250VA	£66.29	1
CFM-300-CC02	300VA	£78.75	1
CFM-500-CC02	500VA	£109.65	1
CFM-1K0-CC02	1KVA	£189.25	1

24V AC Output Safety Transformer (IP20)



UL Approved; EN 61558-2-6 standard; Class B rated

Dual input voltage: 230/400V / Output voltage: 24V AC
Operating time: Continuous
Enclosed (IP20) / Din rail mounting

Part Number	Description	Price	Per
IPB-050-CC02	50VA	£41.47	1
IPB-100-CC02	100VA	£51.12	1
IPB-160-CC02	160VA	£72.82	1
IPB-250-CC02	250VA	£81.85	1
IPB-300-CC02	300VA	£90.32	1

NB: Other sizes and types available on request

Industrial Capacitors

Motor Capacitors

Ducati Metallic Case with Spade Terminals 450V



Manufactured by Ducati

Part Number	Description	Price	Per
4.16.26.09.64	8 uF 40 x 72	£7.53	1
4.16.26.10.64	10 uF 40 x 72	£7.45	1
4.16.26.11.64	12 uF 40 x 98	£9.47	1
4.16.26.15.64	15 uF 40 x 98	£10.28	1
4.16.26.19.64	20 uF 45 x 98	£11.40	1
4.16.26.20.64	25 uF 45 x 122	£13.72	1
4.16.26.24.64	40 uF 55 x 122	£19.66	1

Ducati Plastic Case with Leads 450V



Manufactured by Ducati

Part Number	Description	Price	Per
4.16.15.69.14	1 uF 28 x 55	£3.13	1
4.16.15.01.14	2 uF 28 x 55	£2.76	1
4.16.15.28.14	2.5 uF 28 x 55	£3.35	1
4.16.10.03.14	3 uF 28 x 55	£3.35	1
4.16.10.06.14	4 uF 28 x 55	£3.50	1
4.16.10.08.14	5 uF 28 x 55	£4.46	1
4.16.10.09.14	6 uF 28 x 55	£3.68	1
4.16.10.13.14	8 uF 32 x 55	£4.77	1
4.16.10.15.14	10 uF 36 x 58	£5.66	1
4.16.10.17.14	12 uF 36 x 70	£6.41	1
4.16.10.22.14	15 uF 36 x 70	£7.01	1
4.16.10.24.14	18 uF 40 x 70	£8.19	1
4.16.10.25.14	20 uF 40 x 70	£8.19	1
4.16.10.26.14	25 uF 40 x 92	£9.76	1
4.16.10.70.14	30 uF 40 x 92	£11.40	1
4.16.10.65.14	36 uF 45 x 92	£12.90	1
4.16.10.29.14	40 uF 45 x 92	£14.58	1
4.16.10.30.14	50 uF 45 x 117	£21.08	1

Ducati Plastic Case with Spade Terminals 450V



Manufactured by Ducati

Part Number	Description	Price	Per
4.16.15.69.64	1 uF 28 x 55	£2.61	1
4.16.15.01.64	2 uF 28 x 55	£2.68	1
4.16.10.03.64	3 uF 28 x 55	£3.06	1
4.16.10.06.64	4 uF 28 x 55	£2.89	1
4.16.10.08.64	5 uF 28 x 55	£3.43	1
4.16.10.13.64	8 uF 32 x 55	£4.10	1
4.16.10.15.64	10 uF 36 x 58	£5.07	1
4.16.10.17.64	12 uF 36 x 70	£5.51	1
4.16.10.22.64	15 uF 36 x 70	£6.11	1
4.16.10.24.64	18 uF 40 x 70	£7.38	1
4.16.10.25.64	20 uF 40 x 70	£7.75	1
4.16.10.26.64	25 uF 40 x 92	£9.39	1
4.16.10.70.64	30 uF 40 x 92	£10.50	1
4.16.10.65.64	36 uF 45 x 92	£12.31	1
4.16.10.29.64	40 uF 45 x 92	£13.74	1
4.16.10.30.64	50 uF 45 x 117	£16.41	1
4.16.10.61.64	60 uF 50 x 120	£17.59	1



We also stock an extensive range of direct online, reversing, star delta and manual motor starters, see pages 78-80 for more details

22.5mm Push Buttons, Selector Switches, Indicator Lamps and Holders

Integrated 22.5mm Push Buttons and Switches

Integrated 22.5mm Flush Push Buttons



UL Approved

IP65 rating / **IP20** terminal protection / Current rating 6A at 240V AC
Compact mono block design / Quick installation
Complete assembly (No need to order contact block & collar separately)
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE1GFD1	Green 1N/O	£5.27	1
EE2RFD1	Red 1N/C	£5.27	1
EE3AFD1	Amber 1N/O + 1N/C	£7.62	1
EE3RFD1	Red 1N/O + 1N/C	£7.62	1
EE3CFD1	Black 1N/O + 1N/C	£7.62	1
EE3GFD1	Green 1N/O + 1N/C	£7.62	1
EE4GFD1	Green 2N/O	£7.62	1
EE4AFD1	Amber 2N/O	£7.62	1
EE4CFD1	Black 2N/O	£7.62	1
EE5RFD1	Red 2N/C	£7.62	1

Integrated 22.5mm Projecting Push Buttons



UL Approved

IP65 rating / **IP20** terminal protection / Current rating 6A at 240V AC
Compact mono block design / Quick installation
Complete assembly (No need to order contact block & collar separately)
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE1GPD1	Green 1N/O	£5.27	1
EE2RPD1	Red 1N/C	£5.27	1
EE2GPD1	Green 1N/C	£5.27	1
EE3RPD1	Red 1N/O + 1N/C	£7.62	1
EE3GPD1	Green 1N/O + 1N/C	£7.62	1
EE3APD1	Amber 1N/O + 1N/C	£7.62	1
EE3CPD1	Black 1N/O + 1N/C	£7.62	1
EE5RPD1	Red 2N/C	£7.62	1

Integrated 22.5mm Selector Switches with Standard Handle



UL Approved

IP65 rating / **IP20** terminal protection / Current rating 6A at 240V AC
Compact mono block design / Quick installation
Complete assembly (No need to order contact block & collar separately)
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE3CSK1	2 Position 1N/O + 1N/C	£12.20	1
EE3CSI1	2 Position Spring Return 1N/O + 1N/C	£12.20	1
EE4CSK1	2 Position 2N/O	£12.20	1
EE4CSI1	2 Position Spring Return 2N/O	£12.20	1
EE5CSK1	2 Position 2N/C	£12.20	1
EE5CSI1	2 Position Spring Return 2N/C	£12.20	1
EE3CSL1	3 Position 1N/O + 1N/C	£12.76	1
EE3CSJ1	3 Position Spring Return 1N/O + 1N/C	£12.76	1
EE4CSL1	3 Position 2N/O	£12.76	1
EE4CSJ1	3 Position Spring Return 2N/O	£12.76	1
EE5CSL1	3 Position 2N/C	£12.76	1
EE5CSJ1	3 Position Spring Return 2N/C	£12.76	1

Integrated 22.5mm Key Operated Selector Switches



UL Approved

IP65 rating / **IP20** terminal protection / Current rating 6A at 240V AC
Compact mono block design / Quick installation
Complete assembly (No need to order contact block & collar separately)
Key removable in OFF Position Only
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE3CKK1	2 Position 1N/O + 1N/C	£14.95	1
EE3CKI1	2 Position Spring Return 1N/O + 1N/C	£14.95	1
EE4CKK1	2 Position 2N/O	£14.95	1
EE4CKI1	2 Position Spring Return 2N/O	£14.95	1
EE5CKK1	2 Position 2N/C	£14.95	1
EE5CKI1	2 Position Spring Return 2N/C	£14.95	1
EE3CKL1	3 Position 1N/O + 1N/C	£15.31	1
EE3CKJ1	3 Position Spring Return 1N/O + 1N/C	£15.31	1
EE4CKL1	3 Position 2N/O	£15.31	1
EE4CKJ1	3 Position Spring Return 2N/O	£15.31	1
EE5CKL1	3 Position 2N/C	£15.31	1
EE5CKJ1	3 Position Spring Return 2N/C	£15.31	1
EEKEY010	Spare Key for EE3-5	£2.13	1

Empty Control Station Enclosures for Integrated 22.5mm Push Buttons



Due to the depth of the EP-FAA enclosures they can also be used with both the test and sounder types of 22mm LEDs (See page 103)

IP65 rating / Quick installation

For use with integrated 22.5mm switches

Legend plates for EP enclosures available on request

Part Number	Description	Price	Per
EP1FAA	1 Position Empty H: 65 x W: 55 x D: 53.5mm	£12.37	1
EP2FAA	2 Position Empty H: 100 x W: 55 x D: 53.5mm	£13.82	1
EP3FAA	3 Position Empty H: 134 x W: 55 x D: 53.5mm	£15.29	1

Plastic Push Buttons and Selector Switches

Plastic Push Buttons + Mounting Clip (IP65)



IP65 rated when installed

Supplied complete with mounting clip

Used for plastic control stations or panel mount (See page 102)



Part Number	Description	Price	Per
RP2BA1	Flush P/B Head White	£2.65	1
RP2BA2	Flush P/B Head Black	£2.65	1
RP2BA3	Flush P/B Head Green	£2.65	1
RP2BA4	Flush P/B Head Red	£2.65	1
RP2BA5	Flush P/B Head Yellow	£2.65	1
RP2BA6	Flush P/B Head Blue	£2.65	1
RP2-BL4	Projecting P/B Head Red	£4.47	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Plastic Weatherproof Push Button (IP67)



The weatherproof range is suitable for panel mount or for use in plastic control stations. (See page 102)

NB: RAP2-BHZ (Mounting clip) is also required. (See page 96)

Part Number	Description	Price	Per
RAP2-BA1	White	£4.91	1
RAP2-BA2	Black	£4.91	1
RAP2-BA3	Green	£4.91	1
RAP2-BA4	Red	£4.91	1
RAP2-BA5	Yellow	£4.91	1
RAP2-BA6	Blue	£4.91	1
RAP2-BA334	White with Arrow	£4.91	1
RAP2-BA335	Black with Arrow	£4.91	1
RAS-BCBNC	N/C Back Mounting Contact for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting Contact for Plastic Control Stations	£1.82	1

Plastic Key Operated Selector Switches + Mounting Clip (IP65)



Part Number	Description	Price	Per
RP2-BG4	2 Position Key Removable in 2 Positions	£7.57	1
RP2-BG2	2 Position Key Removable in the Left Position	£7.57	1
RP2-BG0	3 Position Key Removable in 3 Positions	£7.85	1
RP2-BG3	3 Position Key Removable in the Centre Only	£7.85	1
RP2-BG5	3 Position Key Removable in the Left & Right Position	£7.85	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Weatherproof Stay Put Selector Switches + Mounting Clip (IP67)



IP67 rated when installed / Mounting clip included

Part Number	Description	Price	Per
RAP2-BD2	2 Position Stay Put	£5.17	1
RAP2-BD3	3 Position Stay Put	£5.17	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Mounting Clip



For use with the RAP2 range of IP67 weatherproof plastic push buttons.

Part Number	Description	Price	Per
RAP2-BHZ	Mounting Clip	£0.49	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1



Please see page 102 for our range of push button enclosures

Indicator Lamps & Holders

LED BA9 Bayonet (10 x 23mm)



AC/DC

For use with illuminated push buttons and selector switches (Page 97)
Long life: 30,000 Hours / Operating temperature: -25°C to + 55°C

Part Number	Description	Price	Per
BA9LED1B	24V White 2 Chip LED	£1.75	1
BA9LED3B	24V Green 1 Chip LED	£1.46	1
BA9LED4B	24V Red 2 Chip LED	£1.46	1
BA9LED5B	24V Amber 2 Chip LED	£1.46	1
BA9LED6B	24V Blue 2 Chip LED	£1.46	1
BA9LED1F	110V White 4 Chip LED	£1.75	1
BA9LED3F	110V Green 2 Chip LED	£1.46	1
BA9LED4F	110V Red 2 Chip LED	£1.46	1
BA9LED5F	110V Amber 2 Chip LED	£1.46	1
BA9LED6F	110V Blue 2 Chip LED	£1.46	1
BA9LED1P	230V White 4 Chip LED	£1.75	1
BA9LED3P	230V Green 2 Chip LED	£1.46	1
BA9LED4P	230V Red 2 Chip LED	£1.46	1
BA9LED5P	230V Amber 2 Chip LED	£1.46	1
BA9LED6P	230V Blue 2 Chip LED	£1.46	1

Lamp Holder (BA9 Type) + Collar



CE Certified

Includes mounting collar

NB: LP6 & LP7 lamp holders are suitable for use with illuminated push buttons and selector switches



Part Number	Description	Price	Per
① RAS-LP3	Transformer Type 110V > 6V	£10.05	1
② RAS-LP4	Transformer Type 240V > 6V	£10.05	1
③ RAS-LP6	Direct Connected (any voltage)	£2.94	1
④ RAS-LP7	Diode & Series Resistor 230V > 110V	£3.14	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Lamp Head Only



CE Certified

NB: Collar is supplied with the lamp holder (Sold separately - see page 96)

Part Number	Description	Price	Per
RAS-LP01	White	£1.72	1
RAS-LP03	Green	£1.72	1
RAS-LP04	Red	£1.72	1
RAS-LP05	Amber	£1.72	1
RAS-LP06	Blue	£1.72	1
RAS-LP07	Clear	£1.72	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Illuminated Push Buttons and Selector Switches

Flush Illuminated Push Button Head Only (IP65)



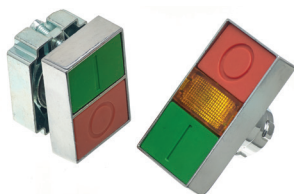
CE Certified

NB: Collar is supplied with the lamp holder (Sold separately - see page 96)

Part Number	Description	Price	Per
RAS-PB131	White	£2.13	1
RAS-PB133	Green	£2.13	1
RAS-PB134	Red	£2.13	1
RAS-PB135	Amber	£2.13	1
RAS-PB136	Blue	£2.13	1
RAS-PB137	Clear	£2.13	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Twin Push Button (IP40)



UL & CSA Approved / IP40 rated when installed

NB: Collar is supplied with the lamp holder (Sold separately - see page 96)

Part Number	Description	Price	Per
RAS-PB1534	Off-On (Illuminated)	£4.45	1
RCAS-PBF34	Off-On (Not Illuminated)	£4.10	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Illuminated Stay Put Selector Switches (IP65)



CE Certified

IP65 rated when installed

NB: Collar is supplied with the lamp holder (Sold separately - see page 96)

Part Number	Description	Price	Per
RB2-BK123	2 Position Green	£5.34	1
RB2-BK124	2 Position Red	£5.34	1
RB2-BK125	2 Position Amber	£5.34	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Metal Push Buttons and Selector Switches

Flush Push Button Head + Collar (IP65)



CE Certified

IP65 Rated when Installed

Part Number	Description	Price	Per
RCAS-PBF1	White	£2.25	1
RCAS-PBF2	Black	£2.25	1
RCAS-PBF3	Green	£2.25	1
RCAS-PBF4	Red	£2.25	1
RCAS-PBF5	Yellow	£2.25	1
RCAS-PBF6	Blue	£2.25	1
● RCAS-PBF3-I	Green Button White I Symbol	£3.18	1
RB2-BA3347	White Button Black Arrow	£1.49	1
RB2-BA3357	Black Button White Arrow	£1.49	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

NB: Both RB2 parts do NOT include the mounting collar.

Booted Push Button + Collar (IP65)



CE Certified

IP65 rated when installed

Part Number	Description	Price	Per
RCAS-PBB2	Black	£3.05	1
RCAS-PBB3	Green	£3.05	1
RCAS-PBB4	Red	£3.05	1
RCAS-PBB5	Yellow	£3.05	1
RCAS-PBB6	Blue	£3.05	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Projecting Push Button + Collar (IP65)



CE Certified

IP65 rated when installed

Part Number	Description	Price	Per
RCAS-PBP1	White	£2.59	1
RCAS-PBP2	Black	£2.59	1
RCAS-PBP3	Green	£2.59	1
RCAS-PBP4	Red	£2.59	1
RCAS-PBP5	Yellow	£2.59	1
RCAS-PBP6	Blue	£2.59	1
● RCAS-PBP4-O	Red Button White O Symbol	£3.18	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1



Secure Online Ordering
www.europacomponents.com



Metal Key Operated Selector Switches + Collar (IP65)



CE Certified

Part Number	Description	Price	Per
RCAS-SWK2RS	2 Position Key Removable in 2 Positions	£7.36	1
RCAS-SWK2	2 Position Key Removable in Centre Off Position	£7.36	1
RCAS-BG6	2 Position Key Spring Return from Right to Centre	£7.36	1
RCAS-SWK3RS	3 Position Key Removable in 3 Positions	£7.62	1
RCAS-SWK3	3 Position Key Removable in Centre Off Position	£7.62	1
RCAS-BG7	3 Position Key Spring Return to Centre	£7.62	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Metal Standard Handle Selector Switches + Collar (IP65)



CE Certified

Part Number	Description	Price	Per
RCAS-SW2	2 Position Stay Put	£5.34	1
RCAS-SWR2	2 Position Spring Return to Centre	£5.34	1
RCAS-SWL2	2 Position Stay Put Long Handle	£6.64	1
RCAS-SW3	3 Position Stay Put	£5.75	1
RCAS-SWR3	3 Position Spring Return to Centre	£5.75	1
RCAS-SWL3	3 Position Stay Put Long Handle	£6.64	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

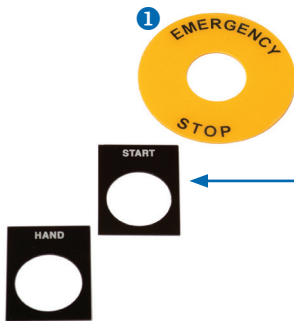
Accessories for 22mm Push Buttons

Spare Key



Part Number	Description	Price	Per
RB2-K455	Spare Key for Selector Switches	£1.73	1

Legend Plates



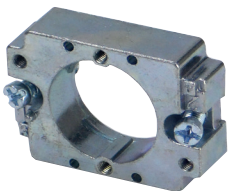
A wider range is available at £1.43 each please ask sales for details of the full range or scan the QR code to go to the page on our website.



Suitable for use with all 22mm diameter push buttons

Part Number	Description	Price	Per
1 RB2-PY9330	60mm Emergency Stop	£1.43	1

Mounting Collar



Part Number	Description	Price	Per
RAS-FB	Mounting Collar	£0.99	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Next day and special deliveries available

Low minimum order of
£25 nett

5pm cut off for standard
same day dispatch



Mushroom Head Push Button

40mm Mushroom Head (Spring Return) (IP65)



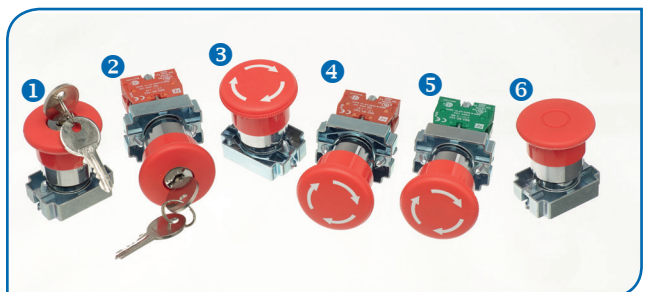
CE Certified
IP65 rated when installed

Part Number	Description	Price	Per
RCAS-ES54B	Black Spring Return with Collar	£5.30	1
RCAS-ES54G	Green Spring Return with Collar	£5.30	1
RCAS-ES54R	Red Spring Return with Collar	£5.30	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Emergency Stops

Emergency Stop Buttons + Collar (Latching) (IP65)



CE Certified
40mm mushroom head
IP65 rated when installed



Part Number	Description	Price	Per
1 RCAS-ES14	Key Release	£9.73	1
2 RCAS-ES142	Key Release + 1N/C Contact	£11.60	1
3 RCAS-ES54	Twist Release	£4.91	1
4 RCAS-ES542	Twist Release + 1N/C Contact	£6.77	1
5 RCAS-ES541	Twist Release + 1N/O Contact	£6.77	1

6 RCAS-EST4	Push/Pull	£4.91	1
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RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

60mm Mushroom Head (Latching) Emergency Stop (IP65)



CE Certified

IP65 rated when installed / 60mm mushroom head

Part Number	Description	Price	Per
RCAS-ES564	Twist Release + Collar	£10.47	1
RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-CBNO	N/O Collar Mounting Contact	£1.82	1

Plastic Emergency Stop Buttons (Latching) (IP65)



CE Certified

IP65 rated when installed / 40mm mushroom head
Mounting clip required for panel use.

Part Number	Description	Price	Per
1 RP2-ES14	Key Release (Plastic Body)	£9.29	1
2 RP2-BS54	Twist Release (Plastic Body)	£4.45	1
RAS-BCBNC	N/C Back Mounting Contact for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting Contact for Plastic Control Stations	£1.82	1

OPEN	CLOSE	START	STOP	UP	UP	Legend plate stickers are included with each C&S control station
DOWN	RIGHT	LEFT	ON	OFF	UP	
FWD	REV	O	-	UP	UP	

C & S Control Station Enclosure Dimensions

	Plastic				Metal			
	1 Hole	2 Hole	3 Hole	4 Hole	1 Hole	2 Hole	3 Hole	4 Hole
H	51				51			
W	68				68			
L	74	104	134	164	74	105	134	164
W 1	54				54			
L 1	38	68	68	128	46	78	108	138

Plastic Pre-assembled Control Stations

Plastic Enclosed Emergency Stop Stations (IP65)



CE Certified / IP65 rated when installed

Rated up to 240V at 10A



Part Number	Description	Price	Per
1 RCAS-ESB141NC	Key Release + 1N/C	£17.25	1
2 RCAS-ESB541NC	Twist Release + 1N/C	£13.52	1
3 RCAS-ESBC41NC	Spring Release + 1N/C	£16.67	1
4 RCAS-ESBT42NC	Pull Release + 2N/C	£18.27	1

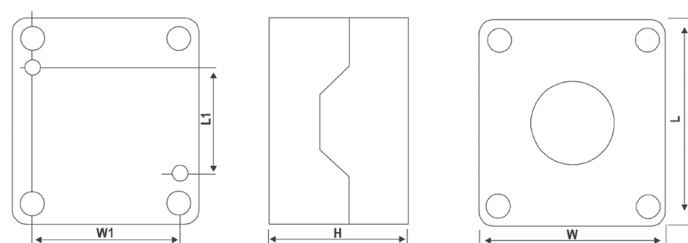
RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.82	1

1 Position Plastic (IP65)



CE Certified / IP65 rated when installed

Part Number	Description	Price	Per
1 RC1PBG4	Key Removable in ON & OFF + 1N/O	£12.59	1
2 RC1PG	Green + 1N/O	£12.08	1
RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.82	1



2 Position Plastic (IP65)



CE Certified
IP65 rated when installed



Part Number	Description	Price	Per
1 RC2PGES55	Green / Emergency Stop + 1N/O + 1N/C	£18.37	1
2 RC2PGR	Green / Red + 1N/O + 1N/C	£15.71	1
3 RC2PWB	White / Black + 2N/O	£15.71	1
RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.82	1

3 Position Plastic (IP65)



CE Certified
IP65 rated when installed



Part Number	Description	Price	Per
1 RC3PGRG	Green / Red / Green + 2N/O + 1N/C	£23.90	1
2 RC3PWRB	White/Red/Black + 2N/O + 1N/C	£23.90	1
RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.82	1

Metal Pre-assembled Control Stations

Metal Enclosed Emergency Stop Stations (IP65)



UL and CSA Approved
IP65 rated when installed / Rated up to 240V at 10A

Part Number	Description	Price	Per
1 RM1BS142	Key Release + 1N/C	£45.51	1
2 RM1BS542	Twist Release + 1N/C	£40.03	1
RAS-BCBNCM	N/C Back Mounting for Metal Pre-assembled Stations	£1.82	1
RAS-BCBNOM	N/O Back Mounting for Metal Pre-assembled Stations	£1.82	1

1 Position Metal (IP65)



CE Certified
IP65 rated when installed



Part Number	Description	Price	Per
1 RM1BG4	Key Removable in ON & OFF Position + 1N/O	£38.16	1
2 RM1BG7	3 Position Key Release Spring Return to Centre + 2N/O	£38.16	1
3 RM1G	Green + 1N/O	£27.61	1
RAS-BCBNCM	N/C Back Mounting for Metal Pre-assembled Stations	£1.82	1
RAS-BCBNOM	N/O Back Mounting for Metal Pre-assembled Stations	£1.82	1

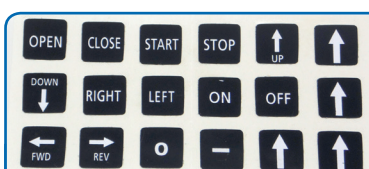
2 Position Metal (IP65)



CE Certified / IP65 rated when installed

Part Number	Description	Price	Per
① RM2GES55	Green / Emergency Stop + 1N/O + 1N/C	£52.65	1
② RM2GR	Green / Red + 1N/O + 1NC	£50.52	1
RAS-BCBNM	N/C Back Mounting for Metal Pre-assembled Stations	£1.82	1
RAS-BCBNOM	N/O Back Mounting for Metal Pre-assembled Stations	£1.82	1

3 Position Metal (IP65)



Legend plate stickers are included with each C&S control station



CE Certified / IP65 rated when installed

Part Number	Description	Price	Per
RM3GRG	Green / Red / Green 2N/O + 1N/C	£76.72	1
RAS-BCBNM	N/C Back Mounting for Metal Pre-assembled Stations	£1.82	1
RAS-BCBNOM	N/O Back Mounting for Metal Pre-assembled Stations	£1.82	1

Empty Control Station Enclosures

Plastic Empty Control Stations (IP65)



CE Certified / IP65 rated when installed

Part Number	Description	Price	Per
① RC1P	1 Hole	£8.67	1
② RC1PY	1 Hole (Yellow Lid)	£8.67	1
③ RC2P	2 Hole	£8.95	1
④ RC3P	3 Hole	£10.43	1
⑤ RC4P	4 Hole	£11.86	1
RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.82	1
RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.82	1

Metal Empty Control Stations (IP65)



CE Certified

IP65 rated when installed / Cable entry top & bottom

Part Number	Description	Price	Per
① RC-1M	1 Hole	£17.71	1
② RC-1MY	1 Hole (Yellow Lid)	£18.30	1
③ RC-2M	2 Hole	£19.06	1
④ RC-3M	3 Hole	£20.90	1
⑤ RC-4M	4 Hole	£23.03	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-BCNO	N/O Collar Mounting Contact	£1.82	1

NB: For dimensions of control station enclosures please see page 100

Metal Empty Control Stations with Shroud (IP67)



CE Certified

IP65 rated when installed

Complete with protective shroud to guard against accidental operation of the switch.

PG16 x 1 cable entry (on top).

Part Number	Description	Price	Per
RC-1MS	1 Hole H: 72 x W: 72 x D: 57mm	£24.49	1
RC-2MS	2 Hole H: 112 x W: 72 x D: 57mm	£27.55	1
RC-3MS	3 Hole H: 142 x W: 72 x D: 57mm	£31.02	1

RAS-CBNC	N/C Collar Mounting Contact	£1.82	1
RAS-BCNO	N/O Collar Mounting Contact	£1.82	1

LED Lamps

16mm LED Pilot Lamps (IP65)

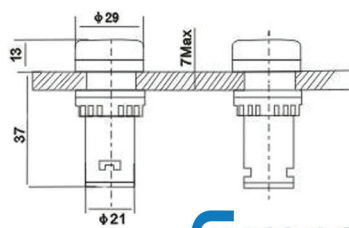


CE Certified / EN 60947

Multi segment / Long life: 30,000 hours / Low temperature
24V & 110V AC/DC / 230V AC / Complete with locking nut
Current rating 20mA

Part Number	Description	Price	Per
RAD161B	White 24V AC/DC	£2.17	1
RAD163B	Green 24V AC/DC	£2.17	1
RAD164B	Red 24V AC/DC	£2.17	1
RAD165B	Amber 24V AC/DC	£2.17	1
RAD166B	Blue 24V AC/DC	£2.17	1
RAD161F	White 110V AC/DC	£2.17	1
RAD163F	Green 110V AC/DC	£2.17	1
RAD164F	Red 110V AC/DC	£2.17	1
RAD165F	Amber 110V AC/DC	£2.17	1
RAD166F	Blue 110V AC/DC	£2.17	1
RAD161P	White 230V AC	£2.17	1
RAD163P	Green 230V AC	£2.17	1
RAD164P	Red 230V AC	£2.17	1
RAD165P	Amber 230V AC	£2.17	1
RAD166P	Blue 230V AC	£2.17	1

22mm LED Pilot Lamps (IP65)

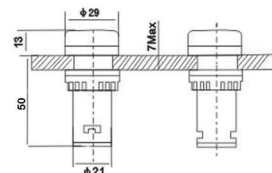


CE Certified / EN 60947

Multi segment / Long life: 30,000 hours / Low temperature
24V & 110V AC/DC / 230V AC / Complete with locking nut
Current rating 20mA

Part Number	Description	Price	Per
RAD221B	White 24V AC/DC	£2.01	1
RAD223B	Green 24V AC/DC	£2.01	1
RAD224B	Red 24V AC/DC	£2.01	1
RAD225B	Amber 24V AC/DC	£2.01	1
RAD226B	Blue 24V AC/DC	£2.01	1
RAD221F	White 110V AC/DC	£2.01	1
RAD223F	Green 110V AC/DC	£2.01	1
RAD224F	Red 110V AC/DC	£2.01	1
RAD225F	Amber 110V AC/DC	£2.01	1
RAD226F	Blue 110V AC/DC	£2.01	1
RAD221P	White 230V AC	£2.01	1
RAD223P	Green 230V AC	£2.01	1
RAD224P	Red 230V AC	£2.01	1
RAD225P	Amber 230V AC	£2.01	1
RAD226P	Blue 230V AC	£2.01	1
RAD-ADD22	Spanner	£3.93	1

22mm LED With Lamp Test Facility (IP65)



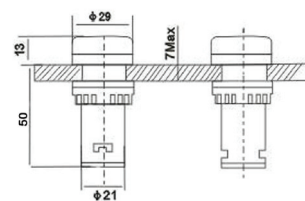
CE Certified / EN 60947

Multi segment / Long life: 30,000 hours / Low temperature
24V, 110V, 230V AC / Complete with locking nut
Current rating 20mA / (See page 95 for EP-FAA enclosures)

Part Number	Description	Price	Per
RADT221B	White (with test) 24V AC	£3.98	1
RADT223B	Green (with test) 24V AC	£3.98	1
RADT224B	Red (with test) 24V AC	£3.98	1
RADT225B	Amber (with test) 24V AC	£3.98	1
RADT226B	Blue (with test) 24V AC	£3.98	1
RADT221F	White (with test) 110V AC	£3.98	1
RADT223F	Green (with test) 110V AC	£3.98	1
RADT224F	Red (with test) 110V AC	£3.98	1
RADT225F	Amber (with test) 110V AC	£3.98	1
RADT226F	Blue (with test) 110V AC	£3.98	1
RADT221P	White (with test) 230V AC	£3.98	1
RADT223P	Green (with test) 230V AC	£3.98	1
RADT224P	Red (with test) 230V AC	£3.98	1
RADT225P	Amber (with test) 230V AC	£3.98	1
RADT226P	Blue (with test) 230V AC	£3.98	1

NB: This range of LEDs offers a lamp test (or push to test) facility enabling individual or groups of lamps to be tested from a single push button by the application of a test voltage without interrupting normal operation.

22mm LED with Sounder Sound Output 80DB



CE Certified / EN 60947

Flashing LED / Multi segment / Long life: 30,000 hours
Low temperature
24V & 110V AC/DC / 230V AC / Complete with locking nut
Current Rating 20mA / (See page 95 for EP-FAA enclosures)

Part Number	Description	Price	Per
RAD22SM4B	Red 24V AC/DC LED Buzzer	£4.08	1
RAD22SM5B	Amber 24V AC/DC LED Buzzer	£4.08	1
RAD22SM6B	Blue 24V AC/DC LED Buzzer	£4.08	1
RAD22SM4F	Red 110V AC/DC LED Buzzer	£4.08	1
RAD22SM5F	Amber 110V AC/DC LED Buzzer	£4.08	1
RAD22SM6F	Blue 110V AC/DC LED Buzzer	£4.08	1
RAD22SM4P	Red 230V AC LED Buzzer	£4.08	1
RAD22SM5P	Amber 230V AC LED Buzzer	£4.08	1
RAD22SM6P	Blue 230V AC LED Buzzer	£4.08	1

Warning Beacons
Warning Tower Beacons and Accessories

70mm LED Modules



Manufactured by Delta Design

Unique click-fit modular design for easy connection and installation. Long life / Low maintenance / Low power consumption LED lights Switchable flash / Constant light / Entire range IP65 rated / 5 mounting options / Available in 24V DC or 85-275V AC 50mm range also available

Part Number	Description	Price	Per
DIS7211	● 70mm Blue 85-275V AC	£40.00	1
DIS7212	● 70mm Green 85-275V AC	£48.15	1
DIS7213	● 70mm Red 85-275V AC	£36.73	1
DIS7214	○ 70mm White 85-275V AC	£48.15	1
DIS7215	● 70mm Amber 85-275V AC	£36.73	1
DIS7221	● 70mm Blue 24V DC	£36.73	1
DIS7222	● 70mm Green 24V DC	£44.86	1
DIS7223	● 70mm Red 24V DC	£33.41	1
DIS7224	○ 70mm White 24V DC	£44.86	1
DIS7225	● 70mm Amber 24V DC	£33.41	1

- **Blue** - Signifies discontinuity status, action mandatory.
- **Green** - Signifies normal status, no action required.
- **Red** - Signifies danger status, immediate action required.
- **White** - Signifies other status, can be identified by the user.
- **Amber** - Signifies abnormal status, monitor or action required.

70mm Standard 4 Bolt Bases



Manufactured by Delta Design

Part Number	Description	Price	Per
DIS7001	4 Bolt Base 70mm Black	£13.03	1
DIS7002	4 Bolt Base 70mm White	£16.97	1

70mm Caps, Brackets & Bases (with 100mm tube)



Manufactured by Delta Design

Choose from 5 mounting options with matching 70mm diameter cap. The easy to mount modular system means that you can clip and fit any of our modular lamps, alarms and buzzers to the base of your choice.

Part Number	Description	Price	Per
① DIS7331	70mm Black Cap + Rotating Threaded Bracket	£13.85	1
② DIS7311	70mm Black Cap + L Bracket	£17.96	1
③ DIS7341	70mm Black Cap + Standard Base	£13.03	1
④ DIS7321	70mm Black Cap + Rotating Bracket	£28.56	1

70mm Buzzers for Tower Beacons 120dB



60-80 beeps per minute
Continuous / Intermittent buzzer

Part Number	Description	Price	Per
DIS7122X	70mm Buzzer Black 120dB 24V DC	£40.74	1

Delta Star Beacons

Delta Star RB Series



CE Certified
IP65 / Height: 120mm / Width: 148mm
Flash rate: 125 per min

Part Number	Description	Price	Per
470002	10-30V DC 15W Amber	£70.50	1
470003	10-30V DC 15W Red	£70.50	1

LED Beacons

LED High Profile Beacons (IP67)



delta design
ADVANCED WARNING TECHNOLOGY

CE Certified

IP67 (When installed) / Height: 95mm Width: 76mm
Flash rate 65 per min / Flashing and continuously lit modes
Clear lens with coloured LED / Low power consumption

Part Number	Description	Price	Per
LT-LEDMVRED	LED Multi-volt 10-100V DC Red	£42.96	1
LT-LEDMVAMBER	LED Multi-volt 10-100V DC Amber	£42.96	1

LED Low Profile Beacons (IP67)



delta design
ADVANCED WARNING TECHNOLOGY

CE Certified

IP67 (When installed) / Height: 45mm Width: 76mm
Flash rated 65 per min / Flashing and continuously lit modes
Clear lens with coloured LED / Low power consumption

Part Number	Description	Price	Per
447002	LED 110V / 230V Amber	£46.28	1
LP-LED110/230RED	LED 110V / 230V Red	£42.24	1

Xenon Beacons

High Profile Xenon Beacons (IP67)



delta design
ADVANCED WARNING TECHNOLOGY

CE Certified

IP67 (When installed) / Height: 95mm / Width: 76mm
Flash rate 75 per min

Part Number	Description	Price	Per
LT4XMV/2	2W Multi-volt 10-100V DC / 20-72V AC Amber	£37.75	1
LT4XMV/2RED	2W Multi-volt 10-100V DC / 20-72V AC Red	£37.75	1

Low Profile Xenon Beacons (IP67)



delta design
ADVANCED WARNING TECHNOLOGY

CE Certified

IP67 (When installed) / Height: 45mm / Width 76mm
LP1 flash rate 60 per min / LP4 flash rate 75 per min

Part Number	Description	Price	Per
LP4XMV/2	2W Multi-volt 10-100V DC / 20-72V AC Amber	£30.25	1
LP4XMV/2RED	2W Multi-volt 10-100V DC / 20-72V AC Red	£30.25	1
LP1X110/2	2W 110V AC (90-125V AC) Amber	£31.63	1
LP1X110/2RED	2W 110V AC (90-125V AC) Red	£31.63	1
LP1X230/2	2W 230V AC Amber	£30.59	1
LP1X230/2RED	2W 230V AC Red	£30.59	1

Accessories for all LED & Xenon High & Low Profile Beacons

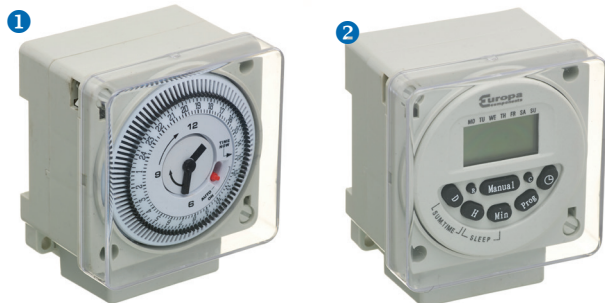
LPFX2	Mounting Base for LP & LT Beacons	£3.85	1
521058	Sounder + Pole for LP & LT Beacons 72dB 12-24V AC/DC	£65.09	1

NB: A wider range is available with a choice of different colours, voltages and sizes - please contact sales for availability

Time Clocks



Dual Mounting 230V Timers -
Can be Panel or Din Rail Mounted



CE Approved



- Panel mounting instructions
- Remove lid by undoing the fixing screws
- Cut panel hole: 67 x 67mm
- Locate the main body of the timer under the panel
- Connect the terminals as required beneath the panel (Before re-attaching the lid)
- Secure in position by re-attaching the lid, sandwiching the panel between the lid and the body of the timer. Using a screw driver turn out the secure holding tags

Part Number	Description	Price	Per
1 ET1624HAPM	24 Hour Analogue 1 Channel (15 Minute Segments) (Panel or Din Rail Mount)	£31.47	1
2 ET1624HDPM	7 Day Digital 1 Channel 16 Period (1 Minute Segments) (Panel or Din Rail Mount)	£32.92	1

24 Hour Time Clocks

ET1624HA (Can be Surface or Din Rail Mounted)



A 3 module 1 channel (1N/O + 1N/C contacts) timer with 96 segments on the wheel, each segment relating to 15 minutes. Any segment can be used to operate the time relay either in discreet 15 minute intervals or in multiple blocks of 15 minutes together. Battery back up.

Part Number	Description	Price	Per
ET1624HA	16A (AC-1) 230V AC 24 Hour Analogue	£31.47	1

ET1624HEA (Din Rail Mounted)



A 1 module 1 channel (1N/O contact) timer with 96 segments on the wheel, each segment relating to 15 minutes. Any segment can be used to operate the time relay either in discreet 15 minute intervals or in multiple blocks of 15 minutes together. Battery back up.

Part Number	Description	Price	Per
ET1624HEA	16A (AC-1) 230V AC 24 Hour Analogue	£46.46	1

7 Day Time Clocks

ET1624HD (Can be Surface or Din Rail Mounted)



A 3 module 1 channel (1N/O + 1N/C contacts) timer with up to 16 ON/OFF periods can be set for each day of the week. Any one period can be set between 1 Minute and 168 Hours. To simplify the setting of the day or days that are required there are a number of preset combinations of days within the programme. Manual Summer / Winter adjustment. Battery back up.

Part Number	Description	Price	Per
ET1624HD	16A (AC-1) 230V AC 7 Day 24 Hour Digital	£32.92	1

ET167D2C (Din Rail Mounted)



A 2 module 2 channel (2N/O + 2N/C contacts) timer with up to 44 memory settings. 24hr (1 minute) ON/OFF periods can be set for each day of the week. Ideal for switching lighting or alarm systems. Channels independently Programmable. Auto Summer / Winter adjustment. Battery back up.

Part Number	Description	Price	Per
ET167D2C	16A (AC-1) 230V AC 7 Day 24 Hour Digital	£57.06	1

ET167DYD (Din Rail Mounted)



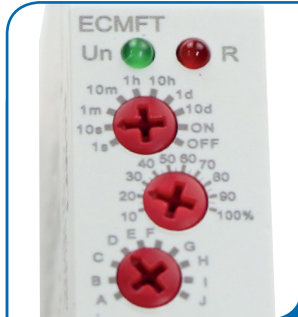
A 2 module 1 channel (1N/O + 1N/C contacts) timer with up to 16 ON/OFF periods can be set for each day of the week. Any one period can be set between 1 Minute and 168 Hours. To simplify the setting of the day or days that are required there are a number of preset combinations of days within the programme. Battery back up.

Part Number	Description	Price	Per
ET167DYD	16A (AC-1) 230V AC 7 Day 24 Hour Digital	£35.88	1

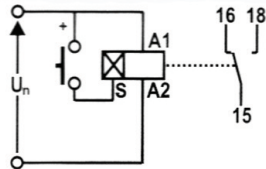
Relays

Multi Function Timers

Multi Function Timer 0-10 Days 16A 12-230V AC/DC



See page 157
for time functions



CE Certified / EN 61812
IP40 for front panel / **IP20** terminals.
Rated current 16A / 230V AC
1P changeover contact
10 time functions / 8 time ranges
Module width: 17.5mm
Din rail mounting



Part Number	Description	Price	Per
ECMFT	Multi Timer 0.1 Sec - 10 Days	£37.50	1

Latching Relays

Latching Relays



CE Certified / EN 61810 / EN 61010
IP40 for front panel / **IP20** terminals / Rated current 16A / AC1
Output: 1 x SPDT (ECLR01) / 2 x SPDT (ECLR02)
Module width: 17.5mm / Din rail mounting

Part Number	Description	Price	Per
① ECLR01	16A 1P C/O 12 - 240V AC/DC	£18.60	1
② ECLR02	16A 2P C/O 12 - 240V AC/DC	£22.58	1

Level Control Relays

Level Control Relays



CE Certified / EN61812-1 / EN61010-1
1 or 2 level control relay, adjustable sensitivity
IP40 for front panel / **IP20** terminals.
Output: 1 x SPDT Current rating AC1 16A.
Modular width: 17.5mm. Din rail mounting.
Operating temperature -20 +55°C

Part Number	Description	Price	Per
ECLC03	1 or 2 Level Control	£35.85	1

Staircase Time Clocks

16A Staircase Timer (Din Rail Mounting)



CE Certified / EN 60669 / EN 61010
IP40 for front panel / **IP20** terminals / **Output:** 1 x SPST
Time range: 0.5, 5, 10, 15, 20 minutes / Minimum setting 0.5 minutes
Module width: 17.5mm / Din rail mounting
Operating temperature -20 to +55°C
Types of lamps:

2000W	2000W	1000W	900W(125uF)	400W

Part Number	Description	Price	Per
ETSTCA	230V 0.5 - 20 Minutes	£21.24	1

Phase Failure Relays

Phase Failure Relays



CE certified / EN 60255 / EN 61010

IP40 for front panel / IP20 terminals

Output: 1 x SPDT / Current rating: 10A / AC1

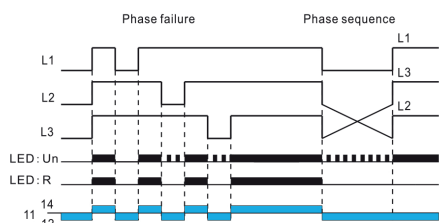
Module width: 17.5mm / Din rail mounting

Operating temperature -20 to +55°C

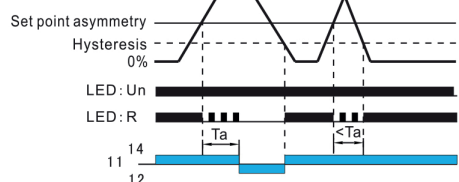


Part Number	Description	Price	Per
1 ECPF02	Single Phase AC/DC 110-240V	£31.51	1
2 ECPF03	Phase Loss / Sequence	£16.85	1
3 ECPF05	Phase Loss / Sequence Unbalanced Supply	£27.98	1
4 ECPF08	Over / Under Voltage Phase Failure	£23.64	1

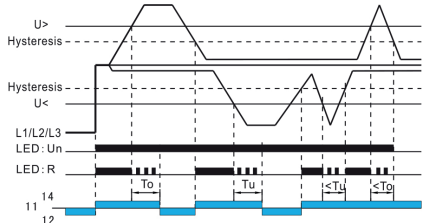
●Phase failure and phase sequence function diagram



●Asymmetry function diagram



●Overvoltage and undervoltage function diagram



Star Delta Timer Relays

Star Delta Timer Relays



CE Certified / EN61812-1 / EN61010-1

IP40 for front panel / IP20 terminals

Output: 1 x SPDT

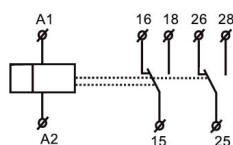
Current rating AC1 16A.

Modular width: 17.5mm. Din rail mounting.

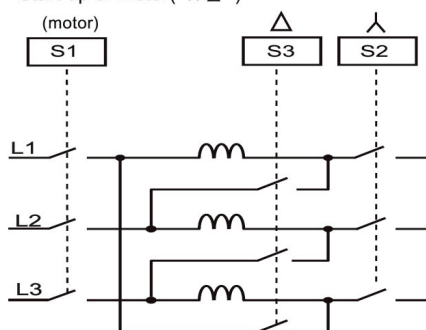
Operating temperature -20 +55°C

Part Number	Description	Price	Per
1 ECSDS230	12-230V AC/DC	£31.19	1
2 ECSDS400	400V	£31.19	1

Star Delta Timer Wiring Diagram

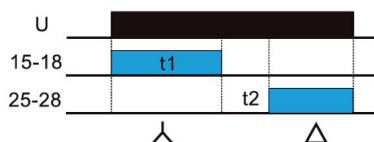


Start up of motor(λ-Δ)



Star Delta Timer Function Diagram

Delay ON star / delta



Relays for industry



Industrial relays

Applications:

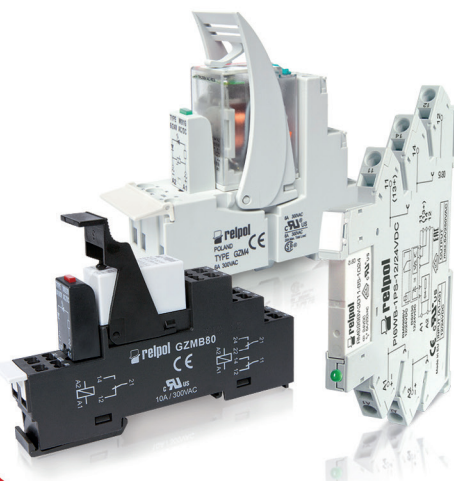
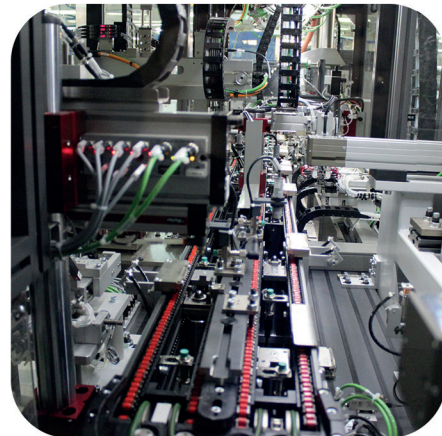
- general control of electrical equipment,
- industrial control systems,
- equipment for air-conditioning, refrigeration products, heating, ventilation, lighting,
- protection, monitoring and alarm equipment,
- control systems and devices for household equipment, electrical automation systems - industrial and power-engineering automation,
- building automation equipment (BMS) and other.



Interface relays

Applications:

- in applications with PLC's as input / output [I/O] separators,
- in industrial automation applications for isolation of digital input signals from output circuits,
- in electrical applications as universal interfaces between control and load, for medium load switching,
- applications specified for industrial relays.

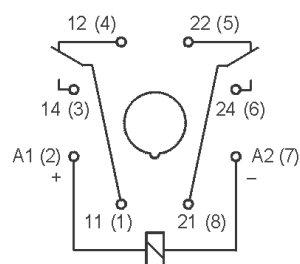
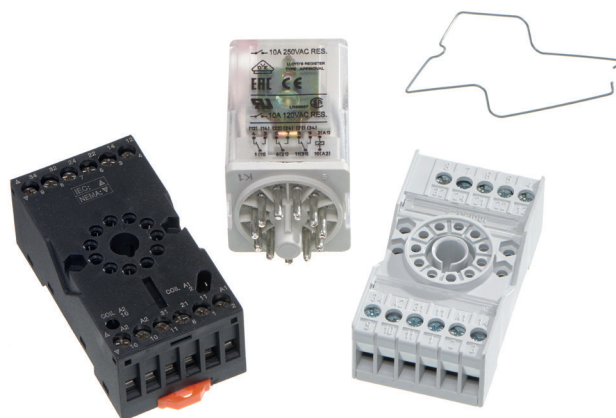
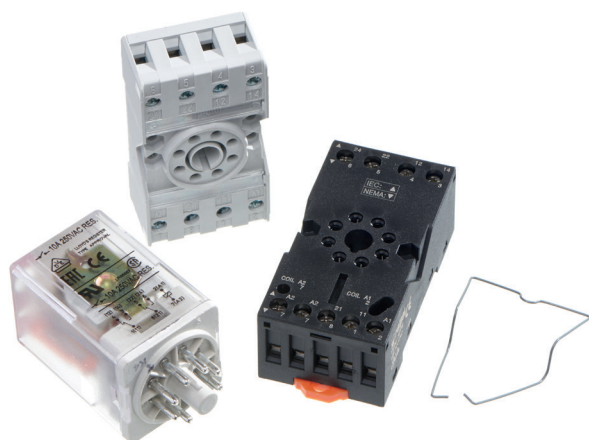


Manufacturing
Relays and Timers
in Europe since 1958

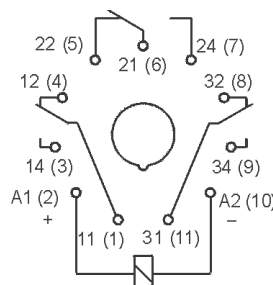
Relpol Relays
Power Relays

Octal 11 Pin Relays 10A 3PCO

Octal 8 Pin Relays 10A 2PCO



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UL, CSA and VDE Approved and Lloyds Registered
LED, flag indicator and lockable test button
10A rated 2PCO contacts / Time module available

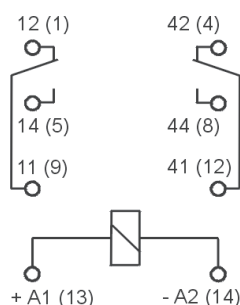
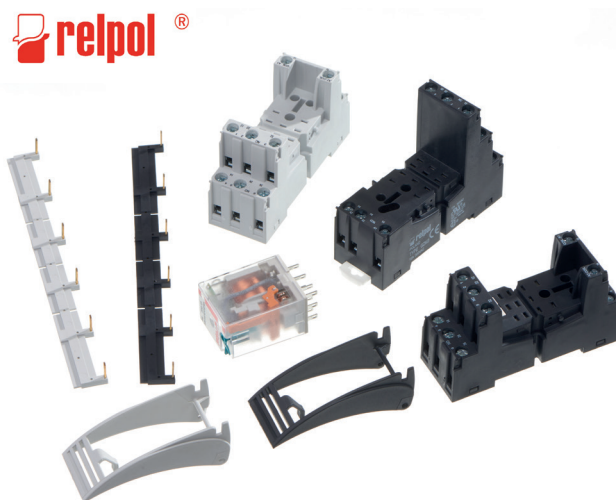
UL, CSA and VDE Approved and Lloyds Registered
LED, flag indicator and lockable test button
10A rated 3PCO contacts / Time module available

Part Number	Description	Price	Per
R15-2012-23-1012-WTL	12V DC	£8.25	1
R15-2012-23-1024-WTL	24V DC	£8.25	1
R15-2012-23-1048-WTL	48V DC	£8.25	1
R15-2012-23-5012-WTL	12V AC	£8.25	1
R15-2012-23-5024-WTL	24V AC	£8.25	1
R15-2012-23-5048-WTL	48V AC	£8.25	1
R15-2012-23-5110-WTL	110V AC	£8.25	1
R15-2012-23-5230-WTL	230V AC	£8.25	1
GZP8-BLACK	Black 8 pin socket screw terminals	£3.71	1
PZ8-GREY	Grey 8 pin socket screw terminals	£4.56	1
PZ11-0031	Wire retaining clip	£0.33	1

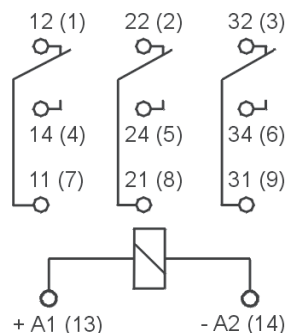
Part Number	Description	Price	Per
R15-2013-23-1012-WTL	12V DC	£9.01	1
R15-2013-23-1024-WTL	24V DC	£9.01	1
R15-2013-23-5012-WTL	12V AC	£9.01	1
R15-2013-23-5024-WTL	24V AC	£9.01	1
R15-2013-23-5048-WTL	48V AC	£9.01	1
R15-2013-23-5110-WTL	110V AC	£9.01	1
R15-2013-23-5230-WTL	230V AC	£9.01	1
GZP11-BLACK	Black 11 pin socket screw terminals	£3.71	1
PZ11-GREY	Grey 11 pin socket screw terminals	£4.66	1
PZ11-0031	Wire retaining clip	£0.33	1

8 Pin Miniature Industrial Relay 12A 2PCO

11 Pin Miniature Industrial Relay 10A 3PCO



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UL, CSA and VDE Approved and Lloyds Registered

LED, flag indicator and lockable test button
12A rated 2PCO contacts

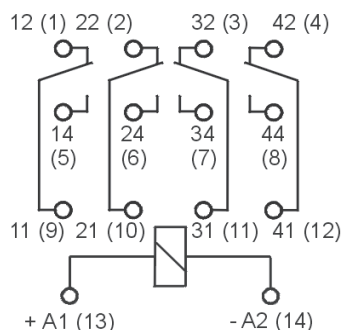
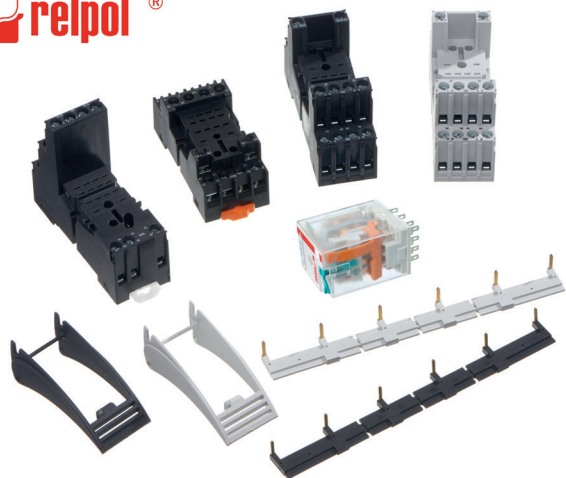
Part Number	Description	Price	Per
R2N-2012-23-1012-WTL	12V DC	£4.45	1
R2N-2012-23-1024-WTL	24V DC	£4.45	1
R2N-2012-23-5012-WTL	12V AC	£4.45	1
R2N-2012-23-5024-WTL	24V AC	£4.45	1
R2N-2012-23-5110-WTL	110V AC	£4.45	1
R2N-2012-23-5230-WTL	230V AC	£4.45	1
GZT2-BLACK	Black 8 pin turret screw terminals	£2.92	1
GZT2-GREY	Grey 8 pin turret screw terminals	£2.92	1
GZM2-BLACK	Black 8 pin socket screw terminals isolated	£3.29	1
GZT4-0040-BLACK	Eject / retain clip plastic	£0.48	1
GZT4-0040-GREY	Eject / retain clip plastic	£0.48	1
ZGGZ4-BLACK	Black 6 way connection strip	£3.07	1
ZGGZ4-GREY	Grey 6 way connection strip	£3.07	1

UL, CSA and VDE Approved and Lloyds Registered

LED, flag indicator and lockable test button
10A rated 3PCO contacts

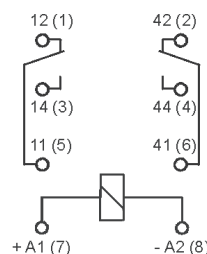
Part Number	Description	Price	Per
R3N-2013-23-1012-WTL	12V DC	£5.41	1
R3N-2013-23-1024-WTL	24V DC	£5.41	1
R3N-2013-23-5012-WTL	12V AC	£5.41	1
R3N-2013-23-5024-WTL	24V AC	£5.41	1
R3N-2013-23-5110-WTL	110V AC	£5.41	1
R3N-2013-23-5230-WTL	230V AC	£5.41	1
GZT3-BLACK	Black 11 pin turret screw terminals	£3.29	1
GZT3-GREY	Grey 11 pin turret screw terminals	£3.29	1
GZM3-BLACK	Black 11 pin socket screw terminals isolated	£3.98	1
GZT4-0040-BLACK	Eject / retain clip plastic	£0.48	1
GZT4-0040-GREY	Eject / retain clip plastic	£0.48	1
ZGGZ4-BLACK	Black 6 way connection strip	£3.07	1
ZGGZ4-GREY	Grey 6 way connection strip	£3.07	1

14 Pin Miniature Industrial Relay 7A 4PCO



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Miniature High Current Relay 12A 2PCO

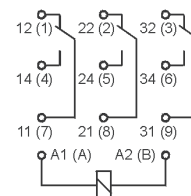


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UL and CSA Approved
12A rated 2PCO Contacts / Faston connection

Part Number	Description	Price	Per
RY2-1012-26-1024	24V DC	£9.81	1
RY2-1012-26-5024	24V AC	£9.81	1
RY2-1012-26-5230	230V AC	£10.18	1
GZY2G-BLACK	Socket for RY	£4.93	1

High Current Relay 16A 3PCO



UL and CSA Approved
16A rated 3PCO contacts / Faston connection

Part Number	Description	Price	Per
RUC-1013-26-1024	24V DC	£13.36	1
RUC-1013-26-3024	24V AC	£13.36	1
RUC-1013-26-3230	230V AC	£13.67	1
GUC11-GREY	Socket for RUC	£9.81	1



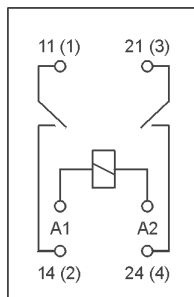
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UL, CSA and VDE Approved and Lloyds Registered
LED, flag indicator and lockable test button
7A rated 4PCO contacts

Part Number	Description	Price	Per
R4N-2014-23-1012-WTL	12V DC	£4.35	1
R4N-2014-23-1024-WTL	24V DC	£4.35	1
R4N-2014-23-5012-WTL	12V AC	£4.35	1
R4N-2014-23-5024-WTL	24V AC	£4.35	1
R4N-2014-23-5110-WTL	110V AC	£4.35	1
R4N-2014-23-5230-WTL	230V AC	£4.35	1
GS4-BLACK	Black 14 pin socket screw terminals	£4.51	1
GZT4-BLACK	Black 14 pin turret screw terminals	£3.29	1
GZT4-GREY	Grey 14 pin turret screw terminals	£3.29	1
GZM4-BLACK	Black 14 pin screw terminals isolated	£3.98	1
GZT4-0040-BLACK	Eject / retain clip plastic	£0.48	1
GZT4-0040-GREY	Eject / retain clip plastic	£0.48	1
ZGGZ4-BLACK	6 way connection strip	£3.07	1
ZGGZ4-GREY	6 way connection strip	£3.07	1

High Current Din Mount Relay 25A 2PNO



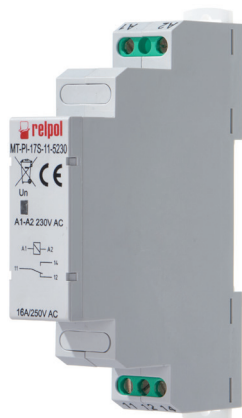
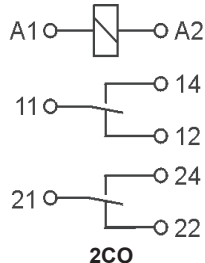
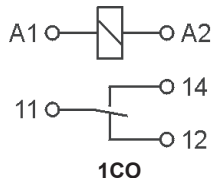
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2PNO contacts / 25AAC-1 / 5AAC-3

Part Number	Description	Price	Per
RG25-1022-28-1024	24V DC	£17.17	1
RG25-1022-28-3024	24V AC	£17.17	1
RG25-1022-28-3230	230V AC	£17.17	1
RG25-1022-28-3380	380V AC	£17.17	1

Modular Relay 16A SPCO / 8A DPCO



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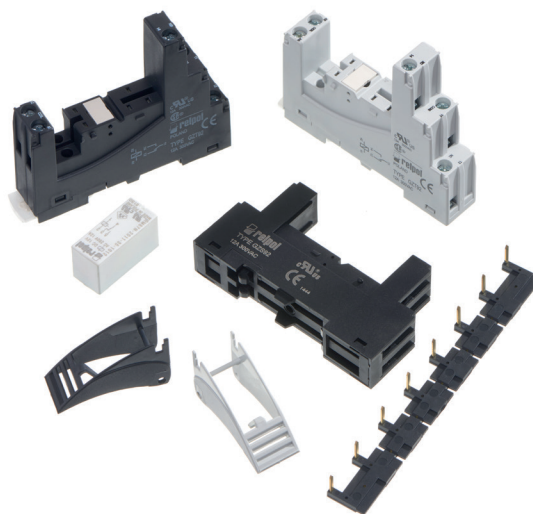


Din mount in modular form / Fits into consumer units

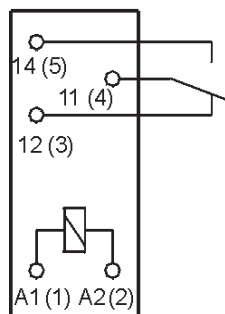
Part Number	Description	Price	Per
MT-PI-17S-11-5230	16A SPCO 230V AC	£22.68	1
MT-PI-17S-12-5230	8A DPCO 230V AC	£22.68	1



5 Pin Slimline Low Profile Relay 12A SPCO



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UL, CSA and VDE Approved

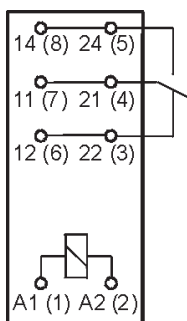
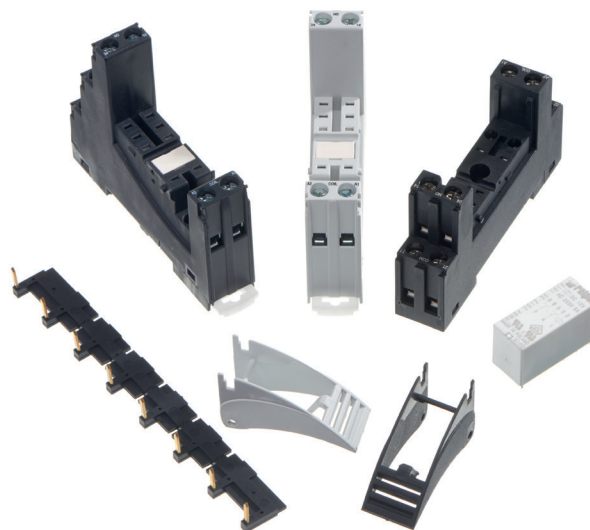
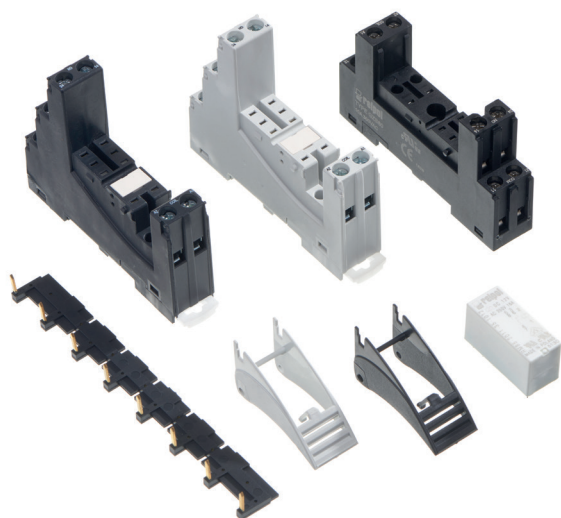
Relay height 15.7mm / PCB or din rail socket mounting
SPCO 12A contacts / 5 pin

Part Number	Description	Price	Per
RM87N-2011-35-1012	12V DC	£3.50	1
RM87N-2011-35-1024	24V DC	£3.50	1
RM87N-2011-35-5024	24V AC	£3.50	1
RM87N-2011-35-5230	230V AC	£5.41	1
GZS92-BLACK	Black 5 pin low profile screw terminals	£3.45	1
GZT92-BLACK	Black 5 pin screw terminals isolated	£4.13	1
GZT92-GREY	Grey 5 pin screw terminals isolated	£4.13	1
GZT80-0040-BLACK	Eject / retain clip plastic	£0.32	1
GZT80-0040-GREY	Eject / retain clip plastic	£0.32	1
ZGGZ80-GREY	Grey 8 way connection strip	£3.07	1
ZGGZ80-BLACK	Black 8 way connection strip	£3.07	1

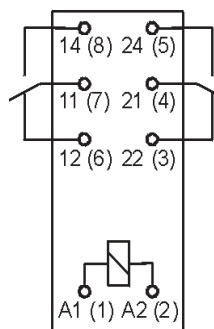


8 Pin Slimline Low Profile Relay 16A SPCO

8 Pin Slimline Low Profile Relay 8A DPCO



Please scan me to view the data sheet



Please scan me to view the data sheet



UL, CSA and VDE Approved

Relay height 15.7mm / PCB or din rail socket mounting
SPCO 16A contacts / 8 pin

Part Number	Description	Price	Per
RM85-2011-35-1012	12V DC	£4.24	1
RM85-2011-35-1024	24V DC	£4.24	1
RM85-2011-35-5024	24V AC	£4.24	1
RM85-2011-35-5110	110V AC	£5.41	1
RM85-2011-35-5230	230V AC	£5.41	1
GZS80-BLACK	Black 8 pin low profile screw terminals	£3.45	1
GZT80-BLACK	Black 8 pin screw terminals isolated	£4.19	1
GZT80-GREY	Grey 8 pin screw terminals isolated	£4.19	1
GZT80-0040-BLACK	Eject / retain clip plastic	£0.32	1
GZT80-0040-GREY	Eject / retain clip plastic	£0.32	1
ZGGZ80-GREY	Grey 8 way connection strip	£3.07	1
ZGGZ80-BLACK	Black 8 way connection strip	£3.07	1

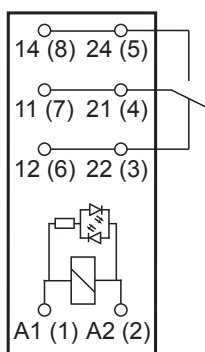
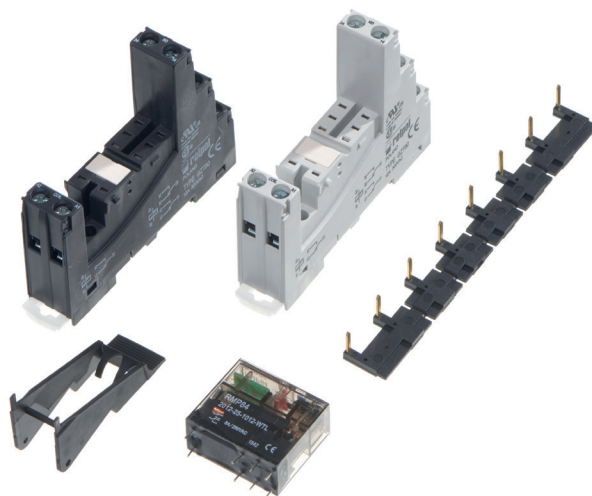
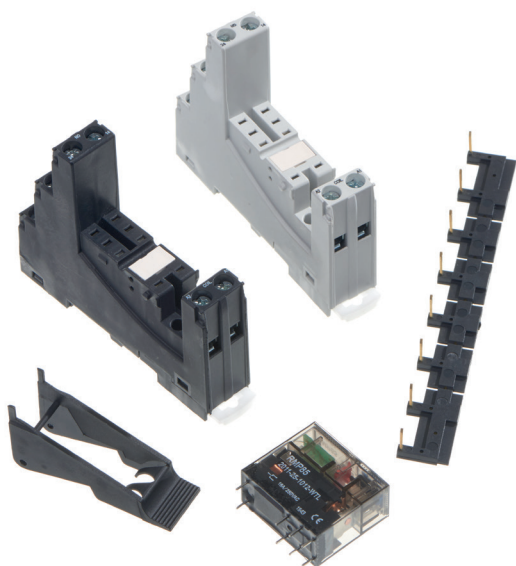
UL, CSA and VDE Approved

Relay Height 15.7mm / PCB or din rail socket mounting
DPCO 8A contacts / 8 pin

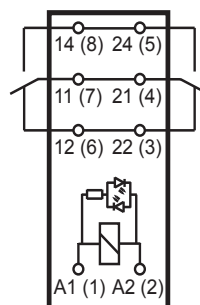
Part Number	Description	Price	Per
RM84-2012-35-1012	12V DC	£4.24	1
RM84-2012-35-1024	24V DC	£4.24	1
RM84-2012-35-5012	12V AC	£4.24	1
RM84-2012-35-5024	24V AC	£4.24	1
RM84-2012-35-5110	110V AC	£5.41	1
RM84-2012-35-5230	230V AC	£5.41	1
GZS80-BLACK	Black 8 pin low profile screw terminals	£3.45	1
GZT80-BLACK	Black 8 pin screw terminals isolated	£4.19	1
GZT80-GREY	Grey 8 pin screw terminals isolated	£4.19	1
GZT80-0040-BLACK	Eject / retain clip plastic	£0.32	1
GZT80-0040-GREY	Eject / retain clip plastic	£0.32	1
ZGGZ80-GREY	8 way connection strip	£3.07	1
ZGGZ80-BLACK	8 way connection strip	£3.07	1

8 Pin Slimline Relay 16A SPCO

8 Pin Slimline Relay 8A DPCO



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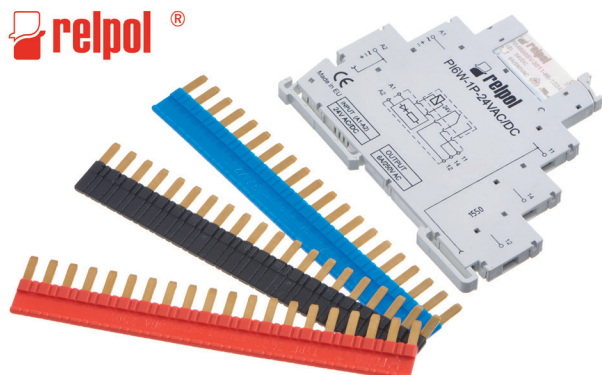
LED, Flag Indicator and Lockable test button
Relay height 25.5mm / PCB or din rail socket mounting
SPCO 16A contacts / 8 pin

Part Number	Description	Price	Per
RMP85-2011-1012-WTL	12V DC	£10.39	1
RMP85-2011-1024-WTL	24V DC	£10.39	1
RMP85-2011-5024-WTL	24V AC	£10.55	1
RMP85-2011-5230-WTL	230V AC	£12.46	1
GZT80-BLACK	Black 8 pin screw terminals isolated	£4.19	1
GZT80-GREY	Grey 8 pin screw terminals isolated	£4.19	1
GZS-0025-BLACK	Eject / retain clip plastic	£0.20	1
ZGGZ80-GREY	Grey 8 way connection strip	£3.07	1
ZGGZ80-BLACK	Black 8 way connection strip	£3.07	1

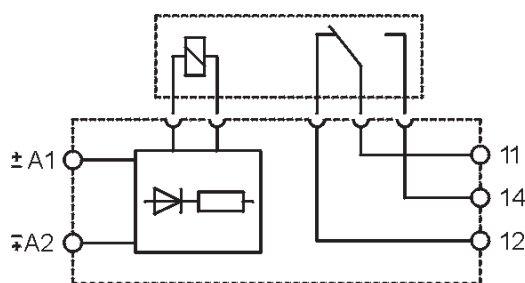
LED, Flag Indicator and Lockable test button
Relay height 25.5mm / PCB or din rail socket mounting
DPCO 8A contacts / 8 pin

Part Number	Description	Price	Per
RMP84-2012-1012-WTL	12V DC	£10.39	1
RMP84-2012-1024-WTL	24V DC	£10.39	1
RMP84-2012-5024-WTL	24V AC	£10.55	1
RMP84-2012-5230-WTL	230V AC	£12.46	1
GZT80-BLACK	Black 8 pin screw terminals isolated	£4.19	1
GZT80-GREY	Grey 8 pin screw terminals isolated	£4.19	1
GZS-0025-BLACK	Eject / retain clip plastic	£0.20	1
ZGGZ80-GREY	Grey 8 way connection strip	£3.07	1
ZGGZ80-BLACK	Black 8 way connection strip	£3.07	1

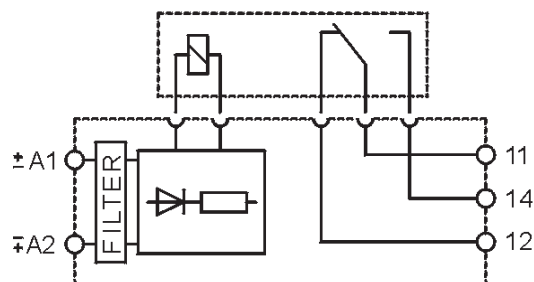
Interfacing Relay



PIR6W-1P



PIR6W-1PS



Please scan me to view the data sheet for PIR6W-1P



Please scan me to view the data sheet for PIR6W-1PS

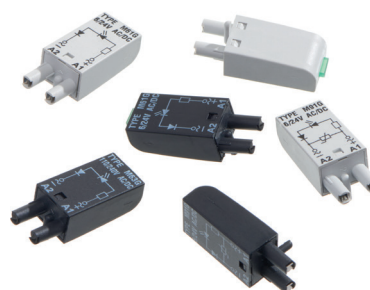


UL and CSA Approved

LED indicator / Relay eject mechanism / 6mm wide din rail mounting

Part Number	Description	Price	Per
PIR6W-1P-24VAC/DC	24V AC/DC 6A relay output	£10.02	1
PIR6W-1P-230VAC	230V AC 6A relay output	£10.44	1
PIR6W-1PS-24VDC-T	24V DC triac output	£27.88	1
ZG20-RED	Red 20 way comb connection bar	£3.71	1
ZG20-BLACK	Black 20 way comb connection bar	£3.71	1
ZG20-BLUE	Blue 20 way comb connection bar	£3.71	1

Plug-in Protection Modules



To fit all GZT and GZM sockets / Held captive when relay is fitted

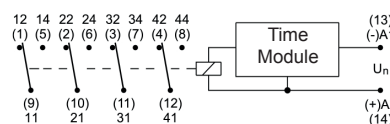
Part Number	Description	Price	Per
M21N-BLACK	6/230V DC overvoltage limiter	£2.33	1
M61G-BLACK	6/24V AC/DC LED indicator	£2.33	1
M63G-BLACK	110/230V AC/DC LED indicator	£2.33	1
M41G-BLACK	6/24V DC LED + overvoltage limiter	£2.33	1
M91G-BLACK	6/24V AC LED + overvoltage limiter	£2.33	1
M21N-GREY	6/230V DC overvoltage limiter	£2.33	1
M61G-GREY	6/24V AC/DC LED indicator	£2.33	1
M63G-GREY	110/230V AC/DC LED indicator	£2.33	1
M41G-GREY	6/24V DC LED + overvoltage limiter	£2.33	1
M91G-GREY	6/24V AC LED + overvoltage limiter	£2.33	1

Plug-In Timers

Time Delay 6A 4PCO



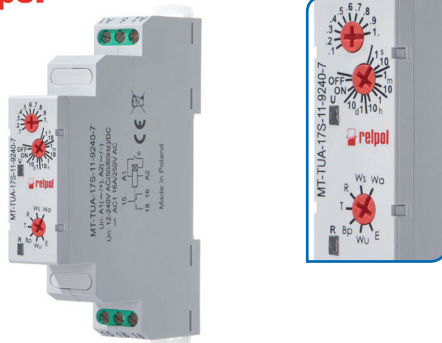
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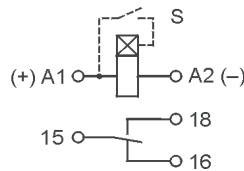
14 pin 4PCO 6A contacts / Selectable time ranges 1s to 100h
Complete with retaining clip

Part Number	Description	Price	Per
Delay On Energisation			
T-R4E-2014-23-1024	24V DC	£34.13	1
T-R4E-2014-23-5024	24V AC	£34.13	1
T-R4E-2014-23-5115	115V AC	£34.13	1
T-R4E-2014-23-5230	230V AC	£34.13	1
GZM4-GREY	Grey 14 pin screw terminals isolated	£3.98	1
Delay Off Energisation			
T-R4WU-2014-23-1024	24V DC	£34.13	1
T-R4WU-2014-23-5024	24V AC	£34.13	1
T-R4WU-2014-23-5230	230V AC	£34.13	1
GZM4-GREY	Grey 14 pin screw terminals isolated	£3.98	1

Multifunction Timer 10A SPCO



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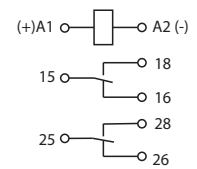
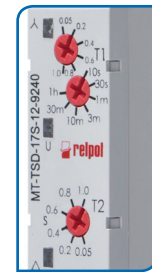
10 function / 8 time ranges / SPCO 10A rated contacts
Modular din rail mount

Part Number	Description	Price	Per
MT-TUA-17S-11-9240-7	12/240V AC/DC	£39.75	1

Star Delta Timer 10A 2 x SPCO



Please scan me to view the data sheet



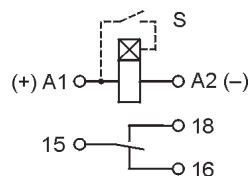
2 x SPCO 10A rated contacts / Modular din rail mount
Adjustable dwell time

Part Number	Description	Price	Per
MT-TSD-17S-12-9240	12/240V AC/DC	£39.75	1

Multifunction Digital Timer 10A SPCO



Please scan me to view the data sheet



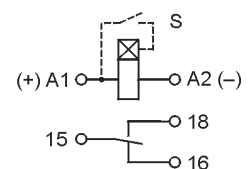
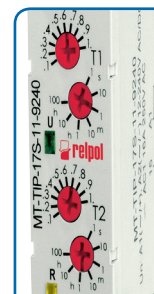
22 function / 8 time ranges / SPCO 10A rated contacts
Modular din rail mount

Part Number	Description	Price	Per
MT-W-17S-11-9240-M	12/240V AC/DC	£71.44	1

Asymmetrical Recycling Timer 10A SPCO



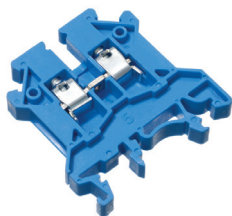
Please scan me to view the data sheet



SPCO 10A rated contacts / Modular din rail mount
Selectable time ranges 1s to 100h

Part Number	Description	Price	Per
MT-TIP-17S-12-9240	12/240V AC/DC	£34.45	1

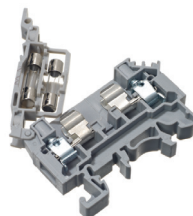
Din Rail Terminals & Accessories



Feed-through screw clamp terminals: CTS2.5UN - CTS95U

A versatile range of universal (35mm) din rail mounting terminal blocks taking wire from 0.5 to 95mm sq.

The flexible foot enables easy mount / dismant from the din rail with a screwdriver. The terminals are available in a variety of colours and take international K (Insert type) markers.



Single level safety fuse link terminals: CSFL4U

For electrical and control applications that require fuse protection.

The terminal block has a hinged fuse carrier for 5 x 20mm fuses up to 6.3A. A wider range complete with an LED fuse blown indicator are also available. Please ask sales for details.

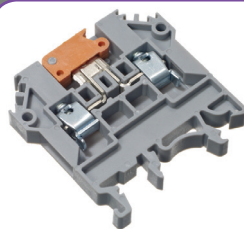


Double level terminals: CDL4U

The ideal solution for applications with high wiring density.

Useful features include:

- Double level wiring density.
- Interconnection / shorting at both levels.
- K type ID markers can be fitted at both levels.



Knife disconnect terminals: CKT4U

Ideal for measuring, control and regulatory circuits.

Disconnection is achieved by lifting the orange

hinged lever, operating a knife contact.

NB: These are not suitable for interrupting the load. The supply must be switched OFF before moving the hinged lever.

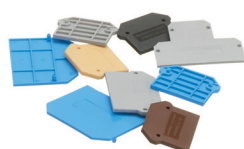


Earth terminals: CGT4U - CGT35U

Green and yellow earth terminals taking wire from 0.5 to 35mm sq.

Other features include:

- Tin plated brass foot for low contact resistance.
- Vibration proof grounding (Tighten central screw).
- High torque clamping yokes accept a wide range of wires.



End Plates: CTSEP

End Plates are used to cover the live parts of the last terminal block making the assembly finger safe.

Not required on CTS16, 50 & 95 terminals.

	CTS2.5UN	CTS4UN	CTS6U	CTS10U	CTS16U	CTS25U	CTS35U	CTS50U	CTS95U
Terminal Block Pitch (mm) (Width)	5	6	8	10	12	12	15	20.5	25
Connection Via Stranded Wire (sq. mm)	0.5 to 2.5	0.5 to 4	1.5 to 6	1.5 to 10	2.5 to 16	6 to 25	10 to 35	16 to 50	16 to 95
Connection Via Solid Wire (sq. mm)	0.5 to 4	0.5 to 6	1.5 to 10	1.5 to 16	2.5 to 25	6 to 35	10 to 50	16 to 70	16 to 120
Voltage Rating	800V	800V	800V	800V	800V	800V	800V	1000V	1000V
Current Rating	24A	32A	41A	57A	76A	101A	125A	150A	232A

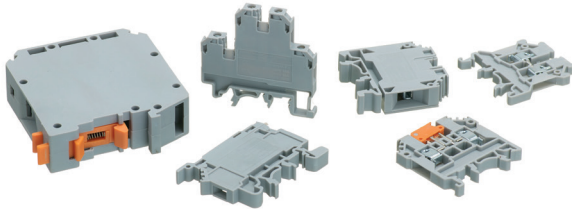
	CGT4U Earth Terminal	CGT6U Earth Terminal	CGT10U Earth Terminal	CGT16U Earth Terminal	CGT35U Earth Terminal
Terminal Block Pitch (mm) (Width)	6	8	10	12	16
Connection Via Stranded Wire (sq. mm)	0.5 to 4	1.5 to 6	0.5 to 10	2.5 to 16	10 to 35
Connection Via Solid Wire (sq. mm)	0.5 to 6	1.5 to 10	0.5 to 16	2.5 to 25	10 to 50
Current Rating	32A	41A	57A	76A	125A

Din Rail Terminals

UR, CSA & VDE Certified

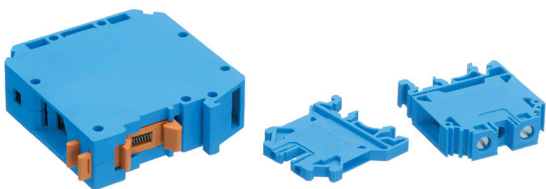
NB: A wider range of colours and sizes are available from stock

Grey Terminals



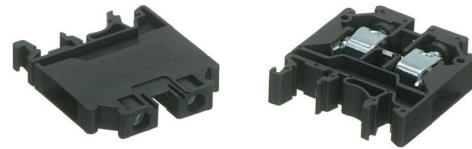
Part Number	Description	Price	Per
CTS2.5UN	2.5mm Grey	£38.14	100
CTS4UN	4mm Grey	£43.71	100
CTS6U	6mm Grey	£52.13	100
CTS10U	10mm Grey	£68.24	100
CTS16U	16mm Grey (with Integrated End Plate)	£100.98	100
CTS25U	25mm Grey	£116.76	100
CTS35U	35mm Grey	£195.18	100
CTS50U	50mm Grey (with Integrated End Plate)	£12.34	1
CTS95U	95mm Grey (with Integrated End Plate)	£20.21	1
CSFL4U	4mm fuse term Grey (use 5 x 20mm fuse) (6.3A Max)	£137.58	100
CDL-4U	4mm Grey Double Decker Terminal	£120.62	100
CKT4U	4mm Grey Knife Disconnect Terminal	£171.88	100

Blue Terminals



Part Number	Description	Price	Per
CTS2.5UNBLUE	2.5mm Blue	£46.10	100
CTS4UNBLUE	4mm Blue	£52.82	100
CTS6UNBLUE	6mm Blue	£63.00	100
CTS10UBLUE	10mm Blue	£81.90	100
CTS16UBLUE	16mm Blue (with Integrated End Plate)	£121.17	100
CTS25UBLUE	25mm Blue	£140.11	100
CTS35UBLUE	35mm Blue	£234.22	100
CTS50UBLUE	50mm Blue (with Integrated End Plate)	£14.81	1
CTS95UBLUE	95mm Blue (with Integrated End Plate)	£24.25	1

Black Terminals



Part Number	Description	Price	Per
CTS6UNBLACK	6mm Black	£63.00	100
CTS10UBLACK	10mm Black	£81.90	100

Brown Terminals



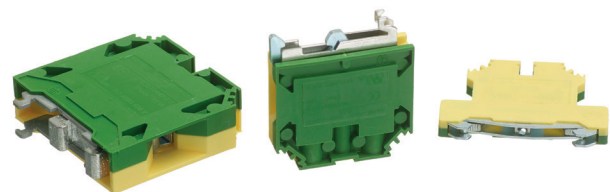
Part Number	Description	Price	Per
CTS2.5UNBROWN	2.5mm Brown	£46.10	100
CTS4UNBROWN	4mm Brown	£52.82	100
CTS6UNBROWN	6mm Brown	£63.00	100
CTS10UBROWN	10mm Brown	£81.90	100

Beige Terminals



Part Number	Description	Price	Per
CTS2.5UNBEIGE	2.5mm Beige	£46.10	100
CTS4UNBEIGE	4mm Beige	£52.82	100

Earth Terminals



Part Number	Description	Price	Per
CGT4U	4mm Earth Terminal	£146.36	100
CGT6U	6mm Earth Terminal	£174.67	100
CGT10U	10mm Earth Terminal	£243.66	100
CGT16U	16mm Earth Terminal	£301.62	100
CGT35U	35mm Earth Terminal	£526.95	100

Din Rail Terminal Accessories

End Plates



End Plates are used to cover the live parts of the last terminal block making the assembly finger safe.

Not required on CTS16, 50 & 95 terminals.

Part Number	Description	Price	Per
CTSEP5U	2.5 - 4mm Grey	£22.92	100
CSFLEPU	4mm Fuse Terminal Grey	£27.90	100
CDL-4U-EP	4mm Double Decker Grey	£27.74	100
CKTEPU	4mm Grey Knife Disconnect End Plate	£30.67	100
CTSEP2U	6 - 10mm Grey	£22.92	100
CTSEP3U	25mm Grey	£57.08	100
CTSEP4U	35mm Grey	£57.08	100
CTSEP5UBLUE	2.5 - 4mm Blue	£27.51	100
CTSEP2UBLUE	6 - 10mm Blue	£27.51	100
CTSEP3UBLUE	25mm Blue	£68.50	100
CTSEP4UBLUE	35mm Blue	£68.50	100
CTSEP5UBLACK	2.5 - 4mm Black	£27.51	100
CTSEP2UBLACK	6 - 10mm Black	£27.51	100
CTSEP5UBROWN	2.5 - 4mm Brown	£27.51	100
CTSEP2UBROWN	6 - 10mm Brown	£27.51	100
CTSEP5UBEIGE	2.5 - 4mm Beige	£27.51	100

Partition Plates



Partition plates identify & segregate terminal block groups & can be used to electrically isolate adjacent cross connection sets. The partition plate also maintains the required creepage and clearance values in the assembly.

Part Number	Description	Price	Per
CTSP5U	2.5 - 4mm Grey	£34.43	100
CTSP2U	6 - 10mm Grey	£38.19	100
CTSP3U	25mm Grey	£57.09	100
CTSP4U	35mm Grey	£57.09	100

Blank Terminal Markers

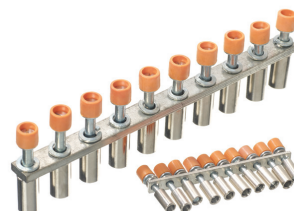


Numbered markers are available from stock

Part Number	Description	Price	Per
CA509/K2	* Blank for 4 - 35mm (1/2 Height)	£6.63	100
CA509/K5	Blank 2.5mm	£3.84	100
CA509/K6	Blank 4mm	£3.84	100
CA509/K8	Blank 6mm	£3.84	100
CA509/K9	Blank 8mm	£3.84	100
CA509/K10	Blank 10mm	£3.84	100
CA509/K12	Blank 16mm and 25mm	£3.84	100
CA509/K15	Blank 35mm	£3.84	100

NB: * The CA509/K2 should be used with the CDL-4U double decker terminal.

Jumper Bars (10 Way Insulated Shorting Links)



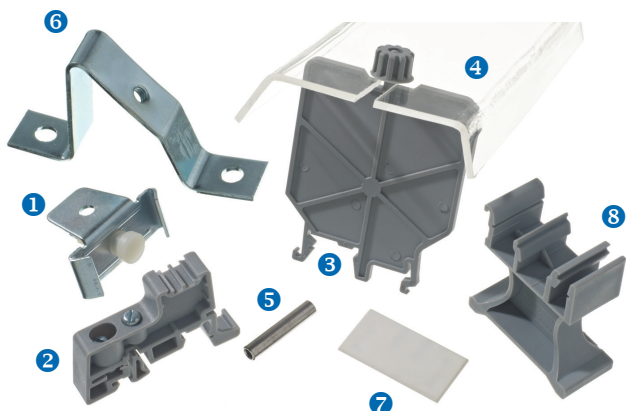
Part Number	Description	Price	Per
CA741/10	2.5mm	£5.14	1
CA742/10	4mm	£5.14	1
CA743/10	6mm	£5.14	1
CA744/10	10mm	£5.80	1
CA761/10	16mm	£7.24	1
CA745/10	25mm	£7.81	1
CA746/10	35mm	£8.77	1

10 Way Insulated Comb Busbar



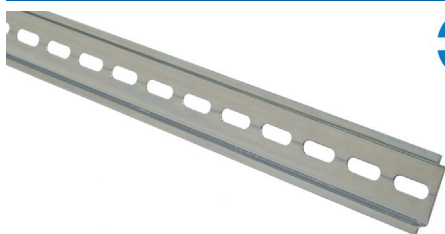
Part Number	Description	Price	Per
CA713/10	for 4mm ² Terminals	£1.59	1
CA710/10	for 6mm ² Terminals	£1.91	1
CA718/10	for 10mm ² Terminals	£2.39	1

Din Rail Terminal Accessories



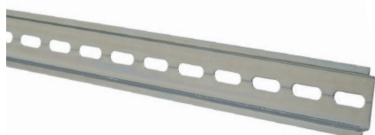
Part Number	Description	Price	Per
1 CA302	Steel End Clamp for 35mm Din Rail	£0.39	1
2 CA702	End Stop (keeps end plate in position)	£0.48	1
3 CSP1	Holding Plate	£0.53	1
4 CTSPC	Protective Cover 150mm	£0.98	1
5 CSFL4UCL	Copper Link for Fuse Terminal	£49.63	100
6 CA603	Mounting Bracket 40° from Horizontal	£53.67	100
7 CA509/G1	Group Marker	£33.74	100
8 GMH7	Group Marker Holder	£79.79	100

Slotted Top Hat Din Rail 35 x 7.5mm



Part Number	Description	Price	Per
STBDR0.5M	35mm Top Hat 0.5 metre	£1.17	Length
STBDR1M	35mm Top Hat 1 metre	£2.14	Length
STBDR2M	35mm Top Hat 2 metre (Pack of 10)	£43.67	Pack

Slotted Top Hat Din Rail 35 x 15mm



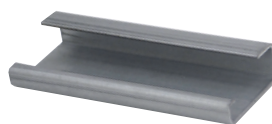
Part Number	Description	Price	Per
STBDR2M15S	35mm Top Hat 2 Metre (Pack of 10)	£83.95	Pack

Plain Top Hat Din Rail 35 x 7.5mm

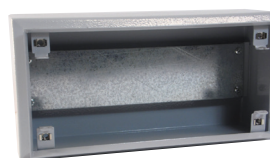


Part Number	Description	Price	Per
STBDR0.5MP	Plain 35mm Top Hat 0.5 metre	£1.17	Length
STBDR1MP	Plain 35mm Top Hat 1 metre	£2.08	Length
STBDR2MP	Plain 35mm Top Hat Din Rail (Pack of 10)	£43.67	Pack

Plain G Din Rail 32 x 15mm

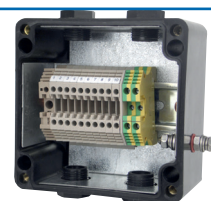


Part Number	Description	Price	Per
STBGDR2MP	Plain 32mm G Din Rail 2 Metre (Pack of 10)	£83.95	Pack



See page 43 for our steel terminal boxes

See page 53 for our ATEX hazardous area enclosures



See page 52 for our junction boxes (Available with and without din rail)

See page 87 for our MNX polycarbonate and metal clad contactor enclosures



Sourcing a fuse? - Follow these helpful tips. There are 1000s of different fuses from many manufacturers worldwide. When trying to source a fuse the following information will be very useful.

- Manufacturer
- Part Number
- Dimensions (Length of fuse body, diameter, overall length, width)
- Current rating in Amps

If you have obtained the above information, there is no need to proceed any further, however customers do not often have the above information so you will need to ask:

- Voltage (AC or DC)?
- Characteristic (eg: gL,aM,gR)?
- Are approvals required (eg: UL, IEC)?
- Fixing centres (how far apart - if relevant)?
- How is the fuse mounted (if relevant)?
- What is the fuse protecting?
- Does the fuse have an indicator?
- Does the fuse have a striker to operate a microswitch?

Understanding General Fuse Terminology

Miniature Fuses:

- FF - Ultra rapid
- F or QA or QB - Fast blow
- M or MD - Medium blow
- T or SB - Slow Blow / Time delay / Anti surge
- TT - Ultra slow

Bottle Fuses:

- DIAZED 500V Bottle fuses DI (E16), DII (E27), DIII (E33)
- NEOZED 380V Bottle fuses D01 (E14), D02 (E18)
- SILAZED Ultra Rapid Bottle fuses DII (E27), DIII (E33)

Industrial Fuses:

- aR or gR or uR - Ultra rapid
- gL/gG - General line
- aM - Motor rated
- gF/gTF - Transformer / Cable protection
- gB - Mining fuses

BS88 Industrial Fuse Comparison Chart

BS88 Ref.	Rating (Amps)	Europa Order Code	GE Power (GEC)	Lawson	Cooper Bussmann	MEM	BRUSH
F1	2-32	50-086-01	NS	NS	NSD	SN2	FO6
-	2-20	SS	SS	SS	SSN	SS	DO4
A1	2-32	50-085-01	NIT	NIT	NITD	SA2	F21
A2	2-32	50-001-01	TIA	TIA	AAO	SB3	HO7
A3	32-63	50-002-01	TIS	TIS	BAO	SB4	KO7
-	2-63	50-006-01	TB	TB	BC	SE4	KO8
B1	2.63	50-007-01	TBC	TBC	AD/BD	SF3	KO9
B1	80-100	50-008-01	TC	TC	CD	SF5	LO9
B2	125-200	50-009-01	TF	TF	DD	SF6	MO9
A4	63-100	50-003-01	TCP	TCP	CEO	SD5	L14
-	125-200	50-004-01	TFP	TFP	DEO	SD6	M14
B3	250-315	50-010-01	TKF	TKF	ED	SF7	NO9
B4	355-400	50-110-01	TMF	TMF	ED	SF8	PO9
C1	250-315	50-011-01	TKM	TKM	EFS	SG7	N11
C1	355-400	50-039-01	TM	TM	EF	SH8	P11
C2	450-630	50-040-01	TTM	TTM	FF	SH9	R11
C3	560-800	50-041-01	TLM	TLM	GF	SH10	S11
-	450-630	-	TT	TT	FG	SY9	R12
-	670-800	-	TLT	TLT	GG	SY10	S12

BS88 J Type Fuse Cross Reference Chart

Lawson	GE Power (GE)	Brush	Bussmann	MEM
JHU	96TY	MJ29	JHDS	JW6 / JWS6
JPU	95TY / 95TJ / 171TN	MJ27 / MJ30 / PJ30	JPDS / JOPCS / J1PCS / J2PCS	JX6 / JX7 / JX8 / JXS6 / JXS7 / JXS8
JSU	385TJ / 386TN / 387TW	MJ31 / PJ31 / SJ31	JSDS / JOSCS / J1SCS / J2SCS / J3SCS	JY7 / JY8 / JY10 / JYS7 / JYS8 / JYS10

BS Fuses Industrial BS88 Fuses

Get better pricing with fuses on this page by taking full advantage of our **100+ mixed fuse offer**

TIS BAO SB4 Box Qty 10



Manufactured by Mersen
Rated at 550V AC 80kA
Fixing centres: 73mm / Diameter: 18.5mm (Size A3C)
ASTA 20 Certified

Part Number	Description	Price	Per
50-002-01/35A	35A	£7.31	1
50-002-01/40A	40A	£7.31	1
50-002-01/50A	50A	£7.31	1
50-002-01/63A	63A	£7.31	1

NB: Also available in a motor rated version

NIT NITD SA2 Box Qty 10



Manufactured by Mersen
Rated at 550V AC 80kA
Fixing centres: 44.5mm / Diameter (Size A1)
ASTA 20 Certified

Part Number	Description	Price	Per
50-085-01/2A	2A	£2.86	1
50-085-01/4A	4A	£2.86	1
50-085-01/6A	6A	£2.86	1
50-085-01/10A	10A	£2.86	1
50-085-01/16A	16A	£3.23	1
50-085-01/20A	20A	£3.23	1
50-085-01/25A	25A	£3.23	1
50-085-01/32A	32A	£3.23	1

NB: Also available in a motor rated version

NS NSD SN2 Box Qty 10



Manufactured by Mersen
Rated at 415V AC 80kA
Overall length: 61mm / Diameter: 14mm (Size F1)

Part Number	Description	Price	Per
50-086-01/2A	2A	£2.86	1
50-086-01/4A	4A	£2.86	1
50-086-01/6A	6A	£2.86	1
50-086-01/10A	10A	£2.86	1
50-086-01/16A	16A	£2.86	1
50-086-01/20A	20A	£3.23	1
50-086-01/25A	25A	£3.23	1
50-086-01/32A	32A	£3.66	1

NB: Also available in a motor rated version

TIA AAO SB3 Box Qty 10



Manufactured by Mersen
Rated at 550V AC 80kA
Fixing centres: 73mm / Diameter: 16mm (Size A2C)
ASTA 20 Certified

Part Number	Description	Price	Per
50-001-01/2A	2A	£4.61	1
50-001-01/4A	4A	£4.61	1
50-001-01/6A	6A	£4.61	1
50-001-01/10A	10A	£4.61	1
50-001-01/16A	16A	£4.61	1
50-001-01/20A	20A	£4.61	1
50-001-01/25A	25A	£4.61	1
50-001-01/32A	32A	£4.61	1

NB: Also available in a motor rated version

100+ Mixed Fuse Offer Example

Part Number	Description	Quantity
50-085-01/16A	16A NIT	20
50-001-01/32A	32A TIA	30
50-002-01/63A	63A TIS	10
50-086-01/6A	6A NS	30
50-086-01/16A	16A NS	10

100+ Mixed = Better prices!

TIS BAO OS OSD SB4

Box Qty 10



Manufactured by Lawson

Fixing centres: 73mm / Diameter 26mm 415V 80kA

Part Number	Description	Price	Per
TIS80A	80A	£13.98	1
TIS100A	100A	£14.42	1
TIS125A	125A	£18.68	1

TCP CEO SD5

Box Qty 10



Manufactured by Mersen

Rated at 550V AC 80kA

Fixing centres: 94mm / Diameter: 30mm (Size A4)

ASTA 20 Certified

Part Number	Description	Price	Per
50-003-01/63A	63A	£13.10	1
50-003-01/80A	80A	£13.76	1
50-003-01/100A	100A	£13.76	1

NB: Also available in a motor rated version**Please note:** A Lawson range is also available from 6A

TFP DEO SD6

Box Qty 3



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 94mm / Diameter: 38mm

ASTA 20 Certified

Part Number	Description	Price	Per
50-004-01/125A	125A	£23.85	1
50-004-01/160A	160A	£24.91	1
50-004-01/200A	200A	£25.44	1

NB: Also available in a motor rated version**Please note:** we also offer the Lawson CTFP compact range with 30mm diameter

SS SSD

Box Qty 10



Manufactured by Lawson

Rated at 240V 20kA

12.7 x 51mm

Part Number	Description	Price	Per
SS2	2A	£2.96	1
SS4	4A	£2.96	1
SS6	6A	£2.96	1
SS10	10A	£2.96	1
SS16	16A	£2.96	1
SS20	20A	£3.17	1
SS25	25A	£3.17	1
SS32	32A	£3.17	1

MES ES ESD SP

Box Qty 10



Manufactured by Lawson

Rated at 415V 80kA

69 x 17.5mm

Part Number	Description	Price	Per
MES10	10A	£6.44	1
MES16	16A	£6.44	1
MES20	20A	£6.77	1
MES32	32A	£6.77	1
MES40	40A	£7.54	1
MES50	50A	£8.19	1
MES63	63A	£8.73	1

TB AC SE4

Box Qty 10



Manufactured by Lawson

Rated at 415V 80kA / Fixing centres: 97mm / Diameter: 22mm

ASTA 20 Certified

Part Number	Description	Price	Per
TB20	20A	£9.51	1
TB32	32A	£9.51	1
TB40	40A	£9.61	1
TB50	50A	£9.61	1
TB63	63A	£9.61	1

NB: Also available in a motor rated version

TBC AD SF4

Box Qty 1



Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing centres: 111mm / Diameter: 22mm (Size B1)

Part Number	Description	Price	Per
TBC16	16A	£9.51	1
TBC20	20A	£9.51	1
TBC25	25A	£9.51	1
50-007-01/32A	32A	£9.51	1
50-007-01/40A	40A	£9.61	1
50-007-01/50A	50A	£9.61	1
50-007-01/63A	63A	£9.61	1

NB: Also available in a motor rated version

TC CD SF5

Box Qty 1



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 111mm / Diameter: 28mm (Size B1)

ASTA 20 Certified

Part Number	Description	Price	Per
50-008-01/80A	80A	£14.31	1
50-008-01/100A	100A	£14.31	1

NB: Also available in a motor rated version

TF DD SF6

Box Qty 3



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 111mm / Diameter: 40mm (Size B2)

ASTA 20 Certified

Part Number	Description	Price	Per
50-009-01/125A	125A	£22.79	1
50-009-01/160A	160A	£23.32	1
50-009-01/200A	200A	£23.85	1

NB: Also available in a motor rated version

TKF ED SF7

Box Qty 3



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 111mm / Diameter: 41mm (Size B3)

ASTA 20 Certified

Part Number	Description	Price	Per
50-010-01/250A	250A	£33.39	1
50-010-01/315A	315A	£37.63	1

NB: Also available in a motor rated version

TKM SG7

Box Qty 3



Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing centres: 133mm / Diameter: 41mm (Size C1)

ASTA 20 Certified

Part Number	Description	Price	Per
TKM200	200A	£31.45	1
50-011-01/250A	250A	£34.45	1
50-011-01/315A	315A	£36.57	1

TMF ED SF8

Box Qty 3



Manufactured by Mersen

Rated at 415V 80kA

Fixing centres: 111mm / Diameter: 51mm (Size B4)

ASTA 20 Certified

Part Number	Description	Price	Per
50-110-01/355A	355A	£49.93	1
50-110-01/400A	400A	£51.94	1

TM EF SH8
Box Qty 3


Manufactured by Mersen

Rated at 415V 80kA

Fixing centres: 133mm Inner Holes / 184mm Outer Holes

Diameter: 51mm (Size C1)

ASTA 20 Certified

Part Number	Description	Price	Per
50-039-01/355A	355A	£45.69	1
50-039-01/400A	400A	£47.70	1

TTM FF SH9
Box Qty 1


Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 133mm inner holes / 184mm outer holes

Diameter: 61mm (Size C2)

ASTA 20 Certified

Part Number	Description	Price	Per
50-040-01/500A	500A	£71.55	1
50-040-01/560A	560A	£76.11	1
50-040-01/630A	630A	£84.16	1

TLM GF SH10
Box Qty 1


Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 133mm inner holes / 184mm outer holes

Diameter: 82mm (Size C3)

ASTA 20 Certified

Part Number	Description	Price	Per
50-041-01/710A	710A	£157.22	1
50-041-01/800A	800A	£164.65	1

JPU JP JCS MJ30
Box Qty 1


Manufactured by Mersen

Fixing centres: 82mm 415V

Part Number	Description	Price	Per
JPU63	63A	£26.75	1
JPU80	80A	£26.75	1
JPU100	100A	£26.75	1
JPU125	125A	£26.75	1
JPU160	160A	£26.75	1
JPU200	200A	£31.45	1
JPU250	250A	£31.45	1
JPU315	315A	£31.45	1
JPU355	355A	£36.25	1
JPU400	400A	£37.34	1

NB: The JHU range with 72mm fixing is also available on request

JSU JS JCS MJ31
Box Qty 1


Manufactured by Mersen

Fixing centres: 92mm 415V

Part Number	Description	Price	Per
JSU20	20A	£30.69	1
JSU32	32A	£30.69	1
JSU40	40A	£30.69	1
JSU50	50A	£30.69	1
JSU63	63A	£30.69	1
JSU80	80A	£30.69	1
JSU100	100A	£30.69	1
JSU125	125A	£30.69	1
JSU160	160A	£30.69	1
JSU200	200A	£30.69	1
JSU250	250A	£33.96	1
JSU315	315A	£33.96	1
JSU355	355A	£36.91	1
JSU400	400A	£38.00	1
JSU500	500A	£55.04	1
JSU630	630A	£80.86	1

NB: See Page 122 for a cross reference / selection chart for J type fuses

Smart Solutions, Switched On Service



LST STD LS Box Qty 10



Manufactured by Lawson
Fixing centres: 38.5mm / 48 x 12.7mm 240V

Part Number	Description	Price	Per
LST2	2A	£2.73	1
LST4	4A	£2.73	1
LST6	6A	£2.84	1
LST10	10A	£2.73	1
LST16	16A	£2.73	1
LST20	20A	£2.96	1
LST25	25A	£2.96	1
LST32	32A	£2.96	1

MD SMD Box Qty 10



Manufactured by Lawson
Rated at 415V 80kA / 29 x 12.7mm
ASTA 20 Certified

Part Number	Description	Price	Per
MD2	2A	£3.99	1
MD4	4A	£3.99	1
MD6	6A	£3.99	1
MD8	8A	£3.99	1
MD10	10A	£3.99	1
MD16	16A	£3.99	1
MD20	20A	£3.99	1
MD25	25A	£3.99	1
MD32	32A	£3.99	1

Motor Rated BS88 Fuses

NIT NITD SA2 aM Box Qty 10



Manufactured by Mersen / Lawson
Rated at 550V 80kA
Fixing centres: 44.5mm / Diameter: 14mm (16mm 32M40-M63A)

Part Number	Description	Price	Per
NIT20M25	20M25A	£3.82	1
NIT20M32	20M32A	£3.82	1
NIT32M40	32M40A	£7.95	1
NIT32M50	32M50A	£8.48	1
NIT32M63	32M63A	£8.48	1

TIA AAO SB2 aM Box Qty 10



Manufactured by Mersen
Rated at 550V 80kA
Fixing centres: 73mm / Diameter: 22mm

Part Number	Description	Price	Per
50-001-16/40A	32M40A	£6.88	1
50-001-16/50A	32M50A	£6.88	1
50-001-16/63A	32M63A	£7.32	1

NB: Other values available on request

TIS BAO SB4 aM Box Qty 10



Manufactured by Mersen
Rated at 550V 80kA
Fixing centres: 73mm / Diameter: 26mm

Part Number	Description	Price	Per
50-002-16/80A	63M80A	£12.93	1
50-002-16/100A	63M100A	£12.51	1

TIS OS OSD aM Box Qty 10



Manufactured by Lawson
Rated at 415V AC 80kA
Fixing centres: 73mm / Diameter: 24mm

Part Number	Description	Price	Per
TIS100M125	100M125A	£20.74	1

TCP CEO SD5 aM

Box Qty 10



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 94mm / Diameter: 30mm

Part Number	Description	Price	Per
50-003-16/125A	100M125A	£20.88	1
50-003-16/160A	100M160A	£21.52	1
50-003-16/200A	100M200A	£23.21	1

NS NSD SN2 aM

Box Qty 10



Manufactured by Mersen / Lawson

Rated at 415V AC 80kA

Overall length: 62mm / Diameter 14.3mm (17.5mm 32M40-M63)

Part Number	Description	Price	Per
NS20M25	20M25A	£3.92	1
NS20M32	20M32A	£3.92	1
NS32M40	32M40A	£7.95	1
NS32M50	32M50A	£8.48	1
NS32M63	32M63A	£8.48	1

NB: Other values available on request

From the NS32M40 upwards the MES holder is required as the fuses will not fit the NS holder.

TC CD SF5 aM

Box Qty 10



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 111mm / Diameter: 28mm

Part Number	Description	Price	Per
50-008-16/125A	100M125A	£20.67	1
50-008-16/160A	100M160A	£21.31	1

TF DD SF aM

Box Qty 1



Manufactured by Mersen

Rated at 550V 80kA

Fixing centres: 111mm / Diameter: 41mm

Part Number	Description	Price	Per
50-009-16/250A	200M250A	£37.57	1
50-009-16/315A	200M315A	£37.90	1

TKF ED SF7 aM

Box Qty 1



Manufactured by Mersen

Rated at 550V 80kA / Fixing centres: 111mm / Diameter: 50mm

Part Number	Description	Price	Per
50-010-16/400A	315M400A	£52.36	1

Semi Conductor Fuses to BS88

LCT GSA

Box Qty 10



Please Note:

GEC Part Numbers are given for reference only - Please contact our technical department for specific cross references

Manufactured by Siba

Fixing Centres: 38.1mm

Diameter: 8mm / Overall length 47.6mm / 250V

Part Number	Description	Price	Per
50-076-06/5A	5A	£6.15	1
50-076-06/10A	10A	£6.15	1
50-076-06/16A	16A	£6.15	1
50-076-06/20A	20A	£6.15	1

NB: Indicator kit available on request

LET GSA GSD

Box Qty 10



Manufactured by Siba

Fixing centres: 41.8mm

Diameter: 17.5mm / Overall Length: 58mm / 250V

Part Number	Description	Price	Per
50-053-06/16A	16A	£9.01	1
50-053-06/20A	20A	£9.01	1
50-053-06/25A	25A	£9.01	1
50-053-06/32A	32A	£9.01	1
50-053-06/35A	35A	£9.01	1
50-053-06/50A	50A	£9.01	1
50-053-06/63A	63A	£9.01	1
50-053-06/75A	75A	£9.01	1
50-053-06/80A	80A	£9.01	1
50-053-06/100A	100A	£9.49	1
50-053-06/125A	125A	£10.39	1
50-053-06/160A	160A	£10.39	1
50-053-06/180A	180A	£10.39	1

NB: Indicator kit available on request

CT GSB

Box Qty 10



Manufactured by Siba

Fixing centres: 64mm

Diameter: 8mm / Overall Length: 73mm / 690V

Part Number	Description	Price	Per
50-077-06/10A	10A	£7.16	1
50-077-06/16A	16A	£7.16	1
50-077-06/20A	20A	£7.16	1

NB: Indicator kit available on request

ET FE GSGB

Box Qty 10



Manufactured by Siba

Fixing centres: 63mm

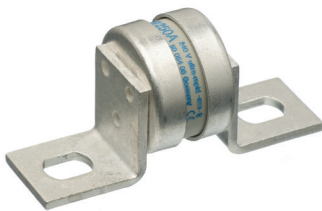
Diameter: 17.5mm / Overall Length: 77mm / 690V

Part Number	Description	Price	Per
50-073-06/16A	16A	£8.43	1
50-073-06/20A	20A	£8.43	1
50-073-06/25A	25A	£8.43	1
50-073-06/32A	32A	£8.43	1
50-073-06/35A	35A	£8.85	1
50-073-06/40A	40A	£10.55	1
50-073-06/45A	45A	£10.55	1
50-073-06/50A	50A	£10.55	1
50-073-06/56A	56A	£10.87	1
50-073-06/63A	63A	£10.87	1
50-073-06/75A	75A	£10.87	1
50-073-06/80A	80A	£10.87	1
50-073-06/100A	100A	£11.34	1

NB: Indicator kit available on request

LMT GSA GSD

Box Qty 2



Manufactured by Siba

Fixing centres: 60.3mm

Diameter: 34.6mm / Overall Length: 85mm / 250V

Part Number	Description	Price	Per
50-054-06/200A	200A	£27.88	1
50-054-06/250A	250A	£27.88	1
50-054-06/300A	300A	£31.38	1
50-054-06/350A	350A	£32.22	1

NB: Indicator kit available on request

EET

Box Qty 6



Manufactured by Siba
Fixing centres 70mm / 690V

Part Number	Description	Price	Per
20-559-20/110A	110A	£21.32	1
20-559-20/125A	125A	£21.32	1
20-559-20/160A	160A	£22.38	1
20-559-20/250A	250A	£25.15	1
20-559-20/315A	315A	£26.49	1

MT GSGB

Box Qty 3



Manufactured by Siba
Fixing centres: 81.7mm
Diameter: 34.6mm / Overall length: 107mm / 690V

Part Number	Description	Price	Per
50-074-06/100A	100A	£22.37	1
50-074-06/160A	160A	£23.11	1
50-074-06/180A	180A	£24.38	1
50-074-06/200A	200A	£24.38	1
50-074-06/250A	250A	£30.53	1

NB: Indicator kit available on request

MMT GSGB

Box Qty 1



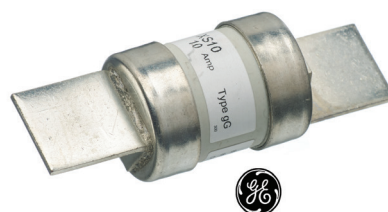
Manufactured by Siba
Twin bodied fuse: Fixing centres: 81.7mm / 2 x 34.6 x 107mm / 690V

Part Number	Description	Price	Per
50-075-06/200A	200A	£50.56	1
50-075-06/225A	225A	£50.56	1
50-075-06/250A	250A	£50.56	1
50-075-06/300A	300A	£50.56	1
50-075-06/350A	350A	£50.56	1
50-075-06/400A	400A	£54.59	1
50-075-06/450A	450A	£54.59	1
50-075-06/500A	500A	£58.57	1

Safe Clip

XS Safe Clip

Box Qty 10



GE Power Controls

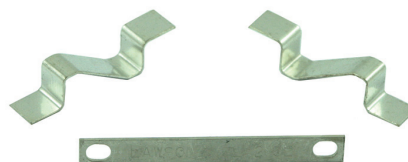
Manufactured by GE Power Controls
80 x 26.4mm

Part Number	Description	Price	Per
XS10	10A	£18.23	1
XS20	20A	£21.93	1
XS32	32A	£21.93	1
XS40	40A	£21.93	1
XS50	50A	£21.93	1
XS63	63A	£21.93	1
XS80	80A	£23.67	1
XS100	100A	£25.95	1
XS125	125A	£31.64	1

Solid / Neutral Links For BS88 Fuses

BS88 Compact Dimension Type

Box Qty 10



Manufactured by Lawson

Part Number	Description	Price	Per
SLE120	Solid Link E1 (SS fuse) Rated 20A	£9.33	10
SLF132	Solid Link F1 (NS fuse) Rated 32A	£9.33	10
SLF263	Solid Link F2 (MES fuse) Rated 63A	£19.72	10

Next day and special deliveries available

Low minimum order of £25 nett

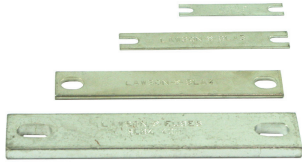
5pm cut off for standard same day dispatch

Direct to site delivery available

Call our sales team for
further details:
01582 692440



BS88 Bolted Type



Manufactured by Lawson

* Box Qty 10: SLA120 / 232 / 363

* Box Qty 5: SLA4100 / SLB2200

* Box Qty 3: SLB3315 / 4400

Part Number	Description	Price	Per
SLA120	Solid Link A1 (NIT fuse) Rated 20A	£1.75	1
SLA232	Solid Link A2 (TIA fuse) Rated 32A	£1.87	1
SLA363	Solid Link A3 (TIS fuse) Rated 63A	£2.30	1
SLA4100	Solid Link A4 (TCP fuse) Rated 100A	£2.51	1
SLA4200	Solid Link A4 (TFP fuse) Rated 200A	£3.17	1
SLB2200	Solid Link B2 (TF fuse) Rated 200A	£3.28	1
SLB3315	Solid Link B3 (TKF fuse) Rated 315A	£3.39	1
SLB4400	Solid Link B4 (TMF fuse) Rated 400A	£7.32	1

Fuse Holders For BS88 Fuses

Colour: Black - White is available on request
(Substitute BK with WH on part number. A surcharge of 20% applies.)

LBI20 for NIT Fuses (Bolt In)

Box Qty 10



Manufactured by Lawson

Bolt in 660/690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI20FC/BCBK	Front / Back Connected	£16.43	1
LBI20FC/FCBK	Front Connected	£15.56	1

NB: Colour: Black - White is available on request

LBI32 for TIA / GTIA Fuses (Bolt In)

Box Qty 10



Manufactured by Lawson

Bolt in 660/690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI32BC/BCBK	Back Connected	£23.74	1
LBI32FC/BCBK	Front / Back Connected	£21.65	1
LBI32FC/FCBK	Front Connected	£19.89	1

NB: Colour: Black - White is available on request

LBI63 for TIS Fuses (Bolt In)

Box Qty 10



Manufactured by Lawson

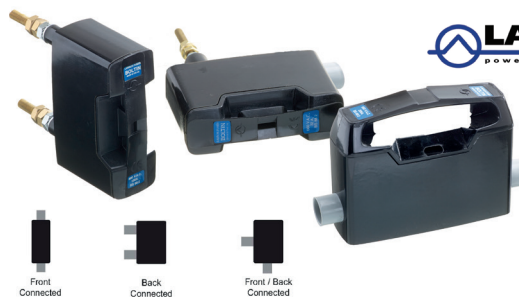
Bolt in 660/690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI63FC/BCBK	Front / Back Connected	£25.65	1
LBI63FC/FCBK	Front Connected	£23.82	1

NB: Colour: Black - White is available on request

LBI100 for TCP Fuses (Bolt In)

Box Qty 5



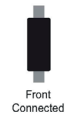
Manufactured by Lawson

Bolt in 660/690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI100BC/BCBK	Back Connected	£51.57	1
LBI100FC/BCBK	Front / Back Connected	£46.85	1
LBI100FC/FCBK	Front Connected	£42.24	1

NB: Colour: Black - White is available on request

LBI200 for TF Fuses (Bolt In) Box Qty 2



Manufactured by Lawson
Bolt in 660/690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI200FC/FCBK	Front Connected	£125.72	1

NB: Colour: Black - White is available on request

LCF63 for MES Fuses (Clip Fit) Box Qty 10



Manufactured by Lawson
Clip fit 240/415V / ASTA Certified

Part Number	Description	Price	Per
LCF63FC/BCBK	Front / Back Connected	£21.26	1
LCF63FC/FCBK	Front Connected	£16.06	1

NB: Colour: Black - White is available on request

LCF20 for SS Fuses (Clip Fit) Box Qty 10



Manufactured by Lawson
Clipfit 240/415V / ASTA Certified

Part Number	Description	Price	Per
LCF20FC/FCBK	Front Connected	£8.65	1

NB: Colour: Black - White is available on request

Plug Top Fuses
Plug Top (BS1362) TDC180 Box Qty 10



Part Number	Description	Price	Per
50-030-04/1A	1A	£64.30	100
50-030-04/2A	2A	£64.30	100
50-030-04/3A	3A	£32.60	100
50-030-04/5A	5A	£32.60	100
50-030-04/7A	7A	£64.30	100
50-030-04/10A	10A	£32.60	100
50-030-04/13A	13A	£32.60	100

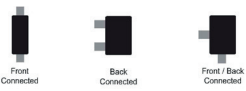
For Plugs & Outlet Adaptors to BS646 (TDC17) Box Qty 10



Manufactured by Lawson
Conforms to BS646 / 5 x 19mm / 250V AC
Breaking capacity 1000A at 0.6 lagging power factor - 250V

Part Number	Description	Price	Per
BL1	1A	£0.86	1
BL2	2A	£0.86	1
BL3	3A	£0.86	1
BL5	5A	£0.86	1

LCF32 for NS Fuses (Clip Fit) Box Qty 10



Manufactured by Lawson
Clipfit 240/415V / ASTA Certified

Part Number	Description	Price	Per
LCF32BC/BCBK	Back Connected	£13.20	1
LCF32FC/BCBK	Front / Back Connected	£11.06	1
LCF32FC/FCBK	Front Connected	£8.35	1

NB: Colour: Black - White is available on request

Consumer Unit Fuses

LA D55 C55 (BS1361 / BS88-3) **Box Qty 10**



Manufactured by Lawson
6.35 x 23mm 240V

Part Number	Description	Price	Per
LA3	3A	£1.25	1
LA5	5A	£1.25	1

LC D15 C15 (BS1361) **Box Qty 10**



Manufactured by Lawson
10.32 x 26mm 240V

Part Number	Description	Price	Per
LC5	5A Black	£2.39	1
LC10	10A Black	£2.39	1
LC15	15A Blue	£2.39	1
LC20	20A Yellow	£2.39	1

LD C30 (BS1361) **Box Qty 10**



Manufactured by Lawson
12.7 x 29mm 240V

Part Number	Description	Price	Per
LD6	6A Black	£2.73	1
LD10	10A Black	£2.73	1
LD16	16A Black	£2.73	1
LD20	20A Black	£2.73	1
LD25	25A Black	£2.73	1
LD30	30A Red	£2.73	1

LK C45 LCS (BS1361)

Box Qty 10



Manufactured by Lawson
16.67 x 35mm 240V

Part Number	Description	Price	Per
LK35	35A Black	£5.46	1
LK45	45A Green	£5.46	1

House Service Cut Out Fuses

ME RHF KR85

Box Qty 10



Manufactured by Mersen / Lawson
22.23 x 57mm 415V

Part Number	Description	Price	Per
ME5	5A	£7.21	1
ME10	10A	£7.21	1
ME15	15A	£7.21	1
ME20	20A	£7.21	1
ME30	30A	£7.21	1
ME40	40A	£7.21	1
ME45	45A	£7.21	1
ME50	50A	£7.21	1
ME60	60A	£7.34	1
ME80	80A	£7.21	1
ME100	100A	£7.21	1

MF RHLF LR85

Box Qty 6



Manufactured by Mersen
30.16 x 57mm 415V

Part Number	Description	Price	Per
MF50	50A	£9.06	1
MF60	60A	£9.06	1
MF80	80A	£9.06	1
MF100	100A	£9.06	1

**Miniature Fuses
Fuse Kits**



Handy fuse kit providing convenient access to a range of fuses for maintenance, repairs and field service applications.
Available in **5 x 20mm & Plug Top, 5 x 20mm Ceramic, 5 x 20mm Glass, 6 x 32mm Glass** and **6 x 32mm Ceramic** options.

5 x 20mm & Plug Top Fuse Kits



Fuse kit containing 180 fuses in a segmented flip-lid box
Fuse replacement references on the inside lid for easy re-ordering
30 x fuses for standard 13A plugs containing: 3A, 5A & 13A
60 x fast acting glass 5 x 20mm fuses containing: 500mA, 1A, 2A, 2.5A, 3.15A, & 5A
90 x slow acting glass 5 x 20mm fuses containing: 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 5A, 6.3A & 10A

Part Number	Description	Price	Per
EFK180/1	180pcs Mixed 5 x 20mm & Plug Top Fuses	£34.45	1

5 x 20mm Ceramic Fuse Kits



Fuse kit containing 180 fuses in a segmented flip-lid box
Fuse replacement references on the inside lid for easy re-ordering
90 x fast acting ceramic 5 x 20mm fuses containing: 250mA, 500mA, 1A, 1.6A, 2A, 3.15A, 5A, 6.3A, & 10A
90 x slow acting ceramic 5 x 20mm fuses containing: 500mA, 1A, 2A, 3.15A, 4A, 5A, 6.3A, 10A & 16A

Part Number	Description	Price	Per
EFK180/2	180pcs Mixed 5 x 20mm Ceramic Fuses	£39.22	1

5 x 20mm Glass Fuse Kits



Fuse kit containing 180 fuses in a segmented flip-lid box
Fuse replacement references on the inside lid for easy re-ordering
90 x fast acting glass 5 x 20mm fuses containing: 250mA, 500mA, 1A, 1.6A, 2A, 3.15A, 5A, 6.3A, & 10A
90 x slow acting glass 5 x 20mm fuses containing: 500mA, 1A, 1.6A, 2A, 3.15A, 5A, 6.3A, 10A & 16A

Part Number	Description	Price	Per
EFK180/3	180pcs Mixed 5 x 20mm Glass Fuses	£36.84	1

6 x 32mm Glass Fuse Kits



Fuse kit containing 180 fuses in a segmented flip-lid box
Fuse replacement references on the inside lid for easy re-ordering
90 x fast acting glass 6 x 32mm fuses containing: 500mA, 1A, 1.6A, 2.5A, 3A, 5A, 6.3A, 10A & 16A
90 x slow acting glass 6 x 32mm fuses containing: 1A, 1.6A, 2A, 3.15A, 5A, 6.3A, 10A, 16A & 20A

Part Number	Description	Price	Per
EFK180/4	180pcs Mixed 6 x 32mm Glass Fuses	£41.87	1

6 x 32mm Ceramic Fuse Kits



Fuse kit containing 180 fuses in a segmented flip-lid box
Fuse replacement references on the inside lid for easy re-ordering
90 x fast acting ceramic 6 x 32mm fuses containing: 1A, 2A, 3A, 5A, 6.3A, 10A, 12.5A, 16A & 20A
90 x slow acting ceramic 6 x 32mm fuses containing: 630mA, 1A, 1.6A, 2A, 5A, 6.3A, 10A, 16A & 25A

Part Number	Description	Price	Per
EFK180/5	180pcs Mixed 6 x 30mm Ceramic Fuses	£78.18	1

5 x 20mm Miniature Fuses

5 x 20mm (F) Quick Blow Glass Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-001-34/0.05A	50mA	£23.33	100
70-001-34/0.063A	63mA	£23.33	100
70-001-34/0.08A	80mA	£23.33	100
70-001-34/0.125A	125mA	£23.33	100
70-001-34/0.16A	160mA	£23.33	100
70-001-34/0.1A	100mA	£23.33	100
70-001-34/0.25A	250mA	£13.57	100
70-001-34/0.2A	200mA	£13.57	100
70-001-34/0.315A	315mA	£13.57	100
70-001-34/0.4A	400mA	£13.57	100
70-001-34/0.5A	500mA	£13.57	100
70-001-34/0.63A	630mA	£13.57	100
70-001-34/0.8A	800mA	£13.57	100
70-001-34/1A	1A	£13.57	100
70-001-34/1.25A	1.25A	£13.57	100
70-001-34/1.6A	1.6A	£13.57	100
70-001-34/2A	2A	£13.57	100
70-001-34/2.5A	2.5A	£13.57	100
70-001-34/3A	3A	£13.57	100
70-001-34/3.15A	3.15A	£13.57	100
70-001-34/4A	4A	£13.57	100
70-001-34/5A	5A	£13.57	100
70-001-34/6.3A	6.3A	£13.57	100
70-001-34/7A	7A	£13.57	100
70-001-34/8A	8A	£13.57	100
70-001-34/10A	10A	£13.57	100

5 x 20mm (M) Medium Blow Glass Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-001-02/0.25A	250mA	£31.65	100
70-001-02/0.5A	500mA	£31.65	100
70-001-02/1A	1A	£31.65	100
70-004-02/1.6A	1.6A	£30.15	100
70-004-02/2A	2A	£30.15	100
70-004-02/2.5A	2.5A	£30.15	100
70-004-02/3.15A	3.15A	£30.15	100
70-004-02/4A	4A	£30.15	100
70-004-02/5A	5A	£30.15	100
70-004-02/6.3A	6.3A	£30.15	100
70-004-02/8A	8A	£30.15	100
70-004-02/10A	10A	£30.15	100

NB: Other values available on request

5 x 20mm (T) Slow Blow Glass Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-001-35/0.1A	100mA	£24.90	100
70-001-35/0.25A	250mA	£24.90	100
70-001-35/0.315A	315mA	£24.90	100
70-001-35/0.4A	400mA	£24.90	100
70-001-35/0.5A	500mA	£15.14	100
70-001-35/0.63A	630mA	£15.14	100
70-001-35/0.8A	800mA	£15.14	100
70-001-35/1A	1A	£15.14	100
70-001-35/1.25A	1.25A	£15.14	100
70-001-35/1.6A	1.6A	£15.14	100
70-001-35/2A	2A	£15.14	100
70-001-35/2.5A	2.5A	£15.14	100
70-001-35/3.15A	3.15A	£15.14	100
70-001-35/4A	4A	£15.14	100
70-001-35/5A	5A	£15.14	100
70-001-35/6.3A	6.3A	£15.14	100
70-001-35/8A	8A	£15.14	100
70-001-35/10A	10A	£15.14	100
70-001-35/12.5A	12.5A	£30.15	100
70-001-35/16A	16A	£45.28	100

NB: Other values available on request

5 x 20mm (F) Quick Blow Ceramic Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-007-33/0.25A	250mA	£33.20	100
70-007-33/0.315A	315mA	£33.20	100
70-007-33/0.5A	500mA	£23.40	100
70-007-33/0.63A	630mA	£23.40	100
70-007-33/0.8A	800mA	£23.40	100
70-007-33/1A	1A	£23.40	100
70-007-33/1.25A	1.25A	£23.40	100
70-007-33/1.6A	1.6A	£23.40	100
70-007-33/2.5A	2.5A	£23.40	100
70-007-33/2A	2A	£23.40	100
70-007-33/3.15A	3.15A	£23.40	100
70-007-33/4A	4A	£23.40	100
70-007-33/5A	5A	£23.40	100
70-007-33/6.3A	6.3A	£23.40	100
70-007-33/8A	8A	£23.40	100
70-007-33/10A	10A	£23.40	100
70-007-33/12.5A	12.5A	£23.40	100
70-007-33/16A	16A	£23.40	100

NB: Other values available on request

5 x 20mm (T) Slow Blow Ceramic Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-007-65/0.25A	250mA	£33.20	100
70-007-65/0.315A	315mA	£33.20	100
70-007-65/0.5A	500mA	£23.40	100
70-007-65/0.8A	800mA	£23.40	100
70-007-65/1A	1A	£23.40	100
70-007-65/1.25A	1.25A	£23.40	100
70-007-65/1.6A	1.6A	£23.40	100
70-007-65/2A	2A	£23.40	100
70-007-65/2.5A	2.5A	£23.40	100
70-007-65/3.15A	3.15A	£23.40	100
70-007-65/4A	4A	£23.40	100
70-007-65/5A	5A	£23.40	100
70-007-65/6.3A	6.3A	£23.40	100
70-007-65/8A	8A	£27.15	100
70-007-65/10A	10A	£27.15	100
70-007-65/12.5A	12.5A	£27.15	100
70-007-65/16A	16A	£27.15	100

NB: Other values available on request

5 x 20mm (FF) Ultra Rapid Ceramic Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-001-40/0.63A	0.63A	£108.92	100
70-001-40/1A	1A	£108.92	100
70-001-40/1.6A	1.6A	£108.92	100
70-001-40/2A	2A	£108.92	100
70-001-40/3.15A	3.15A	£108.92	100
70-001-40/5A	5A	£108.92	100
70-001-40/6.3A	6.3A	£108.92	100
70-001-40/8A	8A	£108.92	100
70-001-40/10A	10A	£108.92	100

NB: Other values available on request

5 x 25mm Miniature Fuses

5 x 25mm (F) Quick Blow Glass Box Qty 10



Manufactured by Siba
250V 1.6-10A Sand filled

Part Number	Description	Price	Per
70-002-34/1A	1A	£119.20	100
70-002-34/1.25A	1.25A	£119.20	100
70-002-34/1.6A	1.6A	£119.20	100
70-002-34/2A	2A	£119.20	100
70-002-34/3.15A	3.15A	£119.20	100
70-002-34/5A	5A	£119.20	100
70-002-34/6.3A	6.3A	£119.20	100
70-002-34/8A	8A	£119.20	100
70-002-34/10A	10A	£119.20	100

NB: Other values available on request

5 x 25mm (M) Medium Blow Glass Box Qty 10



Manufactured by Siba
250V 1.6-10A Sand filled

Part Number	Description	Price	Per
70-002-02/0.5A	500mA	£181.00	100
70-002-02/1A	1A	£181.00	100
70-005-02/1.6A	1.6A	£181.00	100
70-005-02/2A	2A	£181.00	100
70-005-02/3.15A	3.15A	£181.00	100
70-005-02/4A	4A	£181.00	100
70-005-02/5A	5A	£181.00	100
70-005-02/6.3A	6.3A	£181.00	100
70-005-02/8A	8A	£181.00	100
70-005-02/10A	10A	£181.00	100

NB: Other values available on request

5 x 25mm (F) Quick Blow Ceramic Box Qty 10



Manufactured by Siba
250V With indicator

Part Number	Description	Price	Per
70-010-04/1.6A	1.6A	£230.80	100
70-010-04/2A	2A	£230.80	100
70-010-04/3.15A	3.15A	£230.80	100
70-010-04/4A	4A	£230.80	100
70-010-04/5A	5A	£230.80	100
70-010-04/6.3A	6.3A	£230.80	100
70-010-04/8A	8A	£230.80	100
70-010-04/10A	10A	£230.80	100

5 x 25mm (M) Medium Blow Ceramic Box Qty 10



Manufactured by Siba
250V With indicator

Part Number	Description	Price	Per
70-010-05/0.25A	250mA	£368.80	100
70-010-05/0.5A	500mA	£368.80	100
70-010-05/1A	1A	£368.80	100
70-010-05/1.6A	1.6A	£236.80	100
70-010-05/2A	2A	£236.80	100
70-010-05/2.5A	2.5A	£236.80	100
70-010-05/3.15A	3.15A	£236.80	100
70-010-05/4A	4A	£236.80	100
70-010-05/5A	5A	£236.80	100
70-010-05/6.3A	6.3A	£236.80	100
70-010-05/10A	10A	£236.80	100
70-010-05/8A	8A	£236.80	100

5 x 30mm Miniature Fuses

5 x 30mm (F) Quick Blow Glass Box Qty 10



Manufactured by Siba
500V Sand filled

Part Number	Description	Price	Per
70-003-34/0.5A	500mA	£162.85	100
70-003-34/1A	1A	£162.85	100
70-003-34/1.6A	1.6A	£162.85	100
70-003-34/2A	2A	£162.85	100
70-003-34/3.15A	3.15A	£162.85	100
70-003-34/4A	4A	£162.85	100
70-003-34/5A	5A	£162.85	100
70-003-34/6.3A	6.3A	£162.85	100
70-003-34/10A	10A	£162.85	100
70-003-34/8A	8A	£162.85	100

NB: Other values available on request

5 x 30mm (M) Medium Blow Glass Box Qty 10



Manufactured by Siba
500V 1.6-10A Sand filled

Part Number	Description	Price	Per
70-003-02/0.5A	500mA	£162.85	100
70-003-02/1A	1A	£162.85	100
70-003-02/1.25A	1.25A	£162.85	100
70-006-02/1.6A	1.6A	£166.00	100
70-006-02/2A	2A	£166.00	100
70-006-02/2.5A	2.5A	£166.00	100
70-006-02/3.15A	3.15A	£166.00	100
70-006-02/4A	4A	£166.00	100
70-006-02/5A	5A	£166.00	100
70-006-02/6.3A	6.3A	£166.00	100
70-006-02/8A	8A	£166.00	100
70-006-02/10A	10A	£166.00	100

NB: Other values available on request

6 x 32mm Miniature Fuses

6 x 32mm (F) Quick Blow Glass

Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-059-60/0.1A	100mA	£144.40	100
70-059-60/0.25A	250mA	£110.30	100
70-059-60/0.315A	315mA	£29.40	100
70-059-60/0.5A	500mA	£25.65	100
70-059-60/0.63A	630mA	£25.65	100
70-059-60/0.8A	800mA	£25.65	100
70-059-60/1A	1A	£25.65	100
70-059-60/1.25A	1.25A	£25.65	100
70-059-60/1.6A	1.6A	£25.65	100
70-059-60/2A	2A	£25.65	100
70-059-60/2.5A	2.5A	£25.65	100
70-059-60/3.15A	3.15A	£25.65	100
70-059-60/4A	4A	£25.65	100
70-059-60/5A	5A	£25.65	100
70-059-60/6.3A	6.3A	£25.65	100
70-059-60/7A	7A	£25.65	100
70-059-60/8A	8A	£25.65	100
70-059-60/10A	10A	£25.65	100
70-059-60/12.5A	12.5A	£25.65	100
70-059-60/16A	16A	£25.65	100
70-059-60/20A	20A	£25.65	100

NB: Other values available on request

listed in
LUCKINSlive™

Having trouble finding the correct fuse?

Contact our technical department on **01582 692 444** or alternatively email them at technical@europacomponents.com for help and advice.

6 x 32mm (T) Slow Blow Glass

Box Qty 10



Manufactured by Siba
250V

Part Number	Description	Price	Per
70-059-61/0.25A	250mA	£27.15	100
70-059-61/0.5A	500mA	£27.15	100
70-059-61/0.63A	630mA	£27.15	100
70-059-61/0.8A	800mA	£27.15	100
70-059-61/1A	1A	£27.15	100
70-059-61/1.25A	1.25A	£27.15	100
70-059-61/1.6A	1.6A	£27.15	100
70-059-61/2A	2A	£27.15	100
70-059-61/2.5A	2.5A	£27.15	100
70-059-61/3.15A	3.15A	£27.15	100
70-059-61/4A	4A	£27.15	100
70-059-61/5A	5A	£27.15	100
70-059-61/6.3A	6.3A	£27.15	100
70-059-61/8A	8A	£27.15	100
70-059-61/10A	10A	£27.15	100
70-059-61/12.5A	12.5A	£27.15	100
70-059-61/16A	16A	£27.15	100
70-059-61/20A	20A	£27.15	100

NB: Other values available on request

6 x 32mm (F) Quick Blow Ceramic

Box Qty 10



Manufactured by Siba
500V 250mA -16A / 400V 20-25A

Part Number	Description	Price	Per
70-065-63/0.5A	500mA	£51.30	100
70-065-63/1A	1A	£51.30	100
70-065-63/1.25A	1.25A	£51.30	100
70-065-63/1.6A	1.6A	£51.30	100
70-065-63/2A	2A	£51.30	100
70-065-63/3A	3A	£51.30	100
70-065-63/4A	4A	£51.30	100
70-065-63/5A	5A	£51.30	100
70-065-63/6.3A	6.3A	£51.30	100
70-065-63/8A	8A	£51.30	100
70-065-63/10A	10A	£51.30	100
70-065-63/12.5A	12.5A	£51.30	100
70-065-63/16A	16A	£51.30	100
70-065-63/20A	20A	£67.90	100
70-065-63/25A	25A	£67.90	100

NB: Other values available on request

6 x 32mm (T) Slow Blow Ceramic Box Qty 10



Manufactured by Siba
500V 500mA-16A / 400V 20-25A / 250V 32A

Part Number	Description	Price	Per
70-065-65/0.5A	500mA	£55.80	100
70-065-65/1A	1A	£55.80	100
70-065-65/1.6A	1.6A	£55.80	100
70-065-65/2A	2A	£55.80	100
70-065-65/2.5A	2.5A	£55.80	100
70-065-65/3A	3A	£55.80	100
70-065-65/3.15A	3.15A	£55.80	100
70-065-65/5A	5A	£55.80	100
70-065-65/6.3A	6.3A	£55.80	100
70-065-65/8A	8A	£55.80	100
70-065-65/10A	10A	£55.80	100
70-065-65/12.5A	12.5A	£111.65	100
70-065-65/16A	16A	£111.65	100
70-065-65/20A	20A	£140.30	100
70-065-65/25A	25A	£147.90	100
70-065-65/32A	32A	£196.10	100

NB: Other values available on request

6 x 32mm (FF) Ultra Rapid Ceramic Box Qty 10



Manufactured by Siba
700V 250mA-2A / 600V 2.5-10A (500V from 12.5A)

Part Number	Description	Price	Per
70-125-40/0.5A	500mA	£248.90	100
70-125-40/1A	1A	£248.90	100
70-125-40/1.6A	1.6A	£248.90	100
70-125-40/2A	2A	£248.90	100
70-125-40/3.15A	3.15A	£248.90	100
70-125-40/5A	5A	£248.90	100
70-125-40/6.3A	6.3A	£248.90	100
70-125-40/8A	8A	£248.90	100
70-125-40/10A	10A	£248.90	100
70-125-40/12.5A	12.5A	£248.90	100
70-125-40/16A	16A	£248.90	100
70-125-40/20A	20A	£248.90	100

NB: Other values available on request

1000V Multi Meter Fuses

6 x 32mm uR 1000V For Multi Meters Box Qty 10



Manufactured by Siba
1000V AC / DC

Part Number	Description	Price	Per
70-172-40/0.315A	315mA	£4.70	1
70-172-40/0.4A	400mA	£4.70	1
70-172-40/0.5A	500mA	£4.70	1
70-172-40/0.8A	800mA	£4.70	1
70-172-40/1A	1A	£4.70	1
70-172-40/1.6A	1.6A	£4.70	1
70-172-40/2A	2A	£4.70	1

10 x 35mm uR 1000V For Multi Meters Box Qty 10



Manufactured by Siba
1000V AC / DC
Equivalent to DMM 0.4

Part Number	Description	Price	Per
50-210-06/0.44A	440mA	£6.61	1

10 x 38mm uR 1000V For Multi Meter Box Qty 10



Manufactured by Siba
1000V AC

Part Number	Description	Price	Per
50-199-06/0.44A	440mA	£11.30	1
50-199-06/11A	11A	£11.30	1

Cylindrical Fuses & Accessories

8 x 31mm Cylindrical Fuses

8 x 31mm gL (General Line)

Box Qty 10




Manufactured by Mersen

Rated at 400V 20kA

Part Number	Description	Price	Per
15011	1A	£0.80	1
15013	2A	£0.53	1
15019	4A	£0.53	1
15023	6A	£0.53	1
15031	10A	£0.53	1
15035	16A	£0.53	1
15037	20A	£0.53	1
15039	25A	£0.75	1

NB: Other values available on request

8 x 31mm aM (Motor Rated)

Box Qty 10




Manufactured by Mersen

Rated at 400V 20kA

Part Number	Description	Price	Per
15511	1A	£0.88	1
15513	2A	£0.75	1
15519	4A	£0.75	1
15523	6A	£0.75	1
15531	10A	£0.75	1

NB: Other values available on request

8 x 31mm Fuse Holders (Din Rail Mounting)




Manufactured by Mersen

Maximum load - 25A gL/gG / Din rail mounting

Part Number	Description	Price	Per
24000	CMS 8 / 10 Neutral	£4.91	1
24002	MS 1P	£4.19	1
24014	MS 3P	£15.88	1

10 x 38mm Cylindrical Fuses

10 x 38mm uR gPV 600V DC

Box Qty 10




Manufactured by Siba

Fuse-links for photovoltaic applications

gPV (IEC) / gR (UL) / IEC 60 296-6 / UL 248-13

Rated at 600V DC / Rated breaking capacity 30kA

Part Number	Description	Price	Per
50-225-26/10A	10A	£7.88	1
50-225-26/15A	15A	£7.88	1
50-225-26/20A	20A	£7.88	1

10 x 38mm uR gPV 1000V DC

Box Qty 10




Manufactured by Siba

Fuse-links for Photovoltaic Applications

gPV (IEC) / gR (UL) / IEC 60 269-6 / UL 248-13

Rated at 1000V DC / Rated breaking capacity 30kA

Part Number	Description	Price	Per
50-215-26/10A	10A	£10.38	1
50-215-26/12A	12A	£10.38	1
50-215-26/15A	15A	£10.38	1
50-215-26/16A	16A	£10.38	1
50-215-26/20A	20A	£10.38	1

10 x 38mm gL (General Line)

Box Qty 10




Manufactured by Mersen

Rated at 500V 120kA up to 25A (400V 120kA 32A)

Part Number	Description	Price	Per
16011	1A	£0.95	1
16013	2A	£0.66	1
16019	4A	£0.66	1
16023	6A	£0.66	1
16027	8A	£0.66	1
16031	10A	£0.66	1
16033	12A	£0.75	1
16035	16A	£0.66	1
16037	20A	£0.66	1
16039	25A	£0.66	1
16043	32A	£0.66	1

NB: Other values available on request

10 x 38mm aM (Motor Rated)

Box Qty 10



MERSEN

Manufactured by Mersen

Rated at 500V 120kA up to 20A (400V 120kA 25A & 32A)

Part Number	Description	Price	Per
16511	1A	£1.02	1
16513	2A	£0.66	1
16519	4A	£0.66	1
16523	6A	£0.66	1
16527	8A	£0.66	1
16531	10A	£0.66	1
16533	12A	£0.66	1
16535	16A	£0.66	1
16537	20A	£0.66	1
16539	25A	£0.68	1
16543	32A	£0.88	1

NB: Other values available on request

10 x 38mm 600V uR (Ultra Rapid)

Box Qty 10



SIBA
SICHERUNGEN/FUSES

Manufactured by Siba

600V

Part Number	Description	Price	Per
60-033-05/2A	2A	£6.37	1
60-033-05/4A	4A	£6.37	1
60-033-05/6A	6A	£6.37	1
60-033-05/10A	10A	£6.37	1
60-033-05/16A	16A	£6.37	1
60-033-05/20A	20A	£6.37	1
60-033-05/25A	25A	£6.37	1
60-033-05/30A	30A	£6.37	1

10 x 38mm 690V uR (Ultra Rapid)

Box Qty 10



SIBA
SICHERUNGEN/FUSES

Manufactured by Siba

690V

Part Number	Description	Price	Per
50-179-06/2A	2A	£6.88	1
50-179-06/4A	4A	£6.88	1
50-179-06/6A	6A	£6.88	1
50-179-06/10A	10A	£6.88	1
50-179-06/16A	16A	£6.88	1
50-179-06/20A	20A	£6.88	1
50-179-06/25A	25A	£6.88	1
50-179-06/30A	30A	£6.88	1

10 x 38mm Fuse Holders (Din Rail Mounting)



MERSEN

Manufactured by Mersen

Maximum load - 32A gL/gG / CMS modular fuse base

Part Number	Description	Price	Per
24202	CMS 1P	£3.88	1
24206	CMS 1P + Neutral	£4.87	1
24212	CMS 2P	£11.47	1
24214	CMS 3P	£14.09	1

NB: The above CMS fuse holders can take uR fuses up to 27A with 6mm² cable

10 x 38mm Fuse Holder for uR gPV 1000V DC String Fuses



MERSEN

Manufactured by Mersen

UI512 / IEC 60947-3 / Din rail mounting
17.5mm width / for PV and DC applications

Part Number	Description	Price	Per
D1009979	Single Module Fuse Holder for 10 x 38mm uR gPV 1000V DC	£9.96	1

14 x 51mm Cylindrical Fuses

14 x 51mm gL (General Line)

Box Qty 10




Manufactured by Mersen

Rated at 690V 80kA up to 25A (500V 120kA 32A & 40A / 400V 120kA 50A)

Part Number	Description	Price	Per
17031	10A	£1.38	1
17035	16A	£1.38	1
17037	20A	£1.38	1
17039	25A	£1.38	1
17043	32A	£1.46	1
17047	40A	£1.46	1
17051	50A	£1.52	1

NB: Other values available on request

14 x 51mm aM (Motor Rated)

Box Qty 10




Manufactured by Mersen

Rated at 690V 80kA up to 25A (500V 120kA 32A & 40A / 400V 120kA 50A)

Part Number	Description	Price	Per
17535	16A	£1.38	1
17537	20A	£1.38	1
17539	25A	£1.38	1
17543	32A	£1.54	1
17547	40A	£1.54	1
17551	50A	£1.54	1

NB: Other values available on request

14 x 51mm 690V uR (Ultra Rapid) (aR)

Box Qty 10




Manufactured by Siba

Part Number	Description	Price	Per
50-124-06/4A	4A	£8.76	1
50-124-06/6A	6A	£8.76	1
50-124-06/8A	8A	£8.76	1
50-124-06/10A	10A	£8.76	1
50-124-06/16A	16A	£8.76	1
50-124-06/20A	20A	£8.95	1
50-124-06/25A	25A	£8.95	1
50-124-06/32A	32A	£9.25	1
50-124-06/40A	40A	£9.25	1
50-124-06/50A	50A	£10.01	1

14 x 51mm 690V uR (Ultra Rapid + Striker)

Box Qty 10




Manufactured by Siba

Part Number	Description	Price	Per
50-126-06/20A	20A	£14.64	1
50-126-06/25A	25A	£14.64	1
50-126-06/32A	32A	£14.64	1
50-126-06/40A	40A	£14.64	1
50-126-06/50A	50A	£16.82	1

14 x 51mm Fuse Holders (Din Rail Mounting)




Manufactured by Mersen

Maximum load - 50A gL/gG / din rail mounting

Part Number	Description	Price	Per
29002	MS 1P	£10.52	1
29014	MS 3P	£36.00	1

22 x 58mm Cylindrical Fuses

22 x 58mm gL (General Line)

Box Qty 10




Manufactured by Mersen

Rated at 690V 80kA up to 80A (500V 120kA 100A / 400V 120kA 125A)

Part Number	Description	Price	Per
18043	32A	£2.98	1
18047	40A	£2.98	1
18051	50A	£2.98	1
18055	63A	£2.98	1
18059	80A	£2.98	1
18063	100A	£3.25	1
18065	125A	£3.25	1

NB: Other values available on request

22 x 58mm aM (Motor Rated)

Box Qty 10



MERSEN

Manufactured by Mersen

Rated at 690V 80kA up to 80A (500V 120kA 100A / 400V 120kA 125A)

Part Number	Description	Price	Per
18543	32A	£2.98	1
18547	40A	£2.98	1
18551	50A	£2.98	1
18555	63A	£3.36	1
18559	80A	£3.36	1
18563	100A	£3.48	1
18565	125A	£3.48	1

NB: Other values available on request

22 x 58mm 690V uR (Ultra Rapid)

Box Qty 10



SIBA
SICHERUNGEN/FUSES

Manufactured by Siba

Part Number	Description	Price	Per
50-140-06/32A	32A	£11.32	1
50-140-06/40A	40A	£15.57	1
50-140-06/50A	50A	£15.57	1
50-140-06/63A	63A	£15.95	1
50-140-06/80A	80A	£15.95	1
50-140-06/100A	100A	£19.02	1

22 x 58mm 690V uR (Ultra Rapid + Striker)

Box Qty 10



SIBA
SICHERUNGEN/FUSES

Manufactured by Siba

Part Number	Description	Price	Per
50-142-06/25A	25A	£15.83	1
50-142-06/32A	32A	£15.83	1
50-142-06/40A	40A	£19.02	1
50-142-06/50A	50A	£19.02	1
50-142-06/63A	63A	£20.51	1
50-142-06/80A	80A	£20.51	1
50-142-06/100A	100A	£21.70	1

22 x 58mm Fuse Holders (Din Rail Mounting)



MERSEN

Manufactured by Mersen

Maximum load - 125A gL/gG / din rail mounting

Part Number	Description	Price	Per
29202	MS 1P	£15.11	1
29214	MS 3P	£48.04	1

Cylindrical Fuse Accessories

Neutral Links



MERSEN

Manufactured by Mersen

Part Number	Description	Price	Per
19000	8 x 31	£1.05	1
19100	10 x 38	£0.94	1
19200	14 x 51	£1.46	1
19300	22 x 58	£2.88	1

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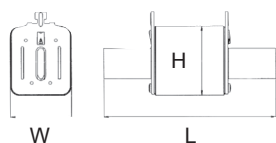
Call our sales team for
further details:
01582 692440



NH Blade Type Fuses NH Size 00 Blade Type Fuses

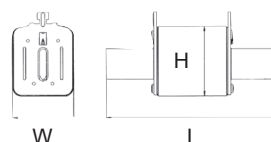
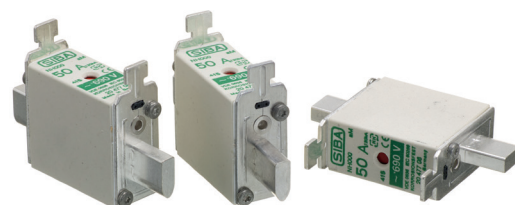
NH000 / NH00 aM (Motor Rated) 690V Box Qty 3

NHc00 Compact (000) gL 500V Box Qty 10 or 3



Manufactured by Siba
With combi indicator
Dimensions: W 20.5 / H 40.5 / L 78mm

Part Number	Description	Price	Per
20-000-13/6A	6A	£9.53	1
20-000-13/10A	10A	£4.63	1
20-000-13/16A	16A	£4.63	1
20-000-13/20A	20A	£4.63	1
20-000-13/25A	25A	£4.63	1
20-000-13/32A	32A	£4.63	1
20-000-13/35A	35A	£4.63	1
20-000-13/40A	40A	£4.63	1
20-000-13/50A	50A	£4.63	1
20-000-13/63A	63A	£4.63	1
20-000-13/80A	80A	£4.63	1
20-000-13/100A	100A	£4.63	1

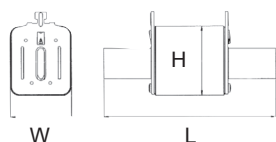


Manufactured by Siba
With combi indicator
20-477-08 dimensions: W 20.5 / H 47 / L 78mm
20-209-08 dimensions: W 29.5 / H 47 / L 78mm
Other amperages available on request

Part Number	Description	Price	Per
20-477-08/35A	35A	£10.91	1
20-477-08/40A	40A	£10.91	1
20-477-08/50A	50A	£10.91	1
20-209-08/63A	63A	£12.44	1
20-209-08/80A	80A	£12.44	1
20-209-08/100A	100A	£13.41	1
20-209-08/125A	125A	£13.41	1

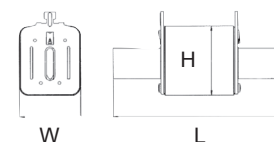
NH00 uR (Ultra Rapid) 500V Box Qty 3

NH00 gL (General Line) 500V Box Qty 10 or 3



Manufactured by Siba
With combi indicator
Dimensions: W 29.5 / H 46 / L 78mm

Part Number	Description	Price	Per
20-001-13/125A	125A	£5.85	1
20-001-13/160A	160A	£6.04	1



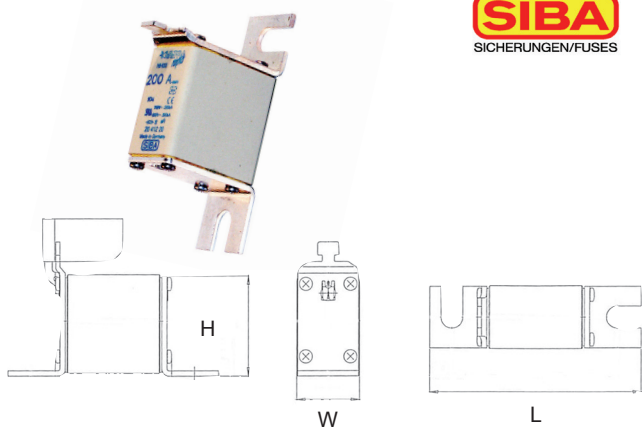
Manufactured by Siba
With combi indicator
Dimensions: W 28 / H 42 / L 78mm

Part Number	Description	Price	Per
20-001-04/100A	100A	£25.07	1
20-001-04/125A	125A	£27.17	1
20-001-04/160A	160A	£28.51	1

NH00 80mm Fixing Centres

NH00 uR (Ultra Rapid) 690 / 700V

Box Qty 3



Manufactured by Siba

Dimensions: W 29.5 / H 39 / L 105mm

Part Number	Description	Price	Per
20-412-20/35A	35A	£37.66	1
20-412-20/50A	50A	£37.66	1
20-412-20/63A	63A	£37.66	1
20-412-20/80A	80A	£37.66	1
20-412-20/100A	100A	£45.59	1
20-412-20/125A	125A	£45.59	1
20-412-20/160A	160A	£54.22	1
20-412-20/200A	200A	£54.22	1
20-412-20/250A	250A	£65.53	1
20-412-20/315A	315A	£68.44	1

NH Size 0 Blade Type Fuses

NH0 gL (General Line) 500V

Box Qty 3



Manufactured by Siba

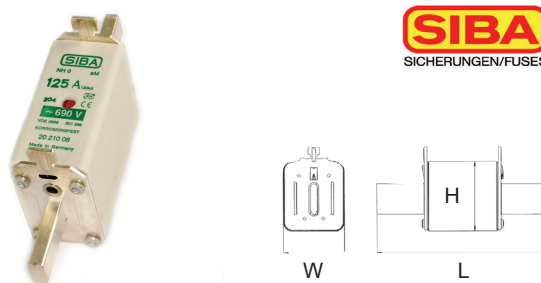
With combi indicator

Dimensions: W 29.5 / H 46 / L 125mm

Part Number	Description	Price	Per
20-002-13/80A	80A	£9.97	1
20-002-13/100A	100A	£9.97	1
20-002-13/125A	125A	£11.61	1
20-002-13/160A	160A	£11.61	1
20-002-13/200A	200A	£17.16	1

NH0 aM (Motor Rated) 690V

Box Qty 3



Manufactured by Siba

With combi indicator

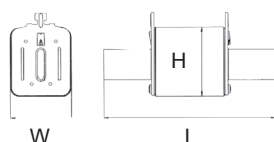
Dimensions: W 29 / H 42 / L 125mm

Part Number	Description	Price	Per
20-210-08/125A	125A	£16.91	1
20-210-08/160A	160A	£17.02	1

NH Size 1 Blade Type Fuses

NH1 gL (General Line) 500V

Box Qty 3



Manufactured by Siba

With combi indicator

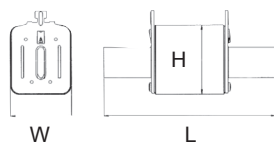
Dimensions: 50A to 160A: W 29.5 / H 46 / L 135mm

200A to 250A: W 42 / H 51.5 / L 135mm

Part Number	Description	Price	Per
20-003-13/50A	50A	£11.26	1
20-003-13/63A	63A	£11.26	1
20-003-13/80A	80A	£11.26	1
20-003-13/100A	100A	£11.26	1
20-003-13/125A	125A	£11.26	1
20-003-13/160A	160A	£11.26	1
20-003-13/200A	200A	£11.72	1
20-003-13/224A	224A	£11.72	1
20-003-13/250A	250A	£11.72	1

NH1 aM (Motor Rated) 690V

Box Qty 3



Manufactured by Siba

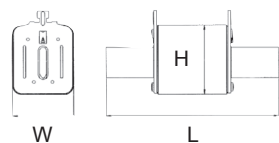
With combi indicator / Dimensions: W 29 / H 42 / L 135mm

Dimensions: 200A+ W 42 / H 51.5 / L 150mm

Part Number	Description	Price	Per
20-211-08/63A	63A	£15.80	1
20-211-08/80A	80A	£15.80	1
20-211-08/100A	100A	£15.80	1
20-211-08/125A	125A	£16.91	1
20-211-08/160A	160A	£16.91	1
20-211-08/200A	200A	£17.79	1
20-211-08/250A	250A	£19.54	1

NH1 uR (Ultra Rapid) 500V

Box Qty 3



Manufactured by Siba

With combi indicator

Dimensions: W 29 / H 42 / L 135mm

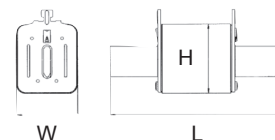
Dimensions: 200A+ W 42 / H 51.5 / L 135mm

Part Number	Description	Price	Per
20-003-04/125A	125A	£57.48	1
20-003-04/160A	160A	£62.68	1
20-003-04/200A	200A	£62.68	1
20-003-04/250A	250A	£68.91	1
20-003-04/400A	400A	£100.22	1

NH Size 2 Blade Type Fuses

NH2 gL (General Line) 500V

Box Qty 3



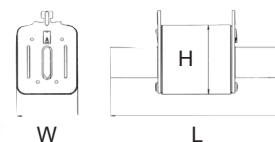
Manufactured by Siba

With combi indicator / Dimensions: W 53 / H 59 / L 150mm

Part Number	Description	Price	Per
20-004-13/100A	100A	£14.34	1
20-004-13/125A	125A	£14.34	1
20-004-13/160A	160A	£14.34	1
20-004-13/200A	200A	£14.34	1
20-004-13/250A	250A	£14.34	1
20-004-13/315A	315A	£18.95	1
20-004-13/355A	355A	£18.95	1
20-004-13/400A	400A	£18.95	1

NH2 aM (Motor Rated) 690V

Box Qty 3



Manufactured by Siba

With combi indicator / Dimensions: W 53 / H 59 / L 150mm

Part Number	Description	Price	Per
20-212-08/250A	250A	£20.41	1
20-212-08/315A	315A	£25.95	1
20-212-08/355A	355A	£26.12	1
20-212-08/400A	400A	£26.24	1

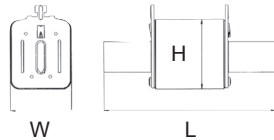
NB: An Ultra Rapid version is also available

listed in
LUCKINSLive™

NH Size 3 Blade Type Fuses

NH3 gL (General Line) 500V

Box Qty 3



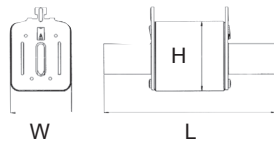
Manufactured by Siba

With combi indicator / Dimensions: W 65 / H 73.5 / L 150mm

Part Number	Description	Price	Per
20-005-13/500A	500A	£39.53	1
20-005-13/630A	630A	£39.53	1

NH3 aM (Motor Rated) 690V

Box Qty 3



Manufactured by Siba

With combi indicator

Dimensions: W 75 / H 75 / L 150mm

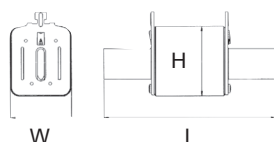
Part Number	Description	Price	Per
20-213-08/500A	500A	£66.93	1
20-213-08/630A	630A	£66.93	1

NB: An ultra rapid version is also available

NH Size 4 Blade Type Fuses

NH4 gL (General Line) 500V

Box Qty 3



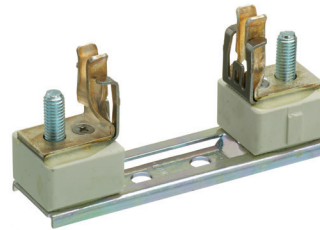
Manufactured by Siba

Dimensions: W 102 / H 110 / L 200mm

Part Number	Description	Price	Per
20-006-13/800A	800A	£121.85	1

NH Blade Type Fuse Holders and Accessories

Ceramic Fuse Base

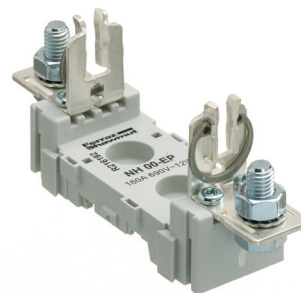


Manufactured by Siba

Screw mounting

Part Number	Description	Price	Per
21-001-01	Size 00 1P	£16.79	1
21-002-04	Size 0 1P	£20.52	1
21-003-01	Size 1 1P	£34.75	1
21-004-01	Size 2 1P	£40.69	1
21-005-01	Size 3 1P	£59.18	1
21-006-01	Size 4 1P	£232.03	1

Polyester Fuse Base



Manufactured by Mersen

Screw & din rail mounting

Part Number	Description	Price	Per
42002	Size 00 1P	£13.14	1
40502KIT	Size 00 3P	£33.23	1
42302	Size 0 1P	£23.13	1
42402	Size 1 1P	£30.56	1
42414	Size 1 3P	£109.00	1



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Separator (Size 1 & 2)

Box Qty 2



Manufactured by Mersen

Part Number	Description	Price	Per
44610	Size 1 & 2	£4.20	1

Separating Plate

Box Qty 2



Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44502	Size 00	£2.45	1
44510	Size 1 & 2	£4.43	1

Fuse Covers

Box Qty 3



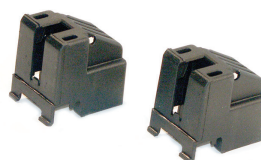
Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44802	Size 00	£3.15	1
44810	Size 1 & 2	£3.92	1

Cover Shield (Use with Poly Bases)

Box Qty 6



Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44702	Size 00	£2.16	1
44708	Size 1	£3.73	1

NH Handle (Size 00 to Size 4)



Manufactured by Mersen

Part Number	Description	Price	Per
45311	Handle for NH Fuses	£36.52	1

Fuse Disconnect

NH Fuse Load Switches



Manufactured by Albrecht Jung and Mersen

Part Number	Description	Price	Per
DTL160KIT	NH00 + Shrouds	£79.80	1
DTL250KIT	NH1 + Shrouds	£194.35	1
DTL400KIT	NH2 + Shrouds	£342.30	1
DTL630KIT	NH3 + Shrouds	£367.00	1

American Fuses

Midget Fuses

ATDR Class CC

Box Qty 10



Manufactured by Mersen

Time delay / 10.3 x 38mm / 200kA IR / 600V AC / 300V DC

Part Number	Description	Price	Per
ATDR1	1A	£14.59	1
ATDR2	2A	£14.59	1
ATDR3	3A	£14.59	1
ATDR4	4A	£14.59	1
ATDR5	5A	£14.59	1
ATDR6	6A	£15.65	1
ATDR10	10A	£14.59	1
ATDR15	15A	£14.59	1
ATDR20	20A	£15.03	1
ATDR25	25A	£15.64	1
ATDR30	30A	£14.59	1

NB: Other values available on request

ATMR Class CC

Box Qty 10



Manufactured by Mersen

10.3 x 38mm / 600V AC 200kA IR

Part Number	Description	Price	Per
ATMR1/4	1/4A	£11.85	1
ATMR1/2	1/2A	£9.43	1
ATMR1	1A	£9.02	1
ATMR2	2A	£9.02	1
ATMR3	3A	£9.02	1
ATMR5	5A	£9.02	1
ATMR6	6A	£9.43	1
ATMR8	8A	£9.65	1
ATMR10	10A	£9.02	1
ATMR12	12A	£9.18	1
ATMR15	15A	£9.02	1
ATMR20	20A	£9.02	1
ATMR25	25A	£9.65	1
ATMR30	30A	£9.02	1

NB: Other values available on request

ATM

Box Qty 10



Manufactured by Mersen

Fast acting / 10.3 x 38mm / 600V AC, 500V DC

Part Number	Description	Price	Per
ATM1/2	1/2A	£9.07	1
ATM1	1A	£8.60	1
ATM2	2A	£8.60	1
ATM3	3A	£8.60	1
ATM4	4A	£8.60	1
ATM5	5A	£8.60	1
ATM6	6A	£8.13	1
ATM10	10A	£8.60	1
ATM15	15A	£8.60	1
ATM20	20A	£8.45	1
ATM30	30A	£8.45	1

NB: Other values available on request

ATQ

Box Qty 10



Manufactured by Mersen

Time delay / 10.3 x 38mm / 500V AC

Part Number	Description	Price	Per
ATQ1/2	1/2A	£7.00	1
ATQ1	1A	£6.72	1
ATQ2	2A	£6.72	1
ATQ3	3A	£6.72	1
ATQ5	5A	£6.72	1
ATQ6	6A	£6.72	1
ATQ10	10A	£6.72	1
ATQ15	15A	£6.72	1
ATQ20	20A	£6.72	1
ATQ25	25A	£6.72	1
ATQ30	30A	£6.72	1

NB: Other values available on request

ATQR Class CC

Box Qty 10



Manufactured by Mersen
Time delay
10.3 x 38mm 200kA IR / 600V AC

Part Number	Description	Price	Per
ATQR1	1A	£13.78	1
ATQR2	2A	£13.78	1
ATQR3	3A	£13.78	1
ATQR4	4A	£13.78	1
ATQR5	5A	£13.78	1
ATQR10	10A	£13.78	1
ATQR20	20A	£13.78	1
ATQR25	25A	£13.78	1

NB: Other values available on request

AG Class G

Box Qty 10



Manufactured by Mersen
480V AC / 100kA IR

Part Number	Description	Price	Per
AG15	15A	£11.95	1
AG20	20A	£12.74	1
AG30	30A	£16.68	1

NB: Other values available on request

Comparison Chart for American Semiconductor Fuses

Voltage	Ferraz Shawmut	Bussmann	Littlefuse
150V AC	A13X	KA/KAH/KAW	L15S
250V AC	A25X	KAB/KAX	L25S
500V AC	A50P	KBH/KLH	L50S
500V AC	A50P	FWH	-
600V AC	A60X	KBC	L60S
700V AC	A70P	FWP	L70S
500V AC	A50QS	XL50F (Brush)	-
700V AC	A70Q	XL70F (Brush)	-
1000V AC	A100P	XL100F (Brush)	-

TRM

Box Qty 10



Manufactured by Mersen
Time delay / 10.3 x 38mm / 250V AC

Part Number	Description	Price	Per
TRM1	1A	£4.77	1
TRM2	2A	£4.35	1
TRM5	5A	£4.35	1
TRM6	6A	£4.95	1
TRM10	10A	£4.35	1
TRM12	12A	£4.95	1
TRM15	15A	£4.35	1
TRM20	20A	£4.59	1
TRM30	30A	£4.59	1

NB: Other values available on request

Power Fuses

AJT Class J

Box Qty 10



Manufactured by Mersen
Time delay / 600V AC / 200kA IR

Part Number	Description	Price	Per
AJT10	10A	£17.12	1
AJT15	15A	£17.12	1
AJT20	20A	£17.12	1
AJT30	30A	£17.12	1
AJT50	50A	£29.09	1
AJT100	100A	£60.17	1
AJT200	200A	£120.34	1

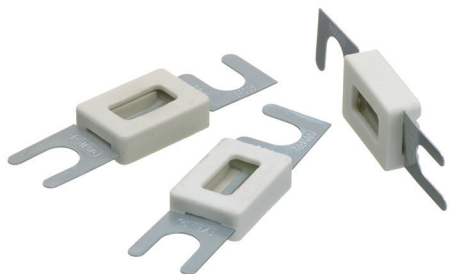
NB: Other values available on request

American Fuse Comparison Chart

Mersen	Bussmann	Littlefuse
ATM	KTK	KLK
TRM	FNM	FLM
ATQ	FNQ	FLQ
OTM	BAN	BLN
OTM	BAF	BLF
SBS	BBS	BLS
GFN	FNA	FLA
ATDR	LPCC	CCMR
ATQR	FNQR	KLDR
ATMR	KTKR	KLKR
AG	SC	SLC

Application Specific Fuses Fork Lift Truck Fuse

60mm Enclosed 80V Fork Lift Truck Fuse Box Qty 20



Manufactured by Siba

Part Number	Description	Price	Per
90-058-05/35A	35A	£3.60	1
90-058-05/50A	50A	£3.60	1
90-058-05/63A	63A	£3.60	1
90-058-05/80A	80A	£3.60	1
90-058-05/100A	100A	£3.60	1
90-058-05/125A	125A	£3.60	1
90-058-05/160A	160A	£3.60	1
90-058-05/175A	175A	£3.60	1
90-058-05/200A	200A	£3.60	1
90-058-05/225A	225A	£3.60	1
90-058-05/250A	250A	£3.60	1
90-058-05/275A	275A	£3.60	1
90-058-05/300A	300A	£3.60	1
90-058-05/325A	325A	£3.60	1
90-058-05/355A	355A	£3.60	1
90-058-05/375A	375A	£3.60	1
90-058-05/400A	400A	£3.60	1
90-058-05/425A	425A	£3.60	1
90-058-05/500A	500A	£3.60	1

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Bottle Fuses (D-Type) D01 (E14) gL (Neozed)

D01 (E14) gL 11mm x 36mm (Neozed) Box Qty 10



Manufactured by ETI / 400V AC / 250V DC

Part Number	Description	Price	Per
D01/2A/GL	2A	£0.80	1
D01/4A/GL	4A	£0.80	1
D01/6A/GL	6A	£0.80	1
D01/10A/GL	10A	£0.75	1
D01/16A/GL	16A	£0.75	1

D02 (E18) gL (Neozed)

D02 (E18) gL 15.3mm x 36mm (Neozed) Box Qty 10



Manufactured by ETI / 400V AC / 250V DC

Part Number	Description	Price	Per
D02/20A/GL	20A	£0.86	1
D02/25A/GL	25A	£0.86	1
D02/35A/GL	35A	£0.95	1
D02/50A/GL	50A	£1.23	1
D02/63A/GL	63A	£1.23	1



A full range of **ETI bases, gauge pieces & screw caps** are available from stock.

Please contact sales for further details.

DI ND (E16) gL (Diazed)

DI ND (E16) gL 12.5mm x 50mm (Diazed) **Box Qty 10**




Manufactured by ETI
500V AC

Part Number	Description	Price	Per
DI/2A/GL	2A	£1.09	1
DI/4A/GL	4A	£1.09	1
DI/6A/GL	6A	£1.09	1
DI/10A/GL	10A	£0.92	1
DI/16A/GL	16A	£0.92	1
DI/20A/GL	20A	£1.16	1
DI/25A/GL	25A	£1.16	1

DII (E27) gL (Diazed)

DII (E27) gL 22mm x 50mm (Diazed) **Box Qty 5**




Manufactured by ETI
500V AC

Part Number	Description	Price	Per
DII/2A/GL	2A	£0.88	1
DII/4A/GL	4A	£0.88	1
DII/6A/GL	6A	£0.88	1
DII/10A/GL	10A	£0.64	1
DII/16A/GL	16A	£0.64	1
DII/20A/GL	20A	£0.92	1
DII/25A/GL	25A	£0.92	1

DIII (E33) gL (Diazed)

DIII (E33) gL 27mm x 50mm (Diazed) **Box Qty 5**




Manufactured by ETI
500V AC

Part Number	Description	Price	Per
DIII/35A/GL	35A	£1.49	1
DIII/50A/GL	50A	£1.84	1
DIII/63A/GL	63A	£1.84	1

NB: A full range of ETI accessories are available from stock.

Specifications:

Rated Current	2 to 100A
Fusing Characteristics	gG and TDZ
Fuse Size Code	DI
Series	Class gG/gL
Body Material	Ceramic
Length	50mm

Technical Data

Rated Voltage Un	500V AC, 400V DC
Rated Current In	DI, DII: 2 - 25A, DIII: 32 - 63A
Breaking Capacity at 1,1 Un	50kA AC cos ϕ = 0,2
	8kA DC T = 15ms
Fusing Characteristics	gG and TDZ
Standards	DIN EN 60269-1, IEC 60269-1:2005-04 (VDE 0636 Teil 10): 1999-11
	DIN EN 60269-3, IEC 60269-3:2003 (VDE 0636 Teil 30): 1995-12
	DIN EN 60269-3-1, IEC 60269-3-1: 2004-07
	(VDE 0636 Teil 301): 1998-01
	DIN VDE 0635/02.84



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Comparison Chart for American Semiconductor Fuses

Voltage	Ferraz Shawmut	Bussmann	Littlefuse
150V AC	A13X	KAA/KAH/KAW	L15S
250V AC	A25X	KAB/KAX	L25S
500V AC	A50P	KBH/KLH	L50S
500V AC	A50P	FWH	-
600V AC	A60X	KBC	L60S
700V AC	A70P	FWP	L70S
500V AC	A50QS	XL50F (Brush)	-
700V AC	A70Q	XL70F (Brush)	-
1000V AC	A100P	XL100F (Brush)	-

Look Up Table for Solid / Neutral Links (Type SL)

BS88 Reference (And Fixing Centres)	Catalogue No	Current Rating	Box Qty	Fixing Centres (mm)	Replaces Fuse Type	
					415V	600V
BS88 Bolted Type						
A1 (44.5mm)	SLA1	20	10	44.5	NIT	SSA1
A2 (73mm)	SLA2	32	10	73	TIA/GTIA	SSA2
A3 (73mm)	SLA3	63	10	73	TIA/TIS	SSA3
A4 (94mm)	SLA4	100	5	94	TCP	SSA4
(As A4) (94mm)	SLA4	200	5	94	TFP	SSFP
BS88 Compact Dimension Type						
E1	SLE1	20	10	N/A	SS	
F1	SLF1	32	10	N/A	NS	
F2	SLF2	63	10	N/A	MES	

Comparison Chart for Bolt in Fuse Holders

Lawson Reference	Bussmann Hawker	GEC Alsthom	Bill	MEM	Dorman Smith	To Fit Fuse
LBI20FC/FCBK LBI20FC/BCBK LBI20BC/BCBK	32NF CM32FC 32NFBS 32NBS	RS20H RS20PH RS20P	-	20MFB 20MFD 20MFC	32NMF 32NNFB 32NNBS	NIT
LBI32FC/FCBK LBI32FC/BCBK LBI32BC/BCBK	32AF CM32F 32AFBS 32ABS	RS32H RS32PH RS32P	-	32MFB 32MFD 32MFC	2AF 32AFBS 32ABS	GTIA/TIA
LBI63FC/FCBK LBI63FC/BCBK LBI63BC/BCBK	63BF CM63F 63BFBS 63BBS	RS63H RS63PH RS63P	-	63MFB 63MFD 63MFC	63BF 63BFBS 63BBS	TIS
LBI100FC/FCBK LBI100FC/BCBK LBI100BC/BCBK	100CF CM100F 100CFBS 100CBS	RS100H RS100PH RS100P	V100FF V100FB V100BB	100MF 100CFB 100MFC	100CF 100CFBS 100CBS	TCP
LBI200FC/FCBK LBI200FC/BCBK LBI200BC/BCBK	200DF 200DFBS 200DBS	RS200H RS200PH RS200P	V200FF V200BF V200BB	200MFB 200MFD 200MFC	200DF 200DFBS 200DBS	TF

Comparison Chart for Clip fit Fuse Holders

Lawson Reference	Bussmann Hawker	GEC Alsthom	Bill	To Fit Fuse	
LCF32FC/FCBK	32NNSF	SC32H-D	V32FF	NS	
LCF32FC/BBCBK	-	SC32BH	-		
LCF32FC/BCBK	32NNSFBS	-	V32FB		
LCF32BC/BCBK	32NNBSBS	SC32P	-		
LCF32FC/FCWH	32NNSF/W	SC32H-D WHITE	V32FFW		
LCF32FC/BBCWH	-	-	-		
LCF32FC/BCWH	32NNSFBS/W	-	V32FBW		
LCF32BC/BCWH	32NNBSBS/W	SC32PWHITE	-		
LCF63FC/FCBK	63ENSF	SC63H-D	V63FF		MES
LCF63FC/BCBK	-	SC63BH	-		
LCF63FC/BCBK	63ENSFBS	-	V63FB		
LCF63BC/BCBK	63ENSBS	SC63P	-		
LCFC/FCWH	63ENSF/W	SC63H-D WHITE	V63FFW		
LCF63FC/BBCWH	-	-	-		
LCF63FC/BCWH	63ENSFBS/W	-	V63FBW		
LCF63BC/BCWH	63ENBSBS/W	-	-		

BS88 Industrial Fuse Comparison Chart with Fixing Centres

Fixing Centres	Rating Amps	BS88 Ref	Europa Order Code	GE Power (GEC)	Lawson	Cooper Bussmann	MEM	Brush
Off Set Tags	-	-	-	-	-	-	-	-
44.5mm	2-32A	A1	50-085-01 Page 123 Box Qty 10	NIT	NIT	NITD	SA2	F21
73mm	2-32A	A2	50-001-01 Page 123 Box Qty 10	TIA	TIA	AAO	SB3	HO7
73mm	32-63A	A3	50-002-01 Page 123 Box Qty 10	TIS	TIS	BAO	SB4	KO7
94mm	63-100A	A4	50-003-01 Page 124 Box Qty 10	TCP	TCP	CEO	SD5	L14
94mm	125-200A	-	50-004-01 Page 124 Box Qty 3	TFP	TFP	DEO	SD6	M14
Central Tags	-	-	-	-	-	-	-	-
97mm	20-63A	-	TB Page 124 Box Qty 10	TB	TB	AC	SE4	KO8
111mm	16-63A	B1	50-007-01 Page 125 Box Qty 1	TBC	TBC	AD/BD	SF5	
111mm	80-100A	B1	50-008-01 Page 125 Box Qty 1	TC	TC	CD	SF5	LO9
111mm	125-200A	B2	50-009-01 Page 125 Box Qty 3	TF	TF	DD	SF6	MO9
111mm	200-315A	B3	50-010-01 Page 125 Box Qty 3	TKF	TKF	ED	SF7	NO9
133mm	250-315A	C1	50-011-01 Page 125 Box Qty 3	TKM	TKM	EFS	SG7	N11
111mm	355-400A	B4	50-110-01 Page 125 Box Qty 3	TMF	TMF	ED	SF8	PO9
133 / 184mm	355-400A	C1	50-039-01 Page 126 Box Qty 3	TM	TM	EF	SH8	P11
133 / 184mm	500-630A	C2	50-040-01 Page 126 Box Qty 1	TTM	TTM	FF	SH9	R11
165 / 229mm	450-630A	-	-	TT	TT	FG	SY9	R12
133 / 184mm	710-800A	C3	50-041-01 Page 126 Box Qty 1	TLM	TLM	GF	SH10	S11
165 / 229mm	670-800A	-	-	TLT	TLT	GG	SY10	S12

Duty Category Information Table

Current	Category	Typical applications	Relevant IEC Product Standard
AC	AC-1	Non-inductive or slightly inductive loads, resistance furnaces.	947-4
	AC-3	Squirrel-cage motors: Starting, switching off motors during running.	947-3
	AC-15	Control of AC electromagnetic Loads.	947-5-1
	AC-21	Switching of resistive loads, including moderate overloads.	947-3
	AC-22	Switching of mixed resistive & inductive loads.	947-3
	AC-23	Switching of motor loads or other highly inductive loads.	947-3
DC	DC-1	Non-inductive or slightly inductive loads, resistance furnaces.	947-4
	DC-13	Control of DC electromagnets	947-5-1

TC1 - D & LC1 - F Range Contactor Comparison Chart

TC Contactors	AC-3 Amps	AC-3 kW 415V	AEG	GE	Sprecher & Schuh	ABB	Square 'D'	Siemens Old No.	Lovato	Schneider Electric	Tian Teco	Moeller Electric
TC1-D09	9.0	4.0	LS4	CL00A310T	CA3-9	A9-30	PD2	3TF30	BF9	LC1-D09	CN6	DIL00M10
TC1-D12	12.0	5.5	LS7	CL01A310T	CA3-12	A12-30	PD3	3TF31	BF12	LC1-D12	CN11	DIL00AM10
TC1-D18	18.0	9	LS17	CL02A310T	CA3-16	A16-30	PE4	3TF32	BF16	LC1-D18	CN16	DIL0M+11DILM
TC1-D25	25.0	11.0	LS27	CL25A310M	CA3-23	A25-30	PE5	3TF33	BF25	LC1-D25	CN18	DIL0AM+11DILM
TC1-D32	32.0	15.0	LS37	CL04A310M	CA3-30	A30-30	PF1	3TF34	BF32	LC1-D32	CN25	DIL1M+11DILM
TC1-D40	40.0	22.0	LS47	CL45A300M	CA3-37	A40-30	-	3TF35	BF38	LC1-D40	CN35	DIL1AM+11DILM
TC1-D50	50.0	25.0	LS47	CL06A311M	-	A50-30	PF3	3TF46	BF50	LC1-D50	CN50	DIL2M+11DILM
TC1-D65	65.0	37.0	LS77	CL07A311M	CA3-60	A63-30	PG3	3TF47	BF65	LC1-D65	CN65	DIL2AM+11DILM
TC1-D80	80.0	45.0	LS107	CL08A311M	CA6-85	A80-30	PJ1	3TF48	BF80	LC1-D80	-	DIL3M-22
TC1-D95	95.0	45.0	LS107	CL08A311M	-	A95-30	PJ1	3TF49	BF95	LC1-D95	CN100	DIL3AM-22
LC1-F115A	115.0	59.0	LS107	CL10A311M	CA1-60	A110-30	PJ3	3TF50	BF115	LC1-F115	CN125	DIL4M-22
LC1-F150A	150.0	80.0	LS177	CK75CA311	CA1-100	EH145-30	PJ5	3TF51	B145	LC1-F150	CN150	DIL4AM-22
LC1-F185A	185.0	100.0	LS177	CK08CA311	CA1-150	EH175-30	PK1	3TF52	B180	LC1-F185	CN180	DIL6M-22
LC1-F225A	225.0	110.0	LS247	CK85BA311	CA1-250	EH250-30	PK3	3TF54	-	LC1-F225	CN220	-
LC1-F265A	265.0	140.0	LS307	CK09BE311	CA1-250	EH250-30	-	3TF55	B250	LC1-F265	CN300	DIL6AM-22
LC1-F330A	330.0	180.0	LS307	CK95BE311	CA1-480	EH250-30	DLS451	3TF55	-	LC1-F330	-	-
LC1-F400A	400.0	200.0	LS407	CK10BE311	CA1-480	EH370-30	DLS451	3TF56	-	LC1-F400	-	DIL8AM-22
LC1-F500A	500.0	220.0	LS507	CK10BE311	CA1-480	EH370-30	DLS451	3TF56	B400	LC1-F500	-	DIL10AM-22
LC1-F630A	630.0	355.0	LS637	CK12BE311	CA1-480	EH700-30	DLS651	3TF68	B630	LC1-F630	-	DIL12AM-44

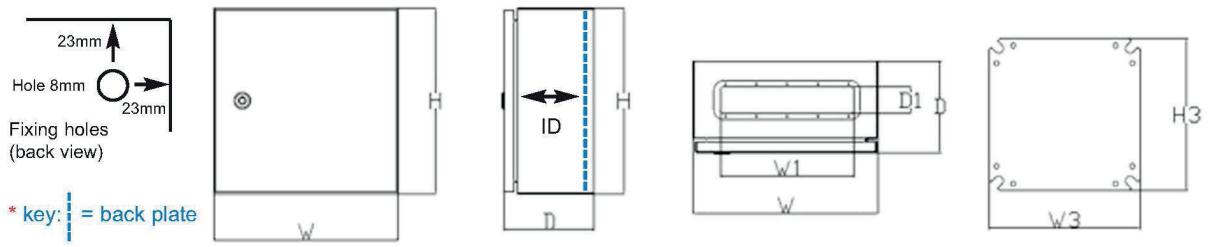
* This comparison chart is for guidance only and we do not guarantee identical performance for the comparative types shown

Motor Current Selection Table

Three Phase Motor Approximate Full Load Current at Line Voltage

220V	240V	380V	415V	Motor Rating	
				Kw	HP
-	-	-	-	0.07	1/12
0.7	0.6	0.4	0.4	0.1	1/8
1	0.9	0.5	0.5	0.12	1/6
1.3	1.2	0.8	0.7	0.18	1/4
1.6	1.5	0.9	0.9	0.25	1/3
2.5	2.3	1.4	1.3	0.37	1/2
3.1	2.8	1.8	1.6	0.56	3/4
3.5	3.2	2	1.8	0.75	1
5	4.5	2.8	2.6	1.1	1.5
6.4	5.8	3.7	3.4	1.5	2
9.5	8.7	5.5	5	2.2	3
12	11	7	6.5	3	4
15	13	8	8	3.7	5
16	14	9	8	4	5.5
20	19	12	11	5.5	7.5
27	25	16	15	7.5	10
34	32	20	18	9.3	12.5
37	34	22	20	10	13.5
41	37	23	22	11	15
64	50	31	28	15	20
67	62	39	36	18.5	25
74	70	43	39	22	30

Part number	External Dimensions			Internal Depth ID	Gland Plate Hole		Mounting plate		Other Information (GPTB = Gland Plate Top & Bottom)
	H (mm)	W (mm)	D (mm)		W1 (mm)	D1 (mm)	W3 (mm)	H3 (mm)	
STB252515	250	250	150	125	130	62	195	200	1 Lock, GPTB
STB302515	300	250	150	125	130	62	195	245	1 Lock, GPTB
STB303015	300	300	150	125	180	62	245	245	1 Lock, GPTB
STB303020	300	300	200	175	180	62	245	245	1 Lock, GPTB
STB304020	300	400	200	175	215	62	345	245	1 Lock, GPTB
STB403015	400	300	150	125	180	62	245	345	1 Lock, GPTB
STB403020	400	300	200	175	180	62	245	345	1 Lock, GPTB
STB403025	400	300	250	225	180	62	245	350	1 Lock, GPTB
STB404015	400	400	150	125	215	62	345	345	1 Lock, GPTB
STB404020	400	400	200	175	216	62	345	345	1 Lock, GPTB
STB405020	400	500	200	175	415	120	445	345	1 Lock, GPTB
STB406020	400	600	200	175	425	120	545	345	1 Lock, GPTB
STB406030	400	600	300	275	415	120	545	345	1 Lock, GPTB
STB504020	500	400	200	175	317	120	345	445	2 Lock, GPTB
STB504025	500	400	250	225	317	120	345	445	2 Lock, GPTB
STB505025	500	500	250	225	415	120	454	450	2 Lock, GPTB
STB604020	600	400	200	175	317	120	345	545	2 Locks, GPTB
STB604030	600	400	300	275	317	120	345	545	2 Locks, GPTB
STB604040	600	400	400	360	317	120	345	545	2 Locks, GPTB
STB605020	600	500	200	175	415	120	445	545	2 Locks, GPTB
STB605025	600	500	250	225	415	120	445	545	2 Locks, GPTB
STB605030	600	500	300	275	415	120	445	545	2 Locks, GPTB
STB606020	600	600	200	175	415	120	540	540	2 Locks, GPTB
STB606025	600	600	250	225	415	120	540	540	2 Locks, GPTB
STB705020	700	500	200	175	415	120	640	440	2 Locks, GPTB
STB705025	700	500	250	225	415	120	640	440	2 Locks, GPTB
STB705030	700	500	300	275	415	120	640	440	2 Locks, GPTB
STB804030	800	400	300	275	317	120	345	740	2 Locks, GLTB
STB806020	800	600	200	175	415	120	540	740	2 Locks, GPTB
STB806030	800	600	300	275	415	120	540	740	2 Locks, GPTB
STB806040	800	600	400	360	415	120	540	740	2 Locks, GPTB
STB1006030	1000	600	300	275	415	120	540	940	2 Locks, GPTB
STB1008030	1000	800	300	275	315	120	730	940	2 locks, 4 Gland Plates (2 top / 2 bottom)
STB1008040	1000	800	400	360	315	120	730	940	2 locks, 4 Gland Plates (2 top / 2 bottom)
STB1206030	1200	600	300	275	315	120	540	1135	3 locks, 4 Gland Plates (2 top / 2 bottom)
STB1208030	1200	800	300	275	315	120	730	1135	3 locks, 4 Gland Plates (2 top / 2 bottom)
STB1208040	1200	800	400	360	315	120	730	1135	3 locks, 4 Gland Plates (2 top / 2 bottom)
STB12010030	1200	1000	300	275	315	120	730	1135	3 locks, 4 Gland Plates (2 top / 2 bottom)
PBE2821013	280	210	130	106			150	230	1 Δ Lock, No Glandplate
PBE332513	330	250	130	108			190	280	1 Δ Lock, No Glandplate
PBE4030016	400	300	165	139			240	350	2 Δ Locks, No Glandplate
PBE403019	400	300	195	165			240	350	2 Δ Locks, No Glandplate
PBE503519	500	350	195	168			288	450	2 Δ Locks, No Glandplate
PBE504017	500	400	175	145			340	450	2 Δ Locks, No Glandplate
PBE604020	600	400	200	170			340	545	2 Δ Locks, No Glandplate
PBE605022	600	500	220	185			445	530	2 Δ Locks, No Glandplate
PBE705024	700	500	245	205			450	630	2 Δ Locks, No Glandplate
PBE806026	800	600	260	225			540	725	3 Δ Locks, No Glandplate
SSTB302015	300	200	150	130			145	160	1 Lock, No Glandplate
SSTB303015	300	300	150	130			245	250	1 Lock, No Glandplate
SSTB403020	400	300	200	180			245	350	1 Lock, No Glandplate
SSTB404020	400	400	200	180			345	350	1 Lock, No Glandplate
SSTB504020	500	400	200	180			345	450	1 Lock, No Glandplate
SSTB604020	600	400	200	180			340	540	2 Locks, No Glandplate
SSTB606020	600	600	200	180			545	550	2 Locks, No Glandplate
SSTB806030	800	600	300	285			545	745	2 Locks, No Glandplate
SSTB808030	800	800	300	285			745	745	2 Locks, No Glandplate



Multi Function Time Relays

Europa: ECMFT (see page 107) - 10 Functions Listed in Blue

Relpol: MT-TUA-17S-11-9240-7 (see page 117) - 7 Functions Listed in Red

Programme settings should be set before switching the unit on!

Time Functions

On Delay: After supply voltage U has been switched on, the set time T is being measured. After the T time has lapsed, the R operating relay shall start operating and remains in operating position until the supply voltage U is switched off.

Single shot leading edge voltage controlled: After the supply voltage U has been switched on, the operating relay R starts immediately and the set time T is being measured. After the set time T has lapsed, the operating relay R returns to the initial position.

Flasher pause first: After the supply voltage U has been switched on, the set time T is being measured. After the time has lapsed, the operating relay R starts operating and the T time is being measured again. After the time has lapsed, the operating relay R returns to the initial state, and another cycle of the relay operation commences. The relay operates until the supply voltage is switched off.

Flasher pulse first: After the supply voltage U has been switched on, the set time T is measured and the operation relay R is switched on. After the time has lapsed, the operating relay R starts operating and the time T is being measured again. After the time has lapsed, the operating relay R returns to the initial state, and another cycle of the relay operation commences. The relay operates until the supply voltage is switched off.

Generating the 0.5s pulse after the T time.

OFF Delay: The supply voltage U must be constantly applied to the time relay. After the control contact S has been closed, the operating relay R starts operation immediately. After the control contact S has been opened, the set time T is being measured. After the T time has lapsed, the operating relay R returns to the initial position. When the control contact S is closed again, even before the T time has lapsed, the time measured thus far is reset, and when S is opened, the set time T is being measured again.

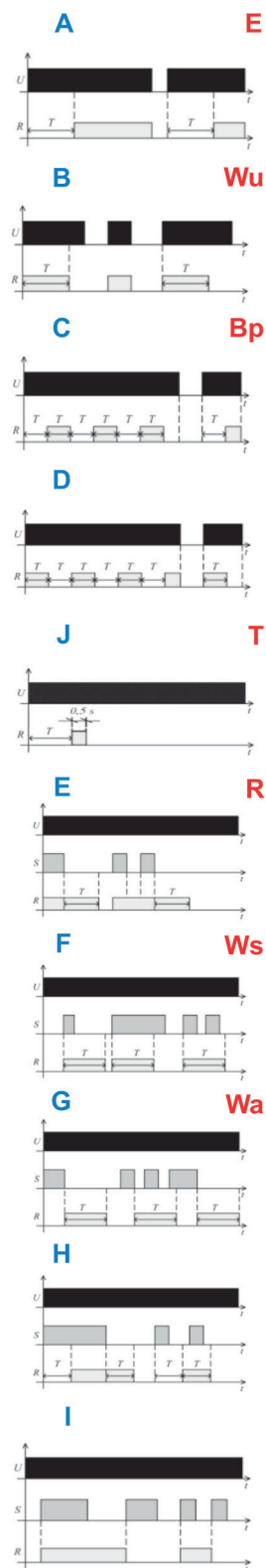
Single shot leading edge with control contact: The supply voltage U must be constantly applied to the time relay. After the control contact S has been closed, the operating relay R starts immediately and the set time T is being measured. After the set time T has lapsed, the operating relay R returns to the initial position. In course of measuring the T time, the control contact S may be closed and opened repeatedly with no impact upon the operating relay R. Only after the T time has lapsed, closing S will make the operating relay R operate and the T time will be measured.

Single shot trailing edge with control contact: The supply voltage U must be constantly applied to the time relay. Closing of the control contact S does not trigger the measurement of the time delay or operation of the operating relay R. Only opening of the control contact S causes the immediate operation of the operating relay R, and the set time T is being measured. After the T time has lapsed, the operating relay R returns to the initial position. In course of measuring the T time, the control contact S may be closed and opened repeatedly with no impact upon the output relay. Only after the T time has lapsed, closing and opening of S will make the operating relay R operate and the T time will be measured.

ON and OFF delay with control contact: The supply voltage U must be constantly applied to the time relay. After the control contact S has been closed, the set time T is being measured and when it lapses the operating relay R is switched on. On opening of the control contact S the set time T is measured again, and after the time has lapsed, the operating relay R is switched off. In case the time of closing the control contact S is shorter than the set time delay T, the operating relay R shall start operation after the set delay has lapsed, and it will continue to operate for the T time. In course of the operation of the R relay, closing of the control contact S does not affect the function.

Bistable relay leading edge with control contact: Each closing of the control contact S changes the operating relay status to the opposite one (a feature of a bistable relay).

Permanent switching ON and OFF: The functions ON and OFF are selected with the TIME potentiometer. In the ON function the normally open contacts are closed all the time whereas in the OFF function they are open. The position of the FUNC potentiometer is of no significance when the ON / OFF function is selected




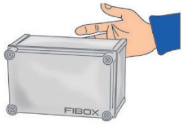


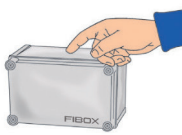


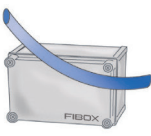









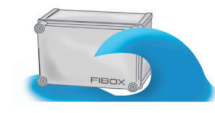







Dehn Product Applications Look Up Table - See pages 70-73 for all Dehn products

Europa Part Number	Description	Dehn Part Number and Description	
95110	4 Module Type ½ SPN Single phase TT/TN	951001 – Spark gap based protection module	951050 – Neutral Spark gap based protection module
951115	4 Module Type ½ SPN Single phase TT/TN + Alarm	951001 – Spark gap based protection module	951050 – Neutral Spark gap based protection module
951310	8 Module Type ½ Three phase TT/TN	951001 – Spark gap based protection module	951100 - Neutral Spark gap based protection module
951315	8 Module Type ½ Three phase TT/TN + Alarm	951001 – Spark gap based protection module	951100 - Neutral Spark gap based protection module
951200	4 Module Type ½ SPN Single phase TN	951001 – Spark gap based protection module	
951205	4 Module Type ½ SPN Single phase TN + Alarm	951001 – Spark gap based protection module	
951400	8 Module Type ½ TPN Three phase TNS	951001 – Spark gap based protection module	
951405	8 Module Type ½ Three phase TN + Alarm	951001 – Spark gap based protection module	
952110	2 Module Type 2 Single phase TT/TN	952010 – Modular varistor based protection module.	952050 – Neutral Spark gap based protection module.
952115	2 Module Type 2 Single phase TT + Alarm	952010 – Modular varistor based protection module.	952050 – Neutral Spark gap based protection module.
952310	4 Module Type 2 Three phase TT	952010 – Modular varistor based protection module.	952050 – Neutral Spark gap based protection module.
952315	4 Module Type 2 Three phase TT/TN + Alarm	952010 – Modular varistor based protection module.	952050 – Neutral Spark gap based protection module.
952200	2 Module Type 2 Single phase TN	952010 – Modular varistor based protection module.	
952205	2 Module Type 2 Single phase TN + Alarm	952010 – Modular varistor based protection module.	
952400	4 Module Type 2 Three phase TN	952010 – Modular varistor based protection module.	
952405	4 Module Type 2 Three phase TN + Alarm	952010 – Modular varistor based protection module.	
952070	1 Module Type 2 Single phase TN-C-S	952010 – Modular varistor based protection module.	
952090	1 Module Type 2 Single phase TN-C-S + Alarm	952010 – Modular varistor based protection module.	
952510	3 Module Type 2 1000V DC	952051 – Varistor based Protection module for DEHNguard M YPV SCI and DEHNguard S PV SCI	952041 - Varistor based Protection module for DEHNguard M YPV SCI and DEHNguard S PV SCI
952511	3 Module Type 2 600V DC	952053 - Varistor based Protection module for DEHNguard M YPV SCI and DEHNguard S PV SCI	952043 - Varistor based Protection module for DEHNguard M YPV SCI and DEHNguard S PV SCI
953200	1 Module Type 3 Single phase 25A	953010 - Protection module with integrated Y protection circuit	
953205	1 Module Type 3 Single phase 25A + Alarm	953010 - Protection module with integrated Y protection circuit	
953228	1 Module type 3 32A + Alarm	953010/S Protection module with integrated Y protection circuit	
953400	2 Module Type 3 Three phase 25A	953020 Four pole protection module with integrated protective circuit.	
953405	2 Module Type 3 Three phase 25A + Alarm	953020 Four pole protection module with integrated protective circuit.	

The IP and IK Classifications (used with the kind permission of Fibox Ltd)

FIRST DIGIT Protection against solid objects			SECOND DIGIT Protection against liquids			IK CODE Protection against mechanical impacts		
IP	TEST		IP	TEST		IK	TEST	
0		no protection	0		no protection	00		no protection
1		protected against solid objects up to 50 mm e.g. to 50 mm e.g. hands	1		protected against vertically falling drops of water	01-05		impact < 1 joule
2		protected against solid objects up to 12 mm e.g. fingers	2		protected against direct sprays of water up to 15° from the vertical	06		impact 1 joule
3		protected against solid objects over 2,5 mm (tools+ small wires)	3		protected against water sprayed from all directions - limited ingress permitted	07		impact 2 joule
4		protected against solid objects over 1 mm (tools+ small wires)	4		protected against water sprayed from all directions - limited ingress permitted	08		impact 5 joule
5		protected against dust - limited ingress permitted (no harmful deposit)	5		protected against low pressure jets of water from all directions - limited ingress permitted	09		impact 10 joule
6		totally protected against dust	6		protected against strong jets of water e.g. for use on shipdecks - limited ingress permitted	10		impact 20 joule
			7		protected against the effects of immersion between 15 cm and 1 m			
			8		protected against long periods of immersion under pressure			

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Enclosing innovations

2017 Catalogue Index

Symbols

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1. INTERPRETATION

1.1 Definitions

In these Conditions, the following definitions apply:

Business Day: a day (other than a Saturday, Sunday or public holiday) when banks in London are open for ordinary business.

Conditions: the terms and conditions set out in this document as amended from time to time in accordance with clause 10.6.

Contract: the contract between the Supplier and the Customer for the sale and purchase of the Goods in accordance with these Conditions.

Customer: the person or firm who purchases the Goods from the Supplier.

Debt: the sums outstanding in accordance with clause 6.6.

Force Majeure Event: has the meaning given in clause 9.

Goods: the goods (or any part of them) set out in the Order.

Order: the Customer's order for the Goods, as set out in the Customer's purchase order or as placed over the telephone, as to which may be substituted by the Supplier.

Specification: any specification for the Goods, which has been verified by the Supplier, or which has otherwise been specifically agreed in writing between the Supplier and the Customer, as referred to in clause 2.4.

Supplier: Europa Components & Equipment Plc (registered in England and Wales with company number 02646133).

1.2 Construction

In these Conditions, the following rules apply:

(a) A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).

(b) A reference to a party includes its personal representatives, successors or permitted assigns.

(c) A reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted.

(d) Any phrase introduced by the terms including, include, in particular or any similar expression shall be construed as illustrative and shall not limit the sense of the words preceding those terms.

(e) A reference to writing or written includes faxes and e-mails.

2. BASIS OF CONTRACT

2.1 These Conditions apply to the Contract to the exclusion of any other terms that the Customer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

2.2 The Order constitutes an offer by the Customer to purchase the Goods in accordance with these Conditions. The Customer shall ensure that the terms of the Order and any relevant Specification which has been specifically agreed in writing between the Supplier and the Customer are complete and accurate.

2.3 Unless the Order has been previously rejected by the Supplier, the Contract shall come into existence at 09:00 hours GMT on the second Business Day after the date the Supplier receives the Order (the first such Business Day, being the Business Day after the date of receipt), or, if earlier, at the time that delivery of the Goods is deemed to take place as referred to in clause 3.2. After the Contract has come into existence, the Order cannot be cancelled without the Supplier's written consent.

2.4 The Contract constitutes the entire agreement between the parties. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of the Supplier which is not set out in the Contract. Any samples, drawings, descriptive matter, specification, or advertising issued by the Supplier and any descriptions or illustrations contained in the Supplier's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract or any other contract between the Supplier and the Customer for the sale of the Goods. All product information relating to the Goods' description, specification or otherwise, must be verified with the Supplier's sales department before placing the Order, or specifically agreed in writing between the Supplier and the Customer, and specifically set out, or referred to, in the Order. The Supplier may discontinue or replace at any time without notice any Goods which appear in its catalogues or brochures.

2.5 A quotation for the Goods given by the Supplier shall not constitute an offer. A quotation shall only be valid for a period of 30 days from its date of issue.

3. DELIVERY

3.1 Where they are to be delivered by the Supplier's carrier, the Supplier shall deliver the Goods to the location set out in the Order or such other location as the parties may agree.

3.2 Delivery of the Goods shall be deemed to take place when, a representative of the Customer (or someone purporting to be the same) signs the Supplier's carrier's receipt or the Supplier's dispatch note or, the Goods are delivered to the Customer's carrier, as the case may be.

3.3 Any delay in the delivery of the Goods is approximate only, and the time of delivery is not of the essence.

The Supplier shall not be liable for any delay in delivery of the Goods that is caused by a Force Majeure event, or the Customer's failure to provide the Supplier with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods and any costs or expenses incurred by the Supplier in respect thereof will be charged to the Customer.

3.4 If the Supplier fails to deliver the Goods, its liability shall be limited to the costs and expenses incurred by the Customer in obtaining replacement goods of similar description and quality in the cheapest market available, less the price of the Goods. The Supplier shall have no liability for any failure to deliver the Goods to the extent that such failure is caused by a Force Majeure Event or the Customer's failure to provide the Supplier with adequate delivery instructions or any other instructions that are relevant to the supply of the Goods.

3.5 Unless the Customer clearly specifies otherwise in the Order, the Supplier may deliver the Goods by instalments, which shall be invoiced and paid for separately. Each instalment shall constitute a separate Contract. Any delay in delivery or defect in an instalment shall not entitle the Customer to cancel any other instalment.

3.6 Subject to clause 4.2(a), any query relating to an Order must be raised with the Supplier within 10 Business Days of delivery of the Goods.

4. QUALITY

4.1 The Supplier warrants that on delivery and for a period of 12 months from the date of delivery (warranty period), the Goods shall:

(a) conform in all material respects with their description and any applicable Specification; and

(b) be free from material defects in design, material and workmanship.

4.2 Subject to clause 4.5, the Supplier shall, at its option, repair or replace the defective Goods, or refund the price of the defective Goods in full provided that:

(a) the Customer gives notice in writing to the Supplier, within 10 days from the date of delivery where it would be apparent on a reasonable inspection of the Goods that some or all of them do not comply with the warranty set out in clause 4.1; and otherwise within a reasonable period (which in any event must be during the warranty period) after it becomes apparent that some or all of the Goods do not comply with the warranty set out in clause 4.1; and

(b) the Supplier is given a reasonable opportunity of examining such Goods; and

(c) the Customer, as required by the Supplier, either, returns such Goods to the Supplier's place of business at the Customer's cost or, where agreed in advance, the Supplier's carrier collects the same at the Supplier's expense. If the Supplier agrees to collect the Goods and the Customer fails to make the same available to the Supplier's carrier for collection, the charge for subsequently collecting the same will be borne by the Customer if the Goods are collected, and the Supplier subsequently determines that they do not breach the warranty set out in clause 4.1, the Customer will reimburse the Supplier on demand the cost of collecting them. Any Goods that are returned or offered for collection must be accompanied by a return number, to be obtained from the Supplier before they are returned or collected, as the case may be.

4.3 If any Goods are returned to the Supplier without the Supplier's prior authority, the Supplier will be entitled to charge the Customer a handling charge of 25% of the invoice value of the Goods that have been returned.

4.4 If any Good or product is returned to or collected by the Supplier, which has not been supplied by the Supplier, then the Customer shall indemnify the Supplier on demand, and keep the Supplier so indemnified, against all costs, expenses, charges, fees, liabilities, claims or otherwise, relating thereto, including those relating to its collection, storage and/or W.E.E disposal.

4.5 The Supplier shall not be liable for Goods' failure to comply with the warranty set out in clause 4.1 if:

(a) the Customer makes any further use of such Goods after giving notice in accordance with clause 4.2; or

(b) the defect arises because the Goods failed to follow the Supplier's oral or written instructions (including any manufacturer's instructions) as to the storage, commissioning, installation, use and maintenance of the Goods or (if there are none) good trade practice; or

(c) the defect arises as a result of the use of the Goods in any particular design, installation or configuration, unless the Specification clearly states that they are suitable for such use; or

(d) the Goods are used with incompatible goods or products or outside the permitted tolerances stated in the Specification;

(e) the defect arises as a result of the Supplier following any drawing, design or specification supplied by the Customer; or

(f) the Customer alters or repairs such Goods without the written consent of the Supplier; or

(g) the defect arises as a result of fair wear and tear, misuse, wilful damage, negligence, or abnormal storage or working conditions.

4.6 Except as provided in this clause 4, the Supplier shall have no liability to the Customer in respect of the Goods' failure to comply with the warranty set out in clause 4.1.

4.7 Except as set out in these Conditions, all warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

4.8 These Conditions shall apply to any repaired or replacement Goods supplied by the Supplier.

5. TITLE AND RISK

5.1 The risk in the Goods shall pass to the Customer on completion of delivery.

5.2 Title to the Goods shall not pass to the Customer until the Supplier has received payment in full (in cash or cleared cheque) for:

(a) the Goods; and

(b) all other sums which are or which become due to the Supplier for sales of the Goods or any other products to the Customer.

5.3 Until title to the Goods has passed to the Customer, the Customer shall:

(a) hold the Goods on a fiduciary basis as the Supplier's bailee;

(b) store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as the Supplier's property;

(c) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;

(d) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;

(e) notify the Supplier immediately if it becomes subject to any of the events listed in clause 7.2; and

(f) give the Supplier such information relating to the Goods as the Supplier may require from time to time, but the Customer may resell or use the Goods in the ordinary course of its business.

5.4 If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in clause 7.2, or the Supplier reasonably believes that any such event is about to happen and notifies the Customer accordingly, then, provided that the Goods have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy the Supplier may have, the Supplier may at any time require the Customer to deliver up the Goods and, if the Customer fails to do so promptly, enter any premises of the Customer or of any third party where the Goods are stored in order to recover them.

6. PRICE AND PAYMENT

6.1 The price of the Goods shall be the price set out in the Order, or, if no price is quoted, the price set out in the Supplier's published price list in force at the date the Order is placed, or to the extent applicable, in any relevant price arrangement specifically agreed between the Supplier and the Customer. The Supplier may change the prices in its published catalogues and brochures at any time without notice. The current price for the Goods must be checked with the Supplier before placing the Order. Unless specified, all prices quoted are in Pounds Sterling. For the avoidance of any doubt, any relevant settlement discount that has been agreed between the Supplier and the Customer will only apply to the extent that settlement is made by the Customer within the agreed period.

6.2 The price of the Goods is exclusive of the costs of transport (delivery).

6.3 The price of the Goods is exclusive of amounts in respect of value added tax which will be chargeable at the then prevailing rate (VAT). The Customer shall, on receipt of a valid VAT invoice from the Supplier, pay to the Supplier such additional amounts in respect of VAT as are chargeable on the supply of the Goods.

6.4 The Supplier may invoice the Customer for the Goods on or at any time after the completion of delivery. Any queries relating to invoices must be raised with the Supplier within 10 Business Days of the invoice date.

6.5 Unless alternative payment arrangements are agreed in writing in advance by the Supplier and the Customer, the Customer shall pay the invoice in full and in cleared funds within 30 days of the end of the calendar month in which the invoice is issued.

Time of payment is of the essence.

6.6 If the Customer fails to make any payment due to the Supplier under the Contract by the due date for payment (due date), then the Customer shall pay interest on the overdue amount at the rate of 8% per annum. Such interest shall accrue on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment. The Customer shall pay the interest together with the overdue amount.

6.7 The Customer shall pay all amounts due under the Contract in full without any deduction or withholding except as required by law. The Customer shall not be entitled to assert any credit, set-off or counterclaim against the Supplier in order to justify withholding payment of any such amount in whole or in part. The Supplier may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by the Customer against any amount payable by the Supplier to the Customer.

6.8 If payment is not made by the Due Date the Supplier may assign the overdue amount.

6.9 The Supplier shall be entitled to charge the Customer for any expenses reasonably incurred in connection with the assignment of the Contract (including the preparation of papers, information, and effecting the assignment) to any third party debt collection person pursuant to clause 10.1 and in connection with the recovery of the Debt subject to the provisions of clause 6.5.

7. CUSTOMER'S INSOLVENCY OR INCAPACITY

7.1 If the Customer becomes subject to any of the events listed in clause 7.2, or the Supplier reasonably believes that the Customer is about to become subject to any of them and notifies the Customer accordingly, then, without limiting any other right or remedy available to the Supplier, the Supplier may cancel or suspend all further deliveries under the Contract or under any other contract between the Customer and the Supplier, and without limiting any liability of the Customer, and all outstanding sums in respect of Goods delivered to the Customer shall become immediately due.

7.2 For the purposes of clause 7.1, the relevant events are:

(a) the Customer suspends, or threatens to suspend, payment of its debts or is unable to pay its debts as they fall due or admits inability to pay its debts or (being a company) is deemed unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986, or (being an individual) is deemed either unable to pay its debts or as having no reasonable prospect of so doing, in either case, within the meaning of section 188 of the Insolvency Act 1986, or (being a partnership) has any partner to whom any of the foregoing apply;

(b) the Customer commences negotiations with all or any class of its creditors with a view to rescheduling any of its debts, or makes a proposal for or enters into any compromise or arrangement with its creditors; or

(c) (being an individual) the Customer is the subject of a bankruptcy petition or order; or

(d) a creditor or encumbrancer of the Customer attaches, or takes possession of, or a distress, execution, sequestration or other such process is levied or enforced on or sued against, the whole or any part of its assets and such attachment or process is not discharged within 14 days;

(e) (being a company) an application is made to court, or an order is made, for the appointment of an administrator or if a notice of intention to appoint an administrator is given or if an administrator is appointed over the Customer; or

(f) the Customer is a creditor or charge holder over the assets of the Customer has become entitled to appoint or has appointed an administrative receiver; or

(g) a person becomes entitled to appoint a receiver over the assets of the Customer or a receiver is appointed over the assets of the Customer; or

(h) any event occurs, or proceeding is taken, with respect to the Customer in any jurisdiction to which it is subject that has an effect equivalent or similar to any of the events mentioned in clause 7.2(a) to clause 7.2(g) (inclusive); or

(i) the Customer suspends, threatens to suspend, ceases or threatens to cease to carry on all or substantially the whole of its business; or

(j) the financial position of the Customer deteriorates to such an extent that in the opinion of the Supplier the capability of the Customer adequately to fulfil its obligations under the Contract has been placed in jeopardy.

(k) (being an individual) the Customer dies or, by reason of illness or incapacity (whether mental or physical), is incapable of managing his or her own affairs or becomes a patient under any mental health legislation.

8. LIMITATION OF LIABILITY

8.1 Nothing in these Conditions shall limit or exclude the Supplier's liability for:

(a) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors (as applicable); or

(b) fraud or fraudulent misrepresentation; or

(c) breach of the terms implied by section 12 of the Sale of Goods Act 1979; or

(d) defective products under the Consumer Protection Act 1987; or

(e) any matter in respect of which it would be unlawful for the Supplier to exclude or restrict liability.

8.2 Subject to clause 8.1:

(a) the Supplier shall not be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit or indirect or consequential loss arising under or in connection with the Contract including any losses that may result from a deliberate breach of the Contract by the Supplier's employees, agents or subcontractors; and

(b) the Supplier's total liability to the Customer in respect of all other losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, including losses caused by a deliberate breach of the Contract by the Supplier's employees, agents or subcontractors shall not exceed £5,000,000.

9. FORCE MAJEURE

The Supplier shall not be liable for any failure or delay in performing its obligations under the Contract to the extent that such failure or delay is caused by a Force Majeure Event. A Force Majeure Event means any event beyond the Supplier's reasonable control, which by its nature could not have been foreseen, or, if it could have been foreseen, was unavoidable, including strikes, lock-outs or other industrial disputes (whether involving its own workforce or a third party's), failure of energy sources or transport network, acts of God, war or threat of war, terrorism, sabotage, riot, civil commotion, insurrection, interference by civil or military authorities, requisition, restrictions, seizures, boycotts or embargoes of any kind or any other government or authority, import or export regulations or embargoes, national or international calamity, armed conflict, accident, malicious damage, breakdown of plant or machinery, nuclear, chemical or biological contamination, sonic boom, explosions, collapse of building structures, fires, floods, storms, earthquakes, loss at sea, epidemics or similar events, natural disasters or extreme adverse weather conditions, difficulties in obtaining raw materials, labour, fuel or parts of machinery, material breach of contract or other default of suppliers or subcontractors.

10. ASSIGNMENT AND SUBCONTRACTING

(a) The Supplier may at any time assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract.

(b) The Customer may not assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract without the prior written consent of the Supplier.

10.2 Notices

(a) Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to that party at its registered office (if it is a company) or its principal place of business (in any other case) or such other address as that party may have specified to the other party in writing in accordance with this clause, and shall be delivered personally, sent by pre-paid first-class post, recorded delivery, commercial courier, fax or e-mail.

(b) A notice or other communication shall be deemed to have been received: if delivered personally, when left at the address referred to in clause 10.2(a); if sent by pre-paid first-class post or recorded delivery at 9.00 am on the second Business Day after posting; if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed; or, if sent by fax or e-mail, one Business Day after transmission.

(c) The provisions of this clause shall not apply to the service of any proceedings or other documents in any legal action.

10.3 Severance

(a) If any court or competent authority finds that any provision of the Contract (or part of any provision) is invalid, illegal or unenforceable, that provision or part-provision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of the Contract shall not be affected.

(b) If any invalid, unenforceable or illegal provision of the Contract would be valid, enforceable and legal if some part of it were deleted, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable.

(c) A Waiver in writing of any right or remedy under the Contract is only effective if given in writing and shall not be deemed a waiver of any subsequent breach or default. No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or remedy.

(d) Third party rights. A person who is not a party to the Contract shall not have any rights under or in connection with it.

10.6 Variation. Any variation to the Contract, including the introduction of any additional terms and conditions, shall only be binding when agreed in writing and signed by the Customer and by an authorised representative of the Supplier.

10.7 Governing law and jurisdiction. The Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales.

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