



Now 5pm Cut Off for Standard Same Day Despatch!



Visit us on-line: [www.europacomponents.com](http://www.europacomponents.com)

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Call the sales office: 01582 692 440  
Technical direct line: 01582 692 444  
Fax the sales office: 01582 692 450

## Europa components Pricing....

Low Minimum  
Order Value Only

**£20** nett (+ Carriage)

The prices shown in this catalogue were correct at the time of going to press.

List prices can only be guaranteed if our suppliers do not have a price increase.

**Due to the volatile nature of the market in raw materials price changes may occur at very short notice.**

No liability can be accepted for the information given in this catalogue.

Technical information should be used as a guide only.

Please contact our sales department for advice and manufacturer's literature.

## Europa components Delivery Charges....

**Free  
Delivery**

for orders over **£100 nett**

There is a minimum goods order value of £20.00 nett (not including carriage).

**There is a delivery charge of £9.80 for all orders under £100.00 nett. (Standard Service 2-3 days)**

Orders received by **5.00pm** for ex-stock components are normally despatched same day.

**Guaranteed next day delivery is available at extra cost:**

- |                           |                 |
|---------------------------|-----------------|
| ✓ Standard Next Day ..... | <b>£14.00 *</b> |
| ✓ Pre 10.30 am .....      | <b>£23.00 *</b> |
| ✓ Saturday am .....       | <b>£39.50 *</b> |

**\* There is an additional £3.00 surcharge for deliveries direct to site.**

- NB:**
- Delivery to the Channel Islands, Scottish Islands, Isle of Man and countries outside of the UK - pricing on request (irrespective of order value).
  - Any discrepancy must be notified to Europa Components within 10 working days.
  - All returns must be accompanied by a returns number issued by the sales desk.
  - Pallet charges may apply to some orders.

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Europa Components understand the need for regular stock rotation and the introduction of new lines. Take advantage of our **Stock Cleanse Service**.

The following Terms and Conditions apply:

- 1) Only purchased from Europa, from our current range, in undamaged original packaging and in a saleable / useable condition.
- 2) Been purchased and delivered within 12 months of Cleanse request.
- 3) 25% handling charge applies or a 2 for 1 replacement order service available. Both options based on the original order costs.
- 4) Cleanse items must be accompanied with their original invoice and returns reference number.
- 5) Returned at your own cost to our warehouse within 5 working days of agreement, please provide tracking details.

Please contact our sales team for further details.

**All stock cleanses are subject to handling terms as set out in the Europa Components standard terms and conditions 4.2 ©.**



Scan the QR code for a map of our location and throughout the catalogue for technical data....

- ✓ **Low Minimum Order Still Only £20 net**  
Help when you only need a small order.
- ✓ **Carriage paid orders from Only £100 net**
- ✓ **5pm cut off** for standard same day despatch
- ✓ **Order tracking** -  
Keep up to date with real time status of your order.



- ✓ **Europa Display Pack**  
Control gear products in attractive re-sealable Clam Packaging



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<http://www.europacomponents.com>

- ✓ **Secure Online Ordering**



- ✓ **Large stockholdings** of most popular lines for next day delivery.
- ✓ Order last day of the month for next day delivery with next month invoice!
- ✓ **Technical Helpline** - Call our team of expert engineers on: **01582 692 444**

- ✓ **Direct to site deliveries**



- ✓ **Promotional Items and Support**

Including: Trade Counter Mats, Point of Sale Display Boards, Hats, Pens, Note Pads, Bespoke Flyers, Technical Training for your Staff and more...



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## Purpose Built Solutions from Europa Components...



Europa Components have been successfully supplying electrical products for the last 40 years, with electrical distribution and control gear at the heart of the business.

As a family concern, competing with multi-nationals, our success has resulted from a concentration on meeting customer needs and being quicker to react to changing market trends.

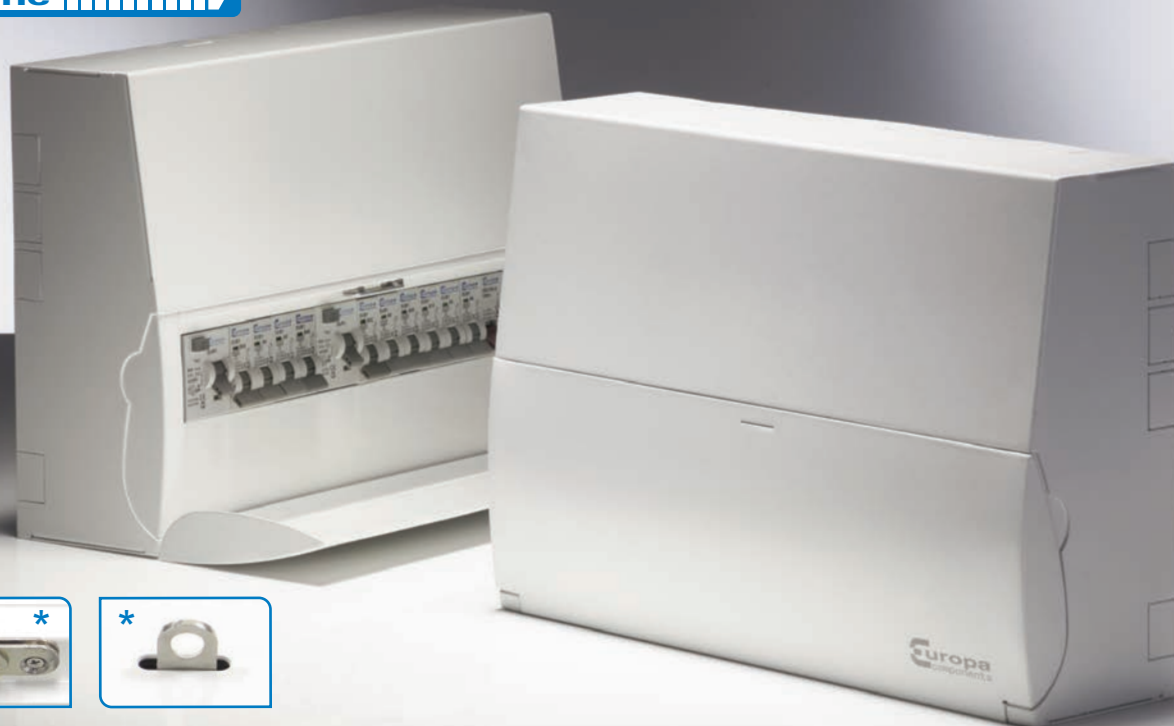
One major success has been our rapidly growing assembly facility, supplying ones, twos or small batches of bespoke special products.

After just a couple years of operation, 1,000 different "special" products have been assembled at our HQ in Luton, with £0.5m of turnover in the last year.

Assembly working space is being expanded to 4,000 sq ft and can now offer a wide selection of services to adapt current products to meet individual customer requirements. eg different configurations of push buttons or variants of contactors in enclosures.

For more information, contact sales on **01582 692440**.



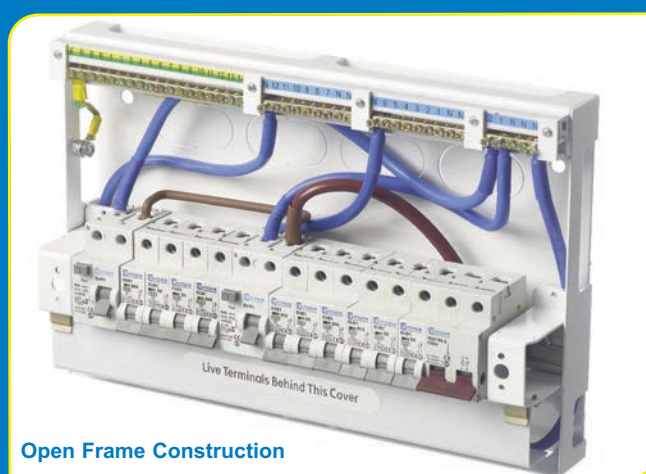


## High Grade Europa E-Line Metal Clad Consumer Units The Europa Components Solution to Amendment 3

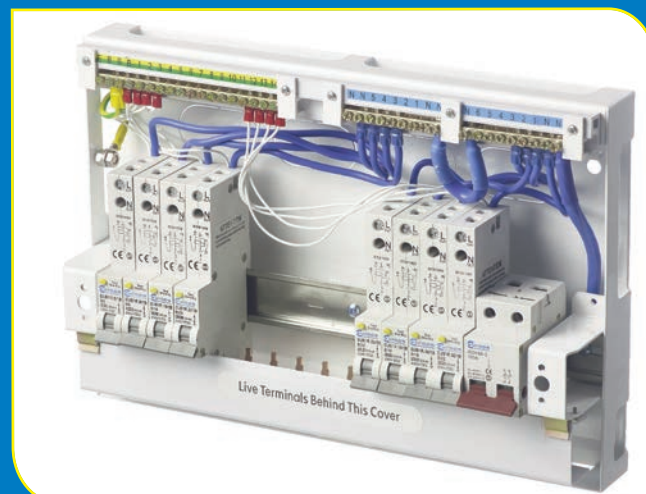
The Europa Components **E-Line** range of **Amendment 3 Compliant** consumer units have been aesthetically designed for installation in domestic households.

Manufactured entirely from metal the enclosure offers a greater level of safety and protection against the risk of fire in accordance with amendment 3 of the **IET Wiring regulations**.

- ✓ Non-combustible
- ✓ Attractive Design
- ✓ Amendment 3 Compliant
- ✓ Open Frame Construction for Ease of Wiring
- ✓ Lid with Pad-lockable Magnetic Latch \*
- ✓ Cut-outs Suitable for 35x25mm Cable Ducting
- ✓ Fully Loaded Options Available



Open Frame Construction





## Consumer Units

### Metal Clad Consumer Units

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



**CE & SEMKO Certified**

IP40 Rating / Earth and Neutral Busbars Included  
Drop Down Pad-lockable Lid with Magnetic Latch  
Large Enclosure for Easy Wiring

Part Number	Description	Price	Per
ELCU16SP17/80	16 Module 10 Free Ways 100A Switch + 2 x 80A RCD	£143.76	1
ELCU20SP17/80	20 Module 14 Free Ways 100A Switch + 2 x 80A RCD	£153.76	1
ELCU20SP17/80-SPD	20 Module 12 Free Ways 100A Switch + 2 x 80A RCD + SPD with MCB	£185.00	1

**E-Line 3rd Amendment Switched Incomer Box Qty 4**



**CE & SEMKO Certified**

IP40 Rating / Earth and Neutral Busbars Included  
Drop Down Pad-lockable Lid with Magnetic Latch  
Large Enclosure for Easy Wiring

Part Number	Description	Price	Per
ELCU16M	100A Switch 14 Free Ways	£89.47	1
ELCU20M	100A Switch 18 Free Ways	£100.00	1
ELCU20M-SPD	100A Switch + SPD with MCB 16 Free Ways	£127.62	1

E-Line Consumer Unit Dimensions (mm)			
Type	Height	Width	Depth
ELCU16	249mm	365mm	107mm
ELCU20	249mm	437mm	107mm

**E-Line 3rd Amendment RCCB Incomer Box Qty 4**



**CE & SEMKO Certified**

IP40 Rating / Earth and Neutral Busbars Included  
Drop Down Pad-lockable Lid with Magnetic Latch  
Large Enclosure for Easy Wiring

Part Number	Description	Price	Per
ELCU16R	80A RCD 14 Free Ways	£110.53	1
ELCU20R	80A RCD 18 Free Ways	£118.43	1
ELCU20R-SPD	80A RCD + SPD with MCB 16 Free Ways	£149.99	1

**E-Line 3rd Amendment Split Load Box Qty 4**



**CE & SEMKO Certified**

IP40 Rating / Earth and Neutral Busbars Included  
Drop Down Pad-lockable Lid with Magnetic Latch  
Large Enclosure for Easy Wiring

Part Number	Description	Price	Per
ELCU16SP	100A Switch + 80A RCD 6 + 6 Split	£123.68	1
ELCU20SP	100A Switch + 80A RCD 8 + 8 Split	£135.52	1
ELCU20SP-SPD	100A Switch + 80A RCD + SPD with MCB 7 + 7 Split	£163.16	1

**See pages 15-19 for MCBs, RCDs and Accessories.**



EUBPADLOCK	Padlock (3 per pack)	£9.46	Pack
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### Metal Clad 17th Edition (BS 7671) Box Qty 4



**CE & SEMKO Certified**

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	£127.51	1
MECU18SP17/80	18 Module 12 Free Ways 100A Switch + 2 x 80A RCD	£140.00	1

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



**CE & SEMKO Certified**

IP40 Rating / Earth & Neutral Terminal Bars Included / Lift Up Stay Put Lid / Large Enclosure for Easy Wiring

Part Number	Description	Price	Per
MECU10SP/80	100A Switch + 80A RCCB 3 + 3 Split	£92.12	1
MECU14SP/80	100A Switch + 80A RCCB 5 + 5 Split	£99.65	1

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



**CE & SEMKO Certified**

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	£54.32	1
MECU10M	100A Switch 8 Free Ways	£62.35	1
MECU14M	100A Switch 12 Free Ways	£66.56	1

### Metal Clad (Consumer Unit) Empty Enclosures



Earth & Neutral Terminal Bars Included / Lift Up Stay Put Lid  
Large Enclosure For Easy Wiring (Busbar sold separately see page11)

Part Number	Description	Price	Per
MECU8	8 Way Empty Enclosure	£44.57	1
MECU10	10 Way Empty Enclosure	£50.06	1
MECU14	14 Way Empty Enclosure	£57.10	1

### Metal Clad RCCB Incomer Box Qty 6



**CE & SEMKO Certified**

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	£72.60	1
MECU10R	80A RCD 8 Free Ways	£79.55	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
MECU18	240 mm	410 mm	105 mm

**i** see pages 15-19 for our range of **MCBs, RCDs and Accessories.**



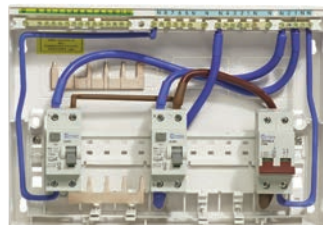
## ABS Consumer Units



- High quality to meet all current standards
- Flexible busbar configurations
- Generous internal wiring space
- Surge protection available
- Options up to 18 useable ways
- Multiple knock-outs top & bottom for trunking

**Fully Loaded**  
boards available  
Please ask

### 17th Edition (BS7671) **Box Qty 8 (4 for 21 & 24SP)**



**CE & SEMKO Certified BS7671 17th Edition Boards**  
IP40 Rating / Flame Retardant ABS Enclosure / Earth & Neutral Busbars Included / Quick Release Cover with Transparent Drop Down Lid

Part Number	Description	Price	Per
ECU14SP17/63	14 Module 8 Free Ways 100A Switch + 2 x 63A RCCB	£67.30	1
ECU18SP17/63	18 Module 12 Free Ways 100A Switch + 2 x 80A RCCB	£75.20	1
ECU14SP17/80	14 Module 8 Free Ways 100A Switch + 2 x 80A RCCB	£75.22	1
① ECU16SP17/80	16 Module 10 Free Ways 100A Switch + 2 x 80A RCCB	£70.65	1
ECU18SP17/80	18 Module 12 Free Ways 100A Switch + 2 x 80A RCCB	£88.15	1
ECU21SP17/80	21 Module 15 Free Ways 100A Switch + 2 x 80A RCCB	£111.70	1
② ECU24SP17/80	24 Module 18 Free Ways 100A Switch + 2 x 80A RCCB	£125.40	1

**NB:** See page 10 for dimensions



① **ECU16SP17/80:**  
With metal din rail and extra height for easier cable entry.



② **ECU24SP17/80**  
Double level 17th edition consumer unit.

### Switched Incomer **Box Qty 8 (4 for 21M)**



**Europa**  
components

#### CE & SEMKO Certified

IP40 Rating / Flame Retardant ABS Enclosure / Earth & Neutral Terminal Bars Included / Quick Release Cover with Transparent Drop Down Lid

Part Number	Description	Price	Per
ECU8M	100A 6 Free Ways	£26.78	1
ECU10M	100A 8 Free Ways	£27.65	1
ECU14M	100A 12 Free Ways	£33.97	1
ECU18M	100A 16 Free Ways	£49.12	1
ECU21M	100A 19 Free Ways	£58.33	1

✓ For use with **RCCBs** to meet 17th edition requirements.

### RCCB Incomer **Box Qty 8**



**Europa**  
components

#### CE & SEMKO Certified

IP40 Rating / Flame Retardant ABS Enclosure / Earth & Neutral Busbars Included / Quick Release Cover with Transparent Drop Down Lid

Part Number	Description	Price	Per
ECU8R	80A RCD 6 Free Ways	£37.36	1
ECU10R	80A RCD 8 Free Ways	£42.45	1
ECU14R	80A RCD 12 Free Ways	£45.70	1
ECU10R63	63A RCD 8 Free Ways	£39.66	1
ECU14R63	63A RCD 12 Free Ways	£41.85	1

✓ Ideal for extending 17th Edition consumer units when used with other split load boards.

### Split Load

Box Qty 8



#### CE & SEMKO Certified

IP40 Rating / Flame Retardant ABS Enclosure  
Earth & Neutral Terminal Bars Included  
Quick Release Cover with Transparent Drop Down Lid

Part Number	Description	Price	Per
ECU-10SP/63	100A SW + 63A RCCB 3 + 3 Split	£43.75	1
ECU-10SP/80	100A SW + 80A RCCB 3 + 3 Split	£47.10	1
ECU-14SP/80	100A SW + 80A RCCB 5 + 5 Split	£50.22	1
ECU-18SP/80	100A SW + 80A RCCB 7 + 7 Split	£62.07	1

✓ For use with MCBs and RCBOs to meet 17th Edition requirements.

#### ABS Consumer Unit Dimensions Table (mm)

Type	Height	Width	Depth
ECU-8	230.50mm	215.60mm	120mm
ECU-10	230.50mm	253.60mm	120mm
ECU-14	230.50mm	327.50mm	120mm
ECU-16	254mm	362.50mm	120mm
ECU-18	230.50mm	397.50mm	120mm
ECU-21	230.50mm	451mm	120mm
ECU-24	460mm	290mm	120mm

## Consumer Unit Accessories

### Busbar for Consumer Units - Spare Part



Suitable for all consumer units when the application requires the bar to be cut to suit a specific number of ways.

Part Number	Description	Price	Per
ECUBB10S	100A Spare Busbar 6 MCB Ways	£2.30	1
ECUBB14S	100A Spare Busbar 10 MCB Ways	£3.35	1
ECUBB18S	100A Spare Busbar 14 MCB Ways	£3.50	1

#### Consumer Unit Spare Busbar Compatibility Table

ECUBB10S (6 MCB Ways)	Can be used with	ECU10SP/80 / ECU8M / ECU8R ECU14SP17/80 / ECU18SP17/80
ECUBB14S (10 MCB Ways)	Can be used with	ECU14SP17/80 / ECU10M / ECU24SP17/80 (x2)
ECUBB18S (14 MCB Ways)	Can be used with	ECU16SP/80 / ECU18SP/80 ECU14M / ECU14R

## Garage & Shower Units

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



Perfect for  
**Photovoltaic**  
(PV) Installations

#### 3rd Amendment Ready, CE and SEMKO Certified

IP44 Rating / EN 60898 & EN 61008 Compliant / Metal Clad Enclosure with Metal Lid / Earth & Neutral Terminals Included  
Height 240mm / Width 160mm / Depth 85mm (106mm inc lid)

Part Number	Description	Price	Per
GRG16M	63A RCCB + 6A & 16A MCB	£45.38	1
GRG32M	63A RCCB + 6A & 32A MCB	£45.38	1

### ABS Garage Units (5 Module Enclosure) Box Qty 12



Perfect for  
**Photovoltaic**  
(PV) Installations



ⓘ We can offer Garage & Shower Units with other variations of RCCBs & MCBs on request. Price on application.

#### CE Approved & SEMKO Certified

IP55 Rating / EN 60898 & EN 61008 Compliant / ABS Enclosure with Polycarbonate Lid / Earth & Neutral Terminals Included  
Dimensions: Height 175mm / Width 130mm / Depth 115mm

Part Number	Description	Price	Per
GRG16E	40A RCCB + 6A & 16A MCB	£45.38	1
GRG32E	63A RCCB + 6A & 32A MCB	£45.38	1

### ABS Shower Units (4 Module Enclosure) Box Qty 20



#### CE & SEMKO Certified

IP40 Rating / SU40 EN 61009 Compliant  
SU50 EN 60898 & EN 61008 Compliant / ABS Enclosure with Polycarbonate Lid / Earth & Neutral Terminals Included  
Dimensions: Height 200mm / Width 112mm / Depth 92mm

Part Number	Description	Price	Per
① SU40E	40A RCBO	£38.30	1
② SU50E	50A MCB + 63A RCCB	£38.30	1



## Empty Distribution Enclosures

### Metal Clad Modular Enclosures



CE Certified

**1 MEC2:** IP20 Rating  
20mm Knock-outs (1 top & 1 bottom)  
Complete with Earth Terminal & Din Rail

**2 MEC4:** IP20 Rating  
2 x 20mm + 2 x 25mm Knock-outs (top & bottom)  
Complete with Earth Terminal & Din Rail

**3 MEC4M - New Line - Amendment 3 Compliant:** IP40 Rating  
2 x 25mm Knock-outs (top & bottom)  
Keyhole slots for easy mounting  
Complete with Earth Terminal & Din Rail

Neutral Cable  
Sold Separately  
See Page 14

Part Number	Description	Price	Per
<b>1</b> MEC2	2 Module (Open Front)	£11.45	1
<b>2</b> MEC4	4 Module (Open Front)	£14.33	1
<b>3</b> MEC4M	4 Module (with Metal Lid)	£25.20	1

Metal Clad Modular Enclosure Dimensions (mm)			
Part No.	Height	Width	Depth
<b>MEC2</b>	145mm	80mm	62mm
<b>MEC4</b>	225mm	115mm	62mm
<b>MEC4M</b>	240mm	130mm	85mm (105mm inc lid)

### ABS Open Front Enclosure (IP20 Rating)



CE Certified

Part Number	Description	Price	Per
<b>1</b> EC2	2 Module (Open Front)	£2.26	1
<b>2</b> EC4	4 Module (Open Front)	£2.92	1
<b>3</b> EC6	6 Module (Open Front)	£5.06	1



### Insulated Distribution Enclosures (IP65)



CE Certified

IP65 Rating  
ABS Enclosure with Polycarbonate Lid  
Earth and Neutral Terminals Included  
Complete with Din Rail  
Can be used with RCBOs

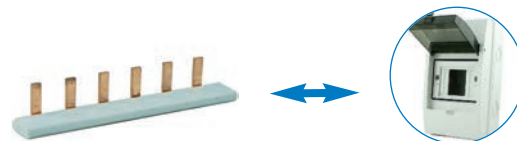
**Please note:** the \* ECW24 double height is not suitable for use with RCBOs



Part Number	Description	Price	Per
ECW4	4 Module Distribution Box	£12.80	1
ECW5	5 Module Distribution Box	£15.36	1
ECW6	6 Module Distribution Box	£17.10	1
ECW8	8 Module Distribution Box	£21.15	1
ECW12	12 Module Distribution Box	£25.45	1
ECW18	18 Module Distribution Box	£35.25	1
ECW24	24 Module Distribution Box	£49.40	1

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

### Spare Busbars for Distribution Enclosures

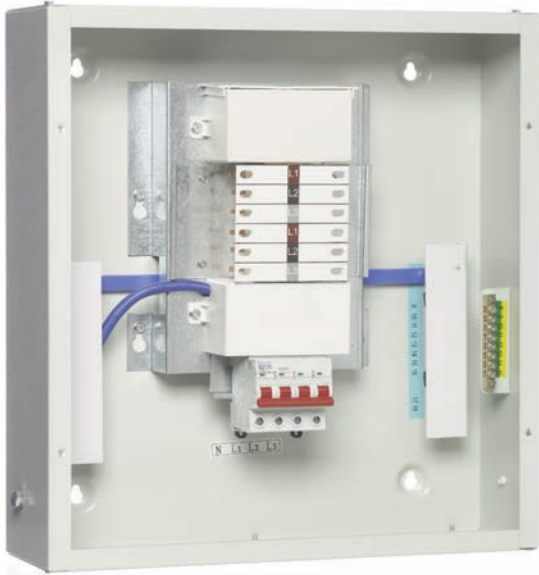


For use with the ECW range of Distribution Enclosures.

Use 2 x ECWBB12 for the ECW24 double height 24 module enclosure.

Part Number	Description	Price	Per
ECWBB4	100A 4 Way Busbar	£1.65	1
ECWBB6	100A 6 Way Busbar	£2.54	1
ECWBB5	100A 5 Way Busbar	£2.20	1
ECWBB8	100A 8 Way Busbar	£3.30	1
ECWBB12	100A 12 Way Busbar	£4.85	1
ECWBB18	100A 18 Way Busbar	£7.20	1

Price includes pre-wired **125A 4P Isolator**  
Maximum incomer terminal capacity 50mm<sup>2</sup>

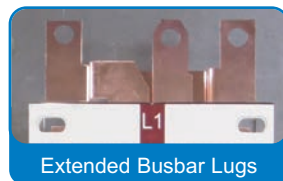
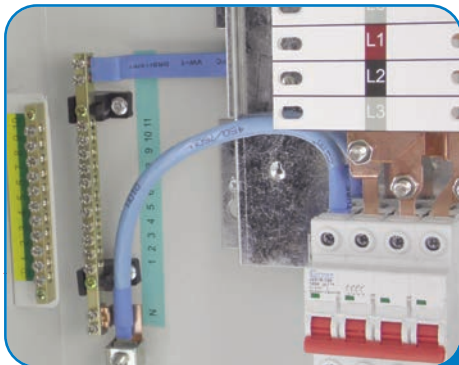


- ✓ IP20 rated incomer & neutral bar connections
- ✓ 125A 4 pole isolator fitted as standard giving isolation to 3 phase & neutral
- ✓ 100A RCCB incomer can be fitted if required  
**See page 19** (EUR1100.30/4, EUR1100.100/4, EUR1100.300/4)
- ✓ Robust epoxy coated steel enclosure (RAL 7035)
- ✓ Available 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
- ✓ Easily removable top & bottom 2mm thick gland plates
- ✓ Incoming isolator capacity: 50mm<sup>2</sup>
- ✓ M8 earth bolts suitable for lugs

### 17th Edition Amendment 3 Compliant:

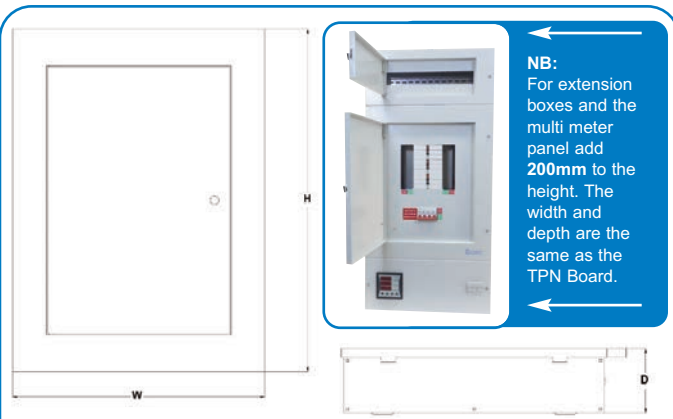
Our TPN boards are often used in single phase installations where a large number of out going ways are required. This solution is achieved by combining our single phase kit (TPN1P - page 14) with our popular 6kA type B RCBOs (page 18).

Key lock for **safety & security**



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 outgoing MCB making wiring simple, safe and clear...

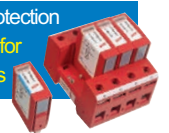


TPN 3 Phase Board Dimensions (mm)			
Part Number (no. of modules)	H	W	D
TPN04 (12 Way)	507	465	130
TPN06 (18 Way)	561	465	130
TPN08 (24 Way)	615	465	130
TPN10 (30 Way)	669	465	130
TPN12 (36 Way)	723	465	130
TPN16 (48 Way)	831	465	130
TPN18 (54 Way)	885	465	130

Extension boxes & meter panels available...



Ideal for Surge Protection  
See pages 22-26 for our range of SPDs



Scan for instructions



Scan for video

## 3 Phase Distribution Boards

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



CE Certified

EN 60439-3

Pre-wired with 125A 4 Pole Isolator

Blank panels 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	£144.70	1
TPN06	18 Way 125A Switch	£164.50	1
TPN08	24 Way 125A Switch	£193.20	1
TPN10	30 Way 125A Switch	£226.75	1
TPN12	36 Way 125A Switch	£249.30	1
TPN16	48 Way 125A Switch	£295.35	1
TPN18	54 Way 125A Switch	£318.50	1



## 3 Phase Board Accessories

TPN Board Extension Boxes

Part Number	Description	Price	Per
① TPNA16W	TPN Type A 16 Way Enclosure	£43.20	1
② TPNEB	TPN Extension Box	£26.70	1
③ TPNMM	TPN Multi Meter Panel	£320.00	1



① Part Number: **TPNA16W**



② Part Number: **TPNEB**



③ Part Number: **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 is 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.

### 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



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

Part Number	Description	Price	Per
TPA8	Empty Enclosure 8 Module	£46.26	1
TPA12	Empty Enclosure 12 Module	£50.50	1
TPA16	Empty Enclosure 16 Module	£58.80	1
TPA18	Empty Enclosure 18 Module	£63.40	1
TPA8M	100A Switch 6 Free Ways	£52.40	1
TPA12M	100A Switch 10 Free Ways	£61.00	1
TPA16M	100A Switch 14 Free Ways	£65.45	1
TPA18M	100A Switch 16 Free Ways	£70.10	1

## Accessories for Distribution Boards

### 4 Module ABS Open Front Enclosure IP40



**Europa  
components**

Secure Fit Screw Sealed Lid /  
Security Screw with Wire Lock Off Option

Part Number	Description	Price	Per
EC4T	H: 150 x W: 100 x D: 70mm	£17.00	1

### Miscellaneous Accessories for Distribution Boards



See pages  
6 - 10  
for our full  
range of  
Consumer  
Units  
including the  
new E-Line  
Amendment 3  
Boards

**Europa  
components**

#### Single Phase Kit:

Warning Labels (x 2)  
Numbered Way ID Labels 1-54 (x2)  
Busbar (x1) Busbar Strap (x1)

#### Spare Labels for Single Phase Kit:

Warning Labels (x 2) Numbered Way ID Labels 1-54 (x2)

#### Neutral Cables:

Spare cables to suit IP65 ECW Distribution Enclosures.

#### 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.

#### Blanking Modules:

Blanking Plates for use in Consumer Units, Garage Units & Shower  
Units.

Part Number	Description	Price	Per
① TPN1P	Single Phase Kit for TPN	£13.98	1
② TPN1LABEL	Spare Labels for Single Phase Kit	£3.03	1
③ ECWNT10230	Neutral cable 10 x 230mm	£2.50	1
③ ECWNT16230	Neutral cable 16 x 230mm	£3.50	1
④ ECUBPD	1 Module Blank	£0.77	1
⑤ ECUBP	Module Blanks 2 x 4 Strips	£0.77	1



## Miniature Circuit Breakers, Residual Current Devices & Accessories

### 6kA MCB B Curve

1 Pole MCB 6kA B Curve

Box Qty 12



CE & SEMKO Certified  
6kA Rated / EN 60898



Part Number	Description	Price	Per
EUB16B	6 Amps	£3.91	1
EUB110B	10 Amps	£3.91	1
EUB116B	16 Amps	£3.91	1
EUB120B	20 Amps	£3.91	1
EUB125B	25 Amps	£3.91	1
EUB132B	32 Amps	£3.91	1
EUB140B	40 Amps	£3.91	1
EUB150B	50 Amps	£3.91	1
EUB163B	63 Amps	£3.91	1

### 6kA MCB C Curve

1 Pole MCB 6kA C Curve

Box Qty 12



CE & SEMKO Certified  
6kA Rated / EN 60898



Part Number	Description	Price	Per
EUB16C	6 Amps	£4.43	1
EUB110C	10 Amps	£4.43	1
EUB116C	16 Amps	£4.43	1
EUB120C	20 Amps	£4.43	1
EUB125C	25 Amps	£4.43	1
EUB132C	32 Amps	£4.43	1
EUB140C	40 Amps	£4.43	1
EUB150C	50 Amps	£4.43	1
EUB163C	63 Amps	£4.43	1

### 10kA MCB B Curve

1 Pole MCB 10kA B Curve

Box Qty 12



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC1P1B	1 Amp	£7.65	1
EUC1P2B	2 Amps	£7.65	1
EUC1P4B	4 Amps	£7.65	1
EUC1P6B	6 Amps	£7.65	1
EUC1P10B	10 Amps	£7.65	1
EUC1P16B	16 Amps	£7.65	1
EUC1P20B	20 Amps	£7.65	1
EUC1P25B	25 Amps	£7.65	1
EUC1P32B	32 Amps	£7.65	1
EUC1P40B	40 Amps	£7.65	1
EUC1P50B	50 Amps	£7.65	1
EUC1P63B	63 Amps	£7.65	1

3 Pole MCB 10kA B Curve

Box Qty 4



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC3P1B	1 Amp	£23.46	1
EUC3P2B	2 Amps	£23.46	1
EUC3P6B	6 Amps	£23.46	1
EUC3P10B	10 Amps	£23.46	1
EUC3P16B	16 Amps	£23.46	1
EUC3P20B	20 Amps	£23.46	1
EUC3P25B	25 Amps	£23.46	1
EUC3P32B	32 Amps	£23.46	1
EUC3P40B	40 Amps	£23.46	1
EUC3P50B	50 Amps	£23.46	1
EUC3P63B	63 Amps	£23.46	1

Terminal Capacity: 1P, 2P, 3P 6kA & 10kA MCBs Cable up to 25mm<sup>2</sup>

### 10kA MCB C Curve

1 Pole MCB 10kA C Curve

Box Qty 12



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC1P1C	1 Amp	£7.14	1
EUC1P2C	2 Amps	£7.14	1
EUC1P4C	4 Amps	£7.14	1
EUC1P6C	6 Amps	£7.14	1
EUC1P10C	10 Amps	£7.14	1
EUC1P16C	16 Amps	£7.14	1
EUC1P20C	20 Amps	£7.14	1
EUC1P25C	25 Amps	£7.14	1
EUC1P32C	32 Amps	£7.14	1
EUC1P40C	40 Amps	£7.14	1
EUC1P50C	50 Amps	£7.14	1
EUC1P63C	63 Amps	£7.14	1

3 Pole MCB 10kA C Curve

Box Qty 4



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC3P1C	1 Amp	£22.44	1
EUC3P2C	2 Amps	£22.44	1
EUC3P4C	4 Amps	£22.44	1
EUC3P6C	6 Amps	£22.44	1
EUC3P10C	10 Amps	£22.44	1
EUC3P16C	16 Amps	£22.44	1
EUC3P20C	20 Amps	£22.44	1
EUC3P25C	25 Amps	£22.44	1
EUC3P32C	32 Amps	£22.44	1
EUC3P40C	40 Amps	£22.44	1
EUC3P50C	50 Amps	£22.44	1
EUC3P63C	63 Amps	£22.44	1

2 Pole MCB 10kA C Curve

Box Qty 6



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC2P1C	1 Amp	£16.32	1
EUC2P2C	2 Amps	£16.32	1
EUC2P4C	4 Amps	£16.32	1
EUC2P6C	6 Amps	£16.32	1
EUC2P10C	10 Amps	£16.32	1
EUC2P16C	16 Amps	£16.32	1
EUC2P20C	20 Amps	£16.32	1
EUC2P25C	25 Amps	£16.32	1
EUC2P32C	32 Amps	£16.32	1
EUC2P40C	40 Amps	£16.32	1
EUC2P50C	50 Amps	£16.32	1
EUC2P63C	63 Amps	£16.32	1

### 10kA MCB D Curve

1 Pole MCB 10kA D Curve

Box Qty 12



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC1P1D	1 Amp	£9.18	1
EUC1P2D	2 Amps	£9.18	1
EUC1P4D	4 Amps	£9.18	1
EUC1P6D	6 Amps	£9.18	1
EUC1P10D	10 Amps	£9.18	1
EUC1P16D	16 Amps	£9.18	1
EUC1P20D	20 Amps	£9.18	1
EUC1P25D	25 Amps	£9.18	1
EUC1P32D	32 Amps	£9.18	1
EUC1P40D	40 Amps	£9.18	1
EUC1P50D	50 Amps	£9.18	1
EUC1P63D	63 Amps	£9.18	1

Terminal Capacity: 1P, 2P, 3P 6kA & 10kA MCBs Cable up to 25mm<sup>2</sup>

2 Pole MCB 10kA D Curve

Box Qty 6



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC2P1D	1 Amp	£19.38	1
EUC2P2D	2 Amps	£19.38	1
EUC2P4D	4 Amps	£19.38	1
EUC2P6D	6 Amps	£19.38	1
EUC2P10D	10 Amps	£19.38	1
EUC2P16D	16 Amps	£19.38	1
EUC2P20D	20 Amps	£19.38	1
EUC2P25D	25 Amps	£19.38	1
EUC2P32D	32 Amps	£19.38	1
EUC2P40D	40 Amps	£19.38	1
EUC2P50D	50 Amps	£19.38	1
EUC2P63D	63 Amps	£19.38	1

3 Pole MCB 10kA D Curve

Box Qty 4



CE & SEMKO Certified  
10kA Rated / EN 60898



Part Number	Description	Price	Per
EUC3P1D	1 Amp	£27.03	1
EUC3P2D	2 Amps	£27.03	1
EUC3P4D	4 Amps	£27.03	1
EUC3P6D	6 Amps	£27.03	1
EUC3P10D	10 Amps	£27.03	1
EUC3P16D	16 Amps	£27.03	1
EUC3P20D	20 Amps	£27.03	1
EUC3P25D	25 Amps	£27.03	1
EUC3P32D	32 Amps	£27.03	1
EUC3P40D	40 Amps	£27.03	1
EUC3P50D	50 Amps	£27.03	1
EUC3P63D	63 Amps	£27.03	1

**i** 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

MCB Accessories

MCB Lock and Padlock



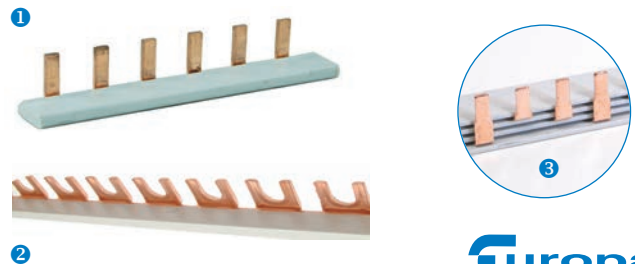
MCB Lock Manufactured from Strong Nylon,  
Fits most modern breakers. (MCB not included)

Locks 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)	£5.60	Pack
2 EUBPADLOCK	Padlock (3 per pack)	£9.46	Pack

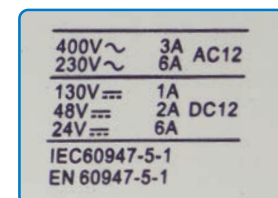
1000mm Busbars



✓ Can be cut to any length  
Maximum 55 1 Pole MCBs per length (54 for fork type)  
Maximum 18 3 Pole MCBs per length

Part Number	Description	Price	Per
1 BB1PP80/1000	Bus Bar 1P Pin 80A 1000mm	£18.11	1
2 BB1PF80/1000	Bus Bar 1P Fork 80A 1000mm	£18.11	1
1 BB1PP100/1000	Bus Bar 1P Pin 100A 1000mm	£24.08	1
3 BB3PP100/1000	Bus Bar 3P Pin 100A 1000mm	£59.32	1

Auxiliary Switch 1P Changeover



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

Part Number	Description	Price	Per
EUCA11	Aux Sw. 1 Pole Changeover	£7.91	1

## Mainswitch / Isolator

### Mainswitch / Isolator



CE & SEMKO Certified  
EN 60947-3

Part Number	Description	Price	Per
ISO63-2	63A 2 Pole Mainswitch / Isolator	£5.05	1
ISO100-2	100A 2 Pole Mainswitch / Isolator	£5.05	1
ISO100-4	100A 4 Pole Mainswitch / Isolator	£10.12	1
ISO125-3	125A 3 Pole Mainswitch / Isolator	£13.93	1
ISO125-4	125A 4 Pole Mainswitch / Isolator	£18.38	1

Terminal Capacity: 100A 35mm<sup>2</sup> / 125A 50mm<sup>2</sup>

## 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: 1P, 2P 6kA & 10kA Cable up to 16mm<sup>2</sup>

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 RCD 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	£35.50	1
EUB1R.10/1B	10A 30mA Trip 1 Pole	£35.50	1
EUB1R.16/1B	16A 30mA Trip 1 Pole	£35.50	1
EUB1R.20/1B	20A 30mA Trip 1 Pole	£35.50	1
EUB1R.32/1B	32A 30mA Trip 1 Pole	£35.50	1
EUB1R.40/1B	40A 30mA Trip 1 Pole	£35.50	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	£40.75	1
EUB1R.10/1C	10A 30mA Trip 1 Pole	£40.75	1
EUB1R.16/1C	16A 30mA Trip 1 Pole	£40.75	1
EUB1R.20/1C	20A 30mA Trip 1 Pole	£40.75	1
EUB1R.32/1C	32A 30mA Trip 1 Pole	£40.75	1
EUB1R.40/1C	40A 30mA Trip 1 Pole	£40.75	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	£41.20	1
EUC7R.10/1B	10A 30mA Trip 1 Pole	£41.20	1
EUC7R.16/1B	16A 30mA Trip 1 Pole	£41.20	1
EUC7R.20/1B	20A 30mA Trip 1 Pole	£41.20	1
EUC7R.32/1B	32A 30mA Trip 1 Pole	£41.20	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	£44.70	1
EUC7R.10/1C	10A 30mA Trip 1 Pole	£44.70	1
EUC7R.16/1C	16A 30mA Trip 1 Pole	£44.70	1
EUC7R.20/1C	20A 30mA Trip 1 Pole	£44.70	1
EUC7R.32/1C	32A 30mA Trip 1 Pole	£44.70	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	£45.07	1
EUBLM16B30	16A 30mA Trip 2 Pole	£45.07	1
EUBLM20B30	20 A 30mA Trip 2 Pole	£45.07	1
EUBLM32B30	32A 30mA Trip 2 Pole	£45.07	1
EUBLM40B30	40A 30mA Trip 2 Pole	£45.07	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	£45.07	1
EUBLM16C30	16A 30mA Trip 2 Pole	£45.07	1
EUBLM20C30	20A 30mA Trip 2 Pole	£45.07	1
EUBLM32C30	32A 30mA Trip 2 Pole	£45.07	1
EUBLM40C30	40A 30mA Trip 2 Pole	£45.07	1
EUBLM16C30A	16A 30mA Trip 2 Pole (Type A)	£53.55	1
EUBLM40C30A	40A 30mA Trip 2 Pole (Type A)	£53.55	1



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**RCCB / RCD**

Residual Current Circuit Breakers (RCCB) providing Earth fault safety protection.

Terminal Capacity: Cable up to 25mm<sup>2</sup>

**RCCB 2 Pole 6kA**



CE & SEMKO Certified / EN 61008  
EN 61008 110-230V / Type AC

Part Number	Description	Price	Per
EUR125.30/2	25A 30mA Trip	£30.42	1
EUR125.100/2	25A 100mA Trip	£30.42	1
EUR140.30/2	40A 30mA Trip	£30.42	1
EUR140.100/2	40A 100mA Trip	£30.42	1
EUR163.30/2	63A 30mA Trip	£30.42	1
EUR163.100/2	63A 100mA Trip	£30.42	1
EUR180.30/2	80A 30mA Trip	£39.81	1
EUR180.100/2	80A 100mA Trip	£39.81	1
EUR180.100/2S	80A 100mA Trip Time Delay	£53.68	1
EUR180.300/2	80A 300mA Trip	£42.95	1
EUR1100.30/2	100A 30mA Trip	£62.73	1
EUR1100.100/2	100A 100mA Trip	£62.73	1
EUR1100.100/2S	100A 100mA Trip Time Delay	£73.76	1
EUR1100.300/2	100A 300mA Trip	£74.97	1

**RCCB 4 Pole 6kA**



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

Part Number	Description	Price	Per
EUR125.30/4	25A 30mA Trip	£52.10	1
EUR125.100/4	25A 100mA Trip	£52.10	1
EUR140.30/4	40A 30mA Trip	£52.10	1
EUR140.100/4	40A 100mA Trip	£52.10	1
EUR163.30/4	63A 30mA Trip	£52.10	1
EUR163.100/4	63A 100mA Trip	£52.10	1
EUR180.30/4	80A 30mA Trip	£60.57	1
EUR180.100/4	80A 100mA Trip	£60.57	1
EUR180.100/4S	80A 100mA Trip Time Delay	£71.13	1
EUR180.300/4	80A 300mA Trip	£65.76	1
EUR1100.30/4	100A 30mA Trip	£76.50	1
EUR1100.100/4	100A 100mA Trip	£76.50	1
EUR1100.100/4S	100A 100mA Trip Time Delay	£90.74	1
EUR1100.300/4	100A 300mA Trip	£91.29	1

## Modular Contactors

### 2 Pole Modular Contactor (Din Rail Mounting)



See page 139 for lighting guides



Width 18mm

Rated Insulation Voltage (Ui) 400V AC

Terminal Capacity: 1.5 - 10mm<sup>2</sup>

Part Number	Description	Price	Per
EUC1-20-2P	2 Pole N/O 20A 230V AC Coil	£24.02	1
EUC1-20-2NOB	2 Pole N/O 24V AC Coil	£25.78	1
EUC1-20-2NCB	2 Pole N/C 20A 24V AC Coil	£25.78	1
EUC1-20-2NC	2 Pole N/C 20A 230V AC Coil	£25.78	1
EUC1-25-2P	2 Pole N/O 25A 230V AC Coil	£31.64	1
EUC1-25-2NCP	2 Pole N/C 25A 230V AC Coil	£33.34	1

### 4 Pole Modular Contactor (Din Rail Mounting)



See page 139 for lighting guides



Width 25A 36mm / 40A & 63A 54mm

Rated Insulation Voltage (Ui) 500V AC

Terminal Capacity: 25A 1.5 - 10mm<sup>2</sup> / 40A & 63A 2.5 - 25mm<sup>2</sup>

Part Number	Description	Price	Per
EUC2-25-4P	4 Pole N/O 25A 230V AC Coil	£43.65	1
EUC2-25-4NOB	4 Pole N/O 25A 24V AC Coil	£47.69	1
EUC2-25-4NCB	4 Pole N/C 25A 24V AC Coil	£47.69	1
EUC2-25-4NCP	4 Pole N/C 25A 230V AC Coil	£47.69	1
EUC3-40-4P	4 Pole N/O 40A 230V AC Coil	£58.35	1
EUC3-40-4NOB	4 Pole N/O 40A 24V AC Coil	£68.50	1
EUC3-40-4NCB	4 Pole N/C 40A 24V AC Coil	£68.50	1
EUC3-40-4NCP	4 Pole N/C 40A 230V AC Coil	£68.50	1
EUC3-63-4P	4 Pole N/O 63A 230V AC Coil	£64.85	1
EUC3-63-4NOB	4 Pole N/O 63A 24V AC Coil	£77.40	1
EUC3-63-4NCB	4 Pole N/C 63A 24V AC Coil	£77.40	1
EUC3-63-4NCP	4 Pole N/C 63A 230V AC Coil	£77.40	1

### 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	£0.77	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 <sup>2</sup>			2.5-25mm <sup>2</sup>	
Rated Terminal Capacity (Coil)	0.75-2.5mm <sup>2</sup>				

## 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	£20.45	1

## Kilo Watt Hour Meters

### 32A Kilo Watt Hour Meter (Din Rail Mounting)



EN 62052

Single phase kilo watt hour meter / 3 colour LED / LCD Display 6 + 1 digits / Non resettable / Memory backup / 50 / 60Hz

Part Number	Description	Price	Per
DDS-1Y-M	32A (1 Module) LCD Display	£33.15	1

### MID Approved 45A Kilo Watt Hour Meter



MID Approved

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

Part Number	Description	Price	Per
SDM120A	45A 1 Mod kWh Meter	£45.25	1

## RCD Sockets and Enclosures

### 13A RCD Sockets



#### BS7288 / CE Certified

Rated Voltage: 230V 50Hz

Trip Current 30mA / Trip Speed: 40mS (Passive)

On / Off Indicator / Test Facility

Mechanically Latching (passive) (sockets will not trip in the event of a power failure)

Part Number	Description	Price	Per
1 RCD13A1GS	Plastic RCD 13A Single Socket	£22.48	1
2 RCD13ASS	Plastic RCD 13A Double Socket Switched	£26.87	1
3 RCD13AMC	Metal Clad RCD 13A Double Socket Switched	£34.56	1
4 RCD13AP1GS	Plastic RCD 13A Single Socket Switched	£26.33	1
5 RCD13AMC1GS	Metal Clad RCD 13A Single Socket Switched	£33.45	1

Europa 13A RCD safety 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 safety sockets are particularly suitable for use where liquids are present and 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)

Part Number	Description	Price	Per
RCDFSP	13A Single RCD Spur Outlet	£25.33	1

listed in  
**LUCKINS**live™

### Insulated Socket Enclosures (IP65)



IP65 Outdoor Gang Boxes / Accommodates Standard Socket, Spur, Switches and RCDs / 20mm Knock-outs located top, bottom, side and back / Grey Enclosure / Corrosion Resistant / Padlockable for added security. 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	£9.30	1
ECWSK2	2 Gang Socket Enclosure	£12.25	1
ECWSK21	2 x 1 Gang Socket Enclosure	£15.66	1

## Single Phase Fused Switches

### Insulated 80A Double Pole Fused Switch



#### BSEN60947-3 (Fuse not inc)

Terminal Capacity Up To 25mm<sup>2</sup> H: 80mm W: 127mm D: 53mm

Use ME House Service Cut Out Fuses - See Page 120

Part Number	Description	Price	Per
1 SPSF80	80A Single Phase Fused Switch	£21.50	1
2 SPSFS	Cable Entry Shroud (sold separately)	£3.30	1

### 5 Module Metal Clad 100A Fused Switch



Fused Switch Rated at 100A 230V (Fuse not inc)  
Incoming terminal capacity 2.5 to 50mm<sup>2</sup>

Spare module can be used for MCBs etc...

IP44

Use ME House Service Cut Out Fuses - see page 120

Part Number	Description	Price	Per
SPSF100M	100A Single Phase Fused Switch	£54.05	1

## SPD Surge Protection Devices

**Basic information** required to **select** the correct **SPD** for your application.

- Does the building have a Lightning Protection System (LPS)?
- Is there an overhead power cable to the building?
- What type of earthing system is installed (TT, TN-S & TN-C-S / PME)?
- Is there a sub distribution board more than 10 metres away from the main distribution board?
- Is the equipment to be protected more than 10 metres away from the SPD?
- Is there sensitive electronic equipment in the premises?

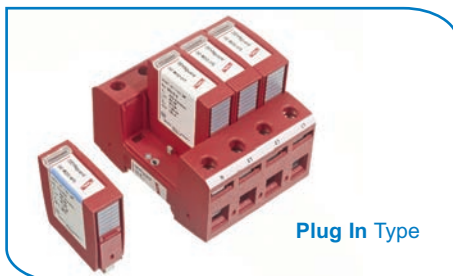


SPD's should be selected and installed according to sections **443 & 534** of the IET Wiring Regulations (**BS7671**) and the manufacturers installation instructions.

**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 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 4mm<sup>2</sup> copper if the cross-sectional area of the line conductors is greater than 4mm<sup>2</sup>, 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 4mm<sup>2</sup>
  - ❖ Where there is a Lightning Protection System (LPS) or overhead cable application, the minimum cross-sectional area for Type 1 SPDs shall be 16mm<sup>2</sup> 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

### Compact Combined Type 1 & 2 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

Part Number	Description	Price	Per
941110	2 Module Type 1/2 Single Phase TT/TN	£338.52	1
941310	4 Module Type 1/2 Three Phase TT/TN	£472.28	1

## Compact Combined Type 1 & 2 Devices for TN Earthing Systems

### Compact 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

Part Number	Description	Price	Per
941200	2 Module Type 1/2 Single Phase TN	£300.34	1
941400	4 Module Type 1/2 Three Phase TNS	£562.65	1

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

### Combined Type 1 & 2 Devices for TT/TN



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
951110	4 Module Type 1/2 SPN Single Phase TT/TN	£575.36	1
951115	4 Module Type 1/2 Single Phase TT/TN + Alarm	£621.19	1
951310	8 Module Type 1/2 Three Phase TT/TN	£1005.35	1
951315	8 Module Type 1/2 Three Phase TT/TN + Alarm	£1140.94	1

## Combined Type 1 & 2 Devices for TN Earthing Systems

### 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  
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
951200	4 Module Type 1/2 SPN Single Phase TN	£413.54	1
951205	4 Module Type 1/2 Single Phase TN + Alarm	£450.24	1
951400	8 Module Type 1/2 TPN Three Phase TNS	£757.21	1
951405	8 Module Type 1/2 Three Phase TN + Alarm	£867.88	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	£63.70	1
900455	2 Module Type 2 Three Phase TT/TN	£131.80	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	£130.61	1
952115	2 Module Type 2 Single Phase TT + Alarm	£136.67	1
952310	4 Module Type 2 Three Phase TT	£232.11	1
952315	4 Module Type 2 Three Phase TT/TN + Alarm	£265.32	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	£86.04	1
952205	2 Module Type 2 Single Phase TN + Alarm	£109.29	1
952400	4 Module Type 2 Three Phase TN	£171.15	1
952405	4 Module Type 2 Three Phase TN + Alarm	£209.40	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	£66.17	1
952090	1 Module Type 2 Single Phase TN-C-S + Alarm	£78.49	1

## Type 2 Devices for PV Systems



### Type 2 Devices for PV Systems

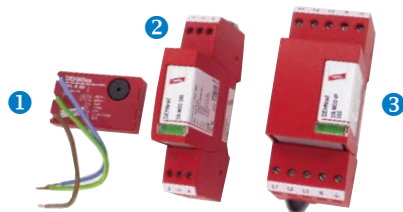


For installations without Lightning Protection System (LPS)  
Not suitable for PV systems installed on metal roofs  
Protects the inverter input against surges  
Integrated DC fuse with SCI function  
Plug in module for ease of replacement  
Recommended IP65 enclosure: ECW4

Part Number	Description	Price	Per
952510	3 Module Type 2 1000V DC	£191.42	1
952511	3 Module Type 2 600V DC	£193.06	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	£57.66	1
2 953200	1 Module Type 3 Single Phase 25A	£58.49	1
2 953205	1 Module Type 3 Single Phase 25A + Alarm	£70.78	1
2 953228	1 Module Type 3 Single Phase 32A + Alarm	£76.13	1
2 953229	1 Module Type 3 Single Phase 32A + Alarm	£90.83	1
3 953400	2 Module Type 3 Three Phase 25A	£139.18	1
3 953405	3 Module Type 3 Three Phase 25A + Alarm	£159.61	1

## SPD Accessories

### Surge Protection (SPD) Accessories



Part Number	Description	Price	Per
1 952010	Type 2 Spare L Plug	£50.25	1
2 952050	Type 2 Spare N Plug TT	£63.93	1
3 952589	1 Pole STAK25 Terminal (MOQ 4pcs)	£6.97	1
4 953010	Type 3 Spare Plug Single Phase	£61.99	1
5 953020	Type 3 Spare Plug Three Phase	£122.15	1
6 951001	Type 1 Spare L Plug	£293.50	1
7 951050	Type 1 Spare N Plug Single Phase	£344.00	1
8 951100	Type 1 Spare N Plug 3 Phase	£364.00	1

For product applications please see the table on page 143

See over the page for Enclosed Devices



## Enclosed Type 1 & 2 TT/TN Devices

### Combined Type 1/2 TT Devices in IP65 Enclosure



Protects against surges and direct lightning strikes

Part Number	Description	Price	Per
ESP12DSH240TT	Boxed DSH Type 1/2 Single Phase TT	£341.22	1
ESP12DSH415TT	Boxed DSH Type 1/2 Three Phase TT	£561.78	1

## Enclosed Type 1 & 2 TN Devices

### Combined Type 1/2 TN Devices in IP65 Enclosure



Protects against surges and from direct lightning strikes

Part Number	Description	Price	Per
ESB12PA240	Boxed Type 1/2 Single Phase TN + Alarm	£487.20	1
ESB12PF240	Boxed Type 1/2 Single Phase TN + Fuse	£466.20	1
ESB12P415	Boxed Three Phase Type 1/2 TN	£836.85	1
ESB12PA415	Boxed Type 1/2 Three Phase TN+ Alarm	£919.80	1
ESB12PF415	Boxed Type 1/2 Three Phase TN + Fuses	£921.90	1
ESP12DSH240	Boxed DSH Type 1/2 Single Phase TN	£303.45	1
ESP12DSH415	Boxed DSH Type 1/2 Three Phase TN	£558.88	1

Insulated Distribution Enclosure Dimensions (mm) see page 11				
Part Number	Description	Height	Width	Depth
ECW5	5 Module	215mm	145mm	100mm
ECW6	6 Module	215mm	160mm	100mm
ECW8	8 Module	215mm	215mm	100mm
ECW12	12 Module	215mm	270mm	100mm
ECW14SPEL	14 Module	300mm	300mm	142mm

## Enclosed Type 2 TN Devices

### Type 2 TN Devices in IP65 Enclosure



Protects against supply and induced surge currents

Part Number	Description	Price	Per
ESB2P240	Boxed Single Phase Type 2 TN	£121.80	1
ESB2PA240	Boxed Single Phase Type 2 TN + Alarm	£141.75	1
ESB2PF240	Boxed Single Phase Type 2 TN + 63A 10kA C Curve MCB	£130.20	1
ESB2P415	Boxed Three Phase Type 2 TN	£216.30	1
ESB2PA415	Boxed Three Phase Type 2 TN + Alarm	£255.15	1
ESB2PF415	Boxed Three Phase Type 2 TN + 63A 10kA C Curve MCB	£250.95	1

Part Number	SPD	Enclosures	
ESP12DSH240TT	941110	ECW5	
ESP12DSH415TT	941310		
ESB12PA240	951205	ECW6	
ESB12PF240	951200		
ESB12P415	951400	ECW8	
ESB12PA415	951405		
ESB12PF415	951400	ECW14SPEL	
ESP12DSH240	941200	ECW5	
ESP12DSH415	941400		
ESB2P240	952200		
ESB2PA240	952205		
ESB2PF240	952200		
ESB2P415	952400		
ESB2PA415	952405		
ESB2PF415	952400		ECW8

Single Phase Module Size	Surge Device Only	Surge + MCB	Surge + 22 x 58 Fuse
1	ECW5	ECW5	ECW5
2	ECW5	ECW5	ECW5
4	ECW5	ECW5	ECW6
Three Phase Module Size	Surge Device Only	Surge + MCB	Surge + 22 x 58 Fuse
2	ECW5	ECW5	ECW8
4	ECW5	ECW8	ECW12
8	ECW8	ECW12	ECW14SPEL

## Time Clocks



### ① Dual Mounting 230V Timers Can be Panel or Din Rail Mounted



£31.06



£29.69



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
① ET1624HDPM	7 Day Digital 1 Channel 16 Period (1 Minute Segments) (Panel or Din Rail Mount)
② ET1624HAPM	24 Hour Analogue (15 Minute Segments) (Panel or Din Rail Mount)

#### ET1624HA 16A (AC-1) 230V AC 24 Hour (Din Rail Mount) Analogue



£29.69

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.

#### ET1624HEA 16A (AC-1) 230V AC 24 Hour (Din Rail Mount) Analogue



£43.83

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.

#### ET1624HD 16A (AC-1) 230V AC 7 Day 24 Hour (Din Rail Mount) Digital



£31.06

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.

#### ET167D2C 16A (AC-1) 230V AC 7 Day 24 Hour (Din Rail Mount) Digital



£52.83

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. Auto Summer / Winter adjustment. Battery back up.

#### ET167DYD 16A (AC-1) 230V AC 7 Day 24 Hour (Din Rail Mount) Digital



£33.85

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.

① See pages 95-102 for staircase timers, multifunction timers and relays.



## Door

- Door opening angle 120°
- Both horizontal and vertical option
- Pre-formed fixing studs inside
- Easy access to the contents
- Door stop available



### Patent pending hinge design

- Easy assembly & refined appearance

## Base

The main body of the ARCA cabinet is made from rugged polycarbonate offering many benefits:

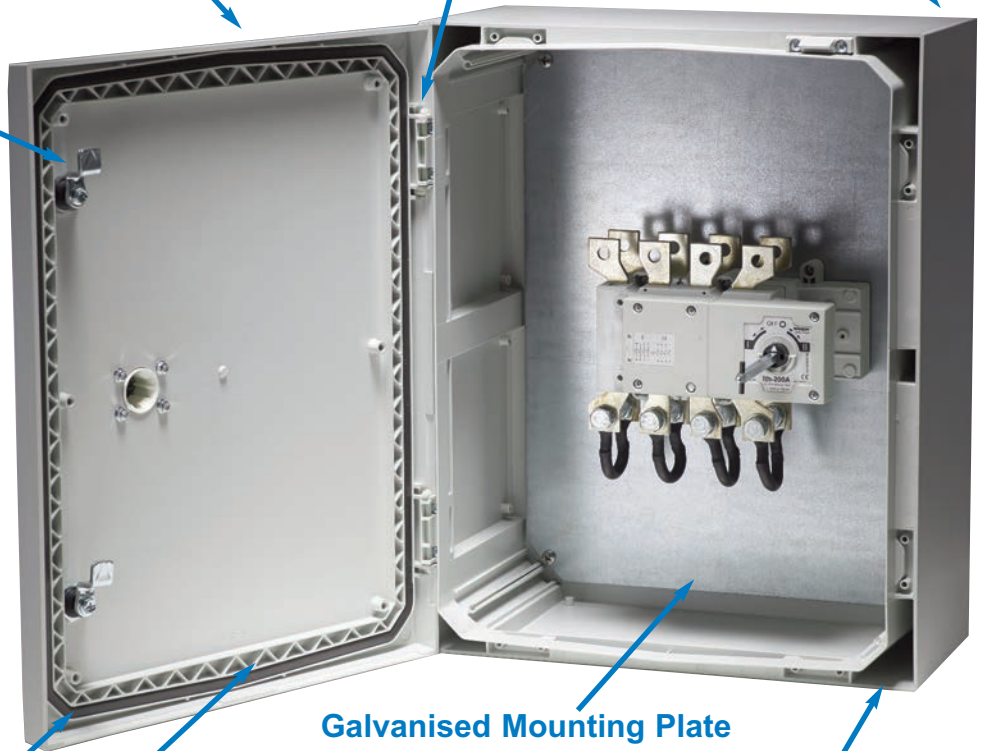
- Non corrosive
- High impact resistance
- Low maintenance
- UV resistant
- Aesthetically pleasing

## Locking

- Double bit

## Mounting pods

- On the base, cover and four base sides



### Galvanised Mounting Plate

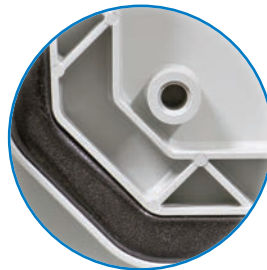
- Included

## Gasket

- Wide and secured gasket with PUR material for high quality sealing

### Special moulded rib design

- For making the cabinet extra stable and solid



### Corner design

- Double corner to secure fixing without destroying the IP rating
- Robust and rigid cabinet



### Scan the QR code

- View our ARCA cabinet video for more information

## Enclosures

### Fibox ARCA IEC Cabinets

#### 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

Colour: 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	£51.40	1
ARCA403015	H: 400 x W: 300 x D: 150mm	£64.76	1
ARCA403021	H: 400 x W: 300 x D: 210mm	£68.89	1
ARCA504021	H: 500 x W: 400 x D: 210mm	£84.62	1
ARCA604021	H: 600 x W: 400 x D: 210mm	£88.84	1
ARCA705030	H: 700 x W: 500 x D: 300mm	£153.67	1
ARCA806030	H: 800 x W: 600 x D: 300mm	£207.41	1

### Accessories for ARCA 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)	£34.14	1
DRSARCA403015	2 x 11 Modules (403015)	£44.71	1
DRSARCA403021	2 x 11 Modules (403021)	£44.71	1
DRSARCA504021	3 x 16 Modules (504021)	£57.76	1
DRSARCA604021	3 x 16 Modules (604021)	£60.39	1
DRSARCA705030	4 x 21 Modules (705030)	£69.91	1
DRSARCA806030	4 x 26 Modules (806030)	£89.90	1

#### ② Spare Galvanised Steel Mounting Plate

Part Number	Description	Price	Per
MPSARCA3020	Mounting Plate 300 x 200mm	£3.87	1
MPSARCA4030	Mounting Plate 400 x 300mm	£7.93	1
MPSARCA5040	Mounting Plate 500 x 400mm	£13.75	1
MPSARCA6040	Mounting Plate 600 x 400mm	£14.93	1
MPSARCA7050	Mounting Plate 700 x 500mm	£32.65	1
MPSARCA8060	Mounting Plate 800 x 600mm	£37.78	1

#### ③ Galvanised Steel Inner Door Set

Part Number	Description	Price	Per
IDSARCA3020	Inner Door Set (302015)	£46.12	1
IDSARCA4030	Inner Door Set (403015-21)	£59.10	1
IDSARCA5040	Inner Door Set (504021)	£66.26	1
IDSARCA6040	Inner Door Set (604021)	£71.64	1
IDSARCA7050	Inner Door Set (705030)	£92.80	1
IDSARCA8060	Inner Door Set (806030)	£114.49	1

#### ④ Key Lock

Part Number	Description	Price	Per
LISARCA1242E	Key Lock 1242E Key	£11.66	1
LISARCA405E	Key Lock 405E (complete system)	£11.66	1
LISARCA455E	Key Lock 455E Key	£11.66	1
LISARCAV2432E	Key Lock V2432E Key	£11.66	1

#### ⑤ Locking Inserts

Part Number	Description	Price	Per
LISARCADB3	Locking Insert Double-bit 3mm	£1.10	1
LISARCAS7	Locking Insert Square 7mm	£1.10	1
LISARCAS8	Locking Insert Square 8mm	£1.10	1
LISARCAT8	Locking Insert Triangular 8mm	£18.61	1

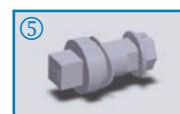
#### ⑥ Pole Mounting Kit

Part Number	Description	Price	Per
PMKARCA20	Pole Mounting Kit (302015)	£37.88	1
PMKARCA30	Pole Mounting Kit (203015 & 403015-21)	£38.50	1
PMKARCA40	Pole Mounting Kit (304015-21 & 504021 & 604021)	£39.61	1
PMKARCA50	Pole Mounting Kit (405021 & 705030)	£40.74	1
PMKARCA60	Pole Mounting Kit (406021 & 806030)	£41.18	1

#### ⑦ Wall Mounting Lug Set

Part Number	Description	Price	Per
WMKARCA10	Wall Mounting Lug Set +10mm Depth (SMALL 3020-6040)	£17.35	1
WMKARCA40	Wall Mounting Lug Set +40mm Depth (SMALL 3020-6040)	£19.03	1

listed in  
**LUCKINS**live™



## Fibox MNX Enclosures



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 Parts: RAL 7035 / Transparent Clear PC Cover: Smoked Grey / Galvanised Steel Back Plate to be Ordered Separately - See page 32

### Grey Lid with Knock-outs IP66 / 67



Part Number	Description	Price	Per	Part Number	Description	Price	Per
PCM95/75G	H: 100 x W: 100 x D: 75mm + KO Grey Lid	£11.77	1	PCM150/150G	H: 180 x W: 130 x D: 150mm + KO Grey Lid	£24.79	1
PCM100/60G	H: 130 x W: 80 x D: 60mm + KO Grey Lid	£13.16	1	PCM175/75G	H: 180 x W: 180 x D: 75mm + KO Grey Lid	£24.05	1
PCM100/75G	H: 130 x W: 80 x D: 75mm + KO Grey Lid	£12.88	1	PCM175/150G	H: 180 x W: 180 x D: 150mm + KO Grey Lid	£32.59	1
PCM125/75G	H: 130 x W: 130 x D: 75mm + KO Grey Lid	£16.10	1	PCM200/75G	H: 255 x W: 180 x D: 75mm + KO Grey Lid	£41.76	1
PCM125/100G	H: 130 x W: 130 x D: 100 + KO Grey Lid	£16.31	1	PCM200/100G	H: 255 x W: 180 x D: 100mm + KO Grey Lid	£41.90	1
PCM150/60G	H: 180 x W: 130 x D: 60mm + KO Grey Lid	£18.57	1	PCM200/150G	H: 255 x W: 180 x D: 150mm + KO Grey Lid	£43.58	1
PCM150/75G	H: 180 x W: 130 x D: 75mm + KO Grey Lid	£18.88	1	PCM200/125XG	H: 255 x W: 180 x D: 125mm Extra High Base + KO Grey Lid	£43.88	1
PCM150/100G	H: 180 x : 130 x D: 100mm + KO Grey Lid	£19.34	1	PCM200/175XG	H: 255 x W: 180 x D: 175mm Extra High Base + KO Grey Lid	£45.62	1



Grey Lid

IP66 / 67



Part Number	Description	Price	Per
PC100/35LG	H: 130 x W: 80 x D: 35mm Low Base Grey Lid	£12.28	1
PC95/60HG	H: 100 x W: 100 x D: 60mm High Base Grey Lid	£9.17	1
PC95/75HG	H: 100 x W: 100 x D: 75mm High Base Grey Lid	£9.36	1
PC100/75HG	H: 130 x W: 80 x D: 75mm High Base Grey Lid	£12.42	1
PC100/100HG	H: 130 x W: 80 x D: 100mm High Base Grey Lid	£13.02	1
PC100/125HG	H: 130 x W: 80 x D: 125mm High Base Grey Lid	£13.56	1
PC125/60HG	H: 130 x W: 130 x D: 60mm High Base Grey Lid	£15.09	1
PC150/60HG	H: 180 x W: 130 x D: 60mm High Base Grey Lid	£18.15	1
PC150/75HG	H: 180 x W: 130 x D: 75mm High Base Grey Lid	£18.31	1
PC150/100HG	H: 180 x W: 130 x D: 100mm High Base Grey Lid	£18.77	1
PC150/125HG	H: 180 x W: 130 x D: 125mm High Base Grey Lid	£19.33	1
PC175/100HG	H: 180 x W: 180 x D: 100mm High Base Grey Lid	£23.79	1
PC175/150HG	H: 180 x W: 180 x D: 150mm High Base Grey Lid	£31.47	1
PC200/100HG	H: 255 x W: 180 x D: 100mm High Base Grey Lid	£40.82	1
PC200/100XHG	H: 255 x W: 180 x W: 100mm Extra High Base Grey Lid	£42.15	1

Smoked Transparent Lid with Knock-outs IP66 / 67



Part Number	Description	Price	Per
PCM100/75T	H: 130 X W: 80 x D: 75mm + KO Smoked Transparent Lid	£13.38	1
PCM125/75T	H: 130 x W: 130 x D: 75mm + KO Smoked Transparent Lid	£16.26	1
PCM150/60T	H: 180 x W: 130 x D: 60mm + KO Smoked Transparent Lid	£18.68	1
PCM150/75T	H: 180 x W: 130 x D: 75mm + KO Smoked Transparent Lid	£18.94	1
PCM150/100T	H: 180 x W: 130 x D: 100mm + KO Smoked Transparent Lid	£19.46	1
PCM150/150T	H: 180 x W: 130 x D: 150mm + KO Smoked Transparent Lid	£25.20	1
PCM175/150T	H: 180 x W: 180 D: 150mm + KO Smoked Transparent Lid	£33.48	1
PCM200/75T	H: 255 x W: 180 x D: 75mm + KO Smoked Transparent Lid	£42.27	1
PCM200/100T	H: 255 x W: 180 x D: 100mm + KO Smoked Transparent Lid	£42.59	1
PCM200/150T	H: 255 x W: 180 x D: 150mm + KO Smoked Transparent Lid	£44.63	1
PCM200/125XT	H: 255 x W: 180 x D: 125mm Extra High Base + KO Smoked Transparent Lid	£44.59	1
PCM200/175XT	H: 255 x W: 180 x D: 175mm Extra High Base + KO Smoked Transparent Lid	£46.61	1

Smoked Transparent Lid

IP66 / 67



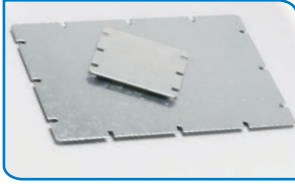
Part Number	Description	Price	Per
PC100/35LT	H: 130 x W: 80 x D: 35mm Low Base Smoked Transparent Lid	£12.39	1
PC125/100HT	H: 130 x W: 130 x D: 100 High Base Smoked Transparent Lid	£13.62	1
PC150/100HT	H: 180 x W: 130 x D: 100mm High Base Smoked Transparent Lid	£18.89	1
PC150/150HT	H: 180 x W: 130 x D: 150mm High Base Smoked Transparent Lid	£24.37	1
PC175/75HT	H: 180 x W: 180 x D: 75mm High Base Smoked Transparent Lid	£23.27	1
PC175/150HT	H: 180 x W: 180 x D: 150mm High Base Smoked Transparent Lid	£32.35	1
PC200/75HT	H: 255 x W: 180 x D: 75mm High Base Smoked Transparent Lid	£40.60	1
PC200/100HT	H: 255 x W: 180 x D: 100mm High Base Smoked Transparent Lid	£41.31	1
PC200/175XHT	H: 255 x W: 180 x D: 175mm Extra High Base Smoked Transparent Lid	£45.02	1



See page  
86  
for FIBOX MNX  
Polycarbonate  
Contactor  
Enclosures

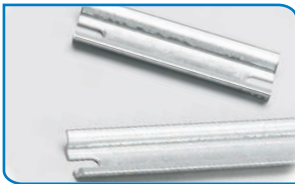
## Accessories for MNX Enclosures

### Steel Mounting Plate



Part Number	Description	Price	Per
MIV95	H: 100 x W: 100mm	£1.46	1
MIV100	H: 130 x W: 80mm	£1.67	1
MIV125	H: 130 x W: 130mm	£2.10	1
MIV150	H: 180 x W: 130mm	£2.44	1
MIV175	H: 180 x W: 180mm	£2.93	1
MIV200	H: 255 x W: 180mm	£3.94	1

### Steel 35mm Top Hat Din Rail



Part Number	Description	Price	Per
MIV5	50mm in Length	£1.76	1
MIV10	100mm in Length	£2.00	1
MIV15	150mm in Length	£2.46	1
MIV20	225mm in Length	£2.76	1

### Hinges and Wall Mounting Accessories



Part Number	Description	Price	Per
① THA	Grey Plastic Hinge Set (2pcs) Incl. Mounting Screws	£5.25	Set
② FP22046	Wall Fastening Lug Set (4pcs) Incl. Screws	£1.42	Set

### Spare Cover Screws



Part Number	Description	Price	Per
SS14551H	For 25-100mm Covers, Grey	£0.13	1



A wider range of FIBOX enclosures is available from Europa please contact sales: 01582 692 440

### MNX technical information

Property	Polycarbonate (PC)
Ingress Protection (EN 60529)	IP66 / IP67
Impact Resistance (EN 62262)	IK 08
Temperature Range Celsius (short term)	-40° . . 120°C
Temperature Range Celsius (continuous)	-40° . . 80°C
Temperature Range Fahrenheit (short term)	-40° . . 250°F
Temperature Range Fahrenheit (continuous)	-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



## THE TEMPO range



## THE PICCOLO range



## THE MNX range



## THE SOLID range

# FIBOX

## Enclosing Innovations

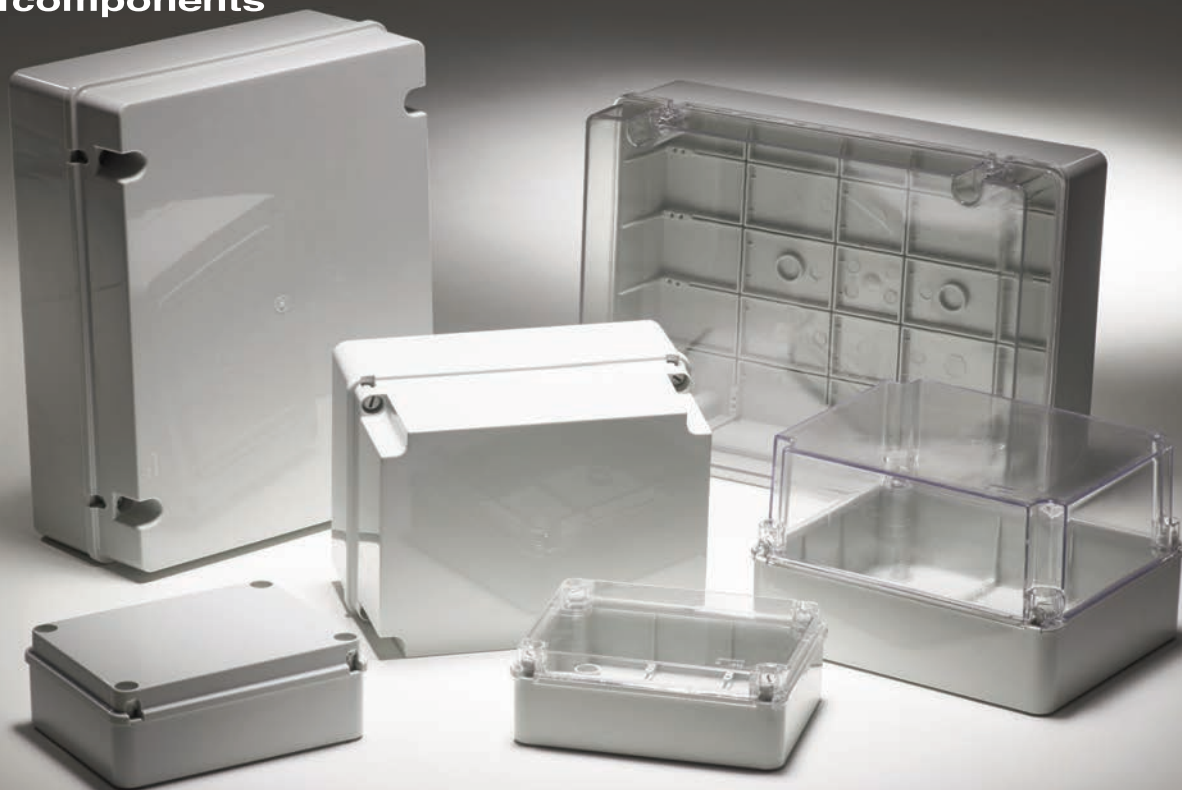
**At Fibox we appreciate your effort and match it with our own. Fibox is the leading innovator in developing enclosure solutions to protect your electrical and electronic designs from hostile environments. Simply put, we enclose your innovations.**

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**



A wider selection of Enclosure Types is 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...

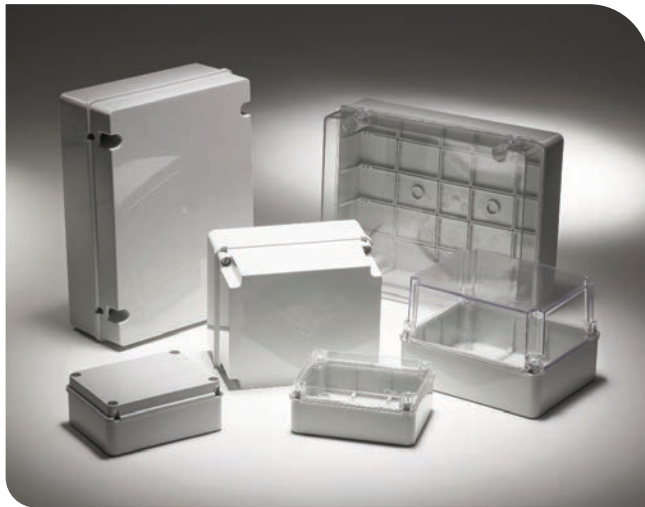


E-mail: [sales@europacomponents.com](mailto:sales@europacomponents.com)

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

## Insulated Adaptable Boxes

Insulated Adaptable Boxes (IP67)



IP67 Rated ABS Boxes / Quick Turn Screws / Hinged Lid /  
\* Mounting Plate to be Ordered Separately

Part Number	Description	Price	Per
PB520158	IK10 H: 200 x W: 155 x D: 80mm	£9.45	1
PB5201514	IK10 H: 200 x W: 155 x D: 140mm	£17.45	1
PB526219	IK10 H: 260 x W: 210 x D: 95mm	£14.60	1
PB5262116	IK10 H: 260 x W: 210 x D: 160mm	£25.60	1
PB5322413	IK10 H: 320 x W: 240 x D: 135mm	£23.15	1
PB5322418	IK10 H: 320 x W: 240 x D: 180mm	£37.25	1
PB5403013	IK10 H: 400 x W: 300 x D: 135mm	£38.65	1
PB520158C	IK10 H: 200 x W: 155 x D: 80mm (Clear Lid)	£15.25	1
PB5201514C	IK10 H: 200 x W: 155 x D: 140mm (Clear Lid)	£29.25	1
PB526219C	IK10 H: 260 x W: 210 x D: 95mm (Clear Lid)	£20.40	1
PB5262116C	IK10 H: 260 x W: 210 x D: 160mm (Clear Lid)	£35.75	1
PB5322413C	IK10 H: 320 x W: 240 x D: 135mm (Clear Lid)	£28.50	1
PB5322418C	IK10 H: 320 x W: 240 x D: 180mm (Clear Lid)	£49.15	1
PB5403013C	IK10 H: 400 W: 300 D: 135mm (Clear Lid)	£53.50	1
<b>Mounting Plates:</b>			
PBM2015	Mounting Plate 200 x 155mm	£5.02	1
PBM2621	Mounting Plate 260 x 210mm	£6.73	1
PBM3224	Mounting Plate 320 x 240mm	£8.55	1
PBM4030	Mounting Plate 400 x 300mm	£13.91	1

## Insulated ABS Plastic Enclosures

Insulated ABS Plastic Enclosures (IP65)



**RAL: 7035 / Strong ABS Enclosure**

Back Plate and Fixing Brackets Included / See page 141 for dimensions

Part Number	Description	Price	Per
PBE2821013	IK10 H: 280 x W: 210 x D: 130mm	£37.49	1
PBE332513	IK10 H: 330 x W: 250 x D: 130mm	£42.84	1
PBE4030016	IK10 H: 400 x W: 300 x D: 165mm	£50.20	1
PBE403019	IK10 H: 400 x W: 300 x D: 195mm	£61.35	1
PBE503519	IK09 H: 500 x W: 350 x D: 195mm	£71.95	1
PBE504017	IK09 H: 500 x W: 400 x D: 175mm	£72.35	1
PBE604020	IK09 H: 600 x W: 400 x D: 200mm	£87.80	1
PBE605022	IK09 H: 600 x W: 500 x D: 220mm	£150.40	1
PBE705024	IK09 H: 700 x W: 500 x D: 245mm	£207.66	1
PBE806026	IK09 H: 800 x W: 600 x D: 260mm	£274.85	1



PBE2821013C	IK10 H: 280 x W: 210 x D: 130mm Clear Door	£48.79	1
PBE332513C	IK10 H: 330 x W: 250 x D: 130mm Clear Door	£55.93	1
PBE403016C	IK10 H: 400 x W: 300 x D: 165mm Clear Door	£0.00	1
PBE403019C	IK10 H: 400 x W: 300 x D: 195mm Clear Door	£79.73	1
PBE503519C	IK09 H: 500 x W: 350 x D: 195mm Clear Door	£104.72	1
PBE504017C	IK09 H: 500 x W: 400 x D: 175mm Clear Door	£107.10	1
PBE604020C	IK09 H: 600 x W: 400 x D: 200mm Clear Door	£119.00	1
PBE605022C	IK09 H: 600 x W: 500 x D: 220mm Clear Door	£214.20	1
PBE705024C	IK09 H: 700 x W: 500 x D: 245mm Clear Door	£297.50	1
PBE806026C	IK09 H: 800 x W: 600 x D: 260mm Clear Door	£357.00	1

① PBEKEY010	PBE Spare Key	£3.57	1
② PBEKEYLOCK	PBE Key Lock (for enclosures from Sept 2015)	£9.39	1

### Epoxy Coated Strong Steel Enclosures



Epoxy Coated **Steel Enclosures (\*IP65)** **Europa components**



Dimensions page 141

**RAL: 7035 / 1.2mm Thick Steel / External Dimensions Shown**  
 Earth Studs Included / Top and Bottom Gland Plates  
 Galvanised Back Plate Included \* IP65 Enclosure when Fully Sealed

Part Number	Description	Price	Per
STB252515	H: 250 x W: 250 x D: 150mm	£39.75	1
STB302515	H: 300 x W: 250 x D: 150mm	£44.95	1
STB303015	H: 300 x W: 300 x D: 150mm	£53.40	1
STB303020	H: 300 x W: 300 x D: 200mm	£57.45	1
STB403015	H: 400 x W: 300 x D: 150mm	£57.30	1
STB403020	H: 400 x W: 300 x D: 200mm	£62.10	1
STB403025	H: 400 x W: 300 x D: 250mm	£74.35	1
STB404015	H: 400 x W: 400 x D: 150mm	£66.50	1
STB404020	H: 400 x W: 400 x D: 200mm	£73.10	1
STB504020	H: 500 x W: 400 x D: 200mm	£82.45	1
STB504025	H: 500 x W: 400 x D: 250mm	£88.10	1
STB505025	H: 500 x W: 500 x D: 250mm	£103.25	1
STB604020	H: 600 x W: 400 x D: 200mm	£93.25	1
STB604030	H: 600 x W: 400 x D: 300mm	£112.85	1
● STB604040	H: 600 x W: 400 x D: 400mm	£140.00	1
STB605020	H: 600 x W: 500 x D: 200mm	£106.05	1
STB605025	H: 600 x W: 500 x D: 250mm	£116.30	1
STB605030	H: 600 x W: 500 x D: 300mm	£120.85	1
STB606020	H: 600 x W: 600 x D: 200mm	£124.10	1
STB606025	H: 600 x W: 600 x D: 250mm	£130.40	1
STB705020	H: 700 x W: 500 x D: 250mm	£119.75	1
STB705025	H: 700 x W: 500 x D: 250mm	£133.65	1
STB705030	H: 700 x W: 500 x D: 300mm	£147.70	1
STB804030	H: 800 x W: 400 x D: 300mm	£153.35	1
STB806020	H: 800 x W: 600 x D: 200mm	£165.25	1
● STB806040	H: 800 x W: 600 x D: 400mm	£321.80	1
STB806030	H: 800 x W: 600 x D: 300mm	£195.85	1
STB1006030	H: 1000 x W: 600 x D: 300mm	£239.80	1
STB1008030	H: 1000 x W: 800 x D: 300mm	£292.40	1
● STB1008040	H: 1000 x W: 800 x D: 400mm	£441.70	1
STB1206030	H: 1200 x W: 600 x D: 300mm	£345.80	1
STB1208030	H: 1200 x W: 800 x D: 300mm	£415.75	1
● STB1208040	H: 1200 x W: 800 x D: 400mm	£540.60	1
STBKEYLOCK	Key Lock (all keys alike) (for STB & SSTB)	£6.82	1
STBKEY020	Spare Standard Key (for STB & SSTB)	£3.06	1
STBRACKET	Fixing Brackets x 4 (Only for STB)	£6.15	1
● SSTBRACKET	Stainless Steel Fixing Bracket x 4	£10.90	1



STBKEYLOCK



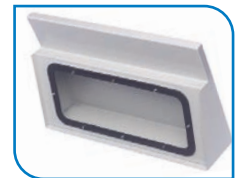
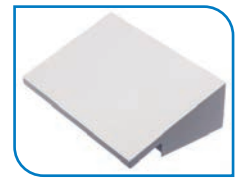
STBKEY020



SSTBRACKET

### Strong Steel Extension Boxes and Weather Hoods

Extension Boxes and **Weather Hoods (\*IP65)**



**RAL: 7035 / 1.2mm Thick Steel \* IP65 Rated When Fully Sealed**  
 Extension Boxes Include Earth Studs and Galvanised Back Plates

Part Number	Description	Price	Per
<b>1 Extension Boxes</b>			
STBEX204020	H: 200 x W: 400 x D: 200mm	£44.04	1
STBEX206020	H: 200 x W: 600 x D: 200mm	£58.05	1
STBEX206030	H: 200 x W: 600 x D: 300mm	£71.48	1
<b>2 Weather Hoods</b>			
STBWH104020	H: 100 x W: 400 x D: 200mm	£28.87	1
STBWH106020	H: 100 x W: 600 x D: 200mm	£41.59	1
STBWH106030	H: 100 x W: 600 x D: 300mm	£52.87	1

**NB:** Suitable for a range of Safe Switch Metal Enclosed products (pages 46, 49 & 52).  
 For corresponding enclosures please refer to the data sheets on our website.

## Stainless Steel Enclosures

### Stainless Steel Enclosures (\*IP65)



Dimensions page 141

#### 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	£147.80	1
SSTB303015	H: 300 x W: 300 x D: 150mm	£166.27	1
SSTB403020	H: 400 x W: 300 x D: 200mm	£203.22	1
SSTB404020	H: 400 x W: 400 x D: 200mm	£211.84	1
SSTB504020	H: 500 x W: 400 x D: 200mm	£262.34	1
SSTB604020	H: 600 x W: 400 x D: 200mm	£283.28	1
SSTB606020	H: 600 x W: 600 x D: 200mm	£387.97	1
SSTB806030	H: 800 x W: 600 x D: 300mm	£601.30	1
SSTB808030	H: 800 x W: 800 x D: 300mm	£800.57	1
STBKEYLOCK	Key Lock (all keys alike) (for STB & SSTB)	£6.82	1
STBKEY020	Spare Standard Key (for STB & SSTB)	£3.06	1
● SSTBRACKET	Stainless Steel Fixing Bracket x 4	£10.90	1

## Strong Steel Terminal Boxes

### Steel Terminal Boxes (\*IP65)



#### RAL: 7035

\* IP65 Rated 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	£23.33	1
STBT151512	H: 150 x W: 150 x D: 120mm	£24.84	1
STBT201580	H: 200 x W: 150 x D: 80mm	£25.33	1
STBT201512	H: 200 x W: 150 x D: 120mm	£28.05	1
STBT202080	H: 200 x W: 200 x D: 80mm	£25.77	1
STBT202012	H: 200 x W: 200 x D: 120mm	£28.90	1
STBT301512	H: 300 x W: 150 x D: 120mm	£34.55	1
STBT302080	H: 300 x W: 200 x D: 80mm	£36.22	1
STBT302012	H: 300 x W: 200 x D: 120mm	£38.65	1

## Enclosure Accessories

### Thermal Management

#### Filters and Fans with Housing (IP55)



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	£35.00	1
① TM-FF018125	Fan & Filter with Housing 170 x 157mm	£45.28	1
① TM-FF018176	Fan & Filter with Housing 226 x 209mm	£54.60	1
② TM-EF01897	Filter with Housing 134 x 129mm	£17.76	1
② TM-EF018125	Filter with Housing 170 x 157mm	£21.12	1
② TM-EF018176	Filter with Housing 226 x 209mm	£25.80	1

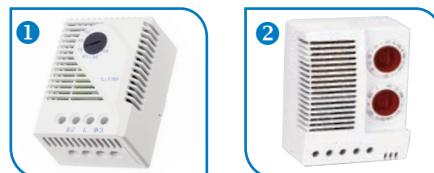
### Thermostats (Din Rail Mounting)



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

Part Number	Description	Price	Per
① TM-KTS011	Thermostat 0-60°C N/O Used for Cooling	£13.80	1
② TM-KTO011	Thermostat 0-60°C N/C Used for Heating	£13.80	1
③ TM-ZR011	Dual Thermostat 0-60°C N/O - N/C Used for both Cooling & Heating	£15.88	1

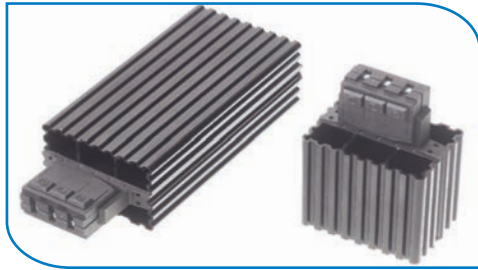
### Hygrostat and Hygrotherm



Adjustable Relative Humidity / AC1 Rating: 250VAC 5A

Part Number	Description	Price	Per
① TM-MFR012	Hygrostat 39 - 95% Relative Humidity	£35.84	1
② TM-ETF012	Hygrotherm 0-60°C 35 - 95% Relative Humidity	£83.50	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	£17.78	1
TM-HG140-30W	Anti-Condensation Heater 120 - 240V 30W	£18.67	1
TM-HG140-60W	Anti-Condensation Heater 120 - 240V 60W	£26.67	1
TM-HG140-100W	Anti-Condensation Heater 120 - 240V 100W	£28.89	1
TM-HG140-150W	Anti-Condensation Heater 120 - 240V 150W	£37.78	1

### Enclosure Inspection Windows

#### IP67 Inspection Windows



75mm Deep

Polycarbonate weather proof inspection windows 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	£16.59	1
IW6M	6 Module	£18.64	1
IW8M	8 Module	£19.78	1
IW12M	12 Module	£22.06	1

### Earth Strap for Metal Enclosures

#### Earth Strap for Steel Enclosures



To Suit M6 Earth Stud

Part Number	Description	Price	Per
STBE220	220mm x 4 Sq mm	£0.98	1

### Insulated Junction Boxes

#### IP55 Rated Junction Boxes



#### VDE Approved

Thermoplastic Boxes (Terminal not included)  
Halogen Free / IEC 60998  
Snap-on-lid  
Suited to cramped environments  
External Fixings



Part Number	Description	Price	Per
JB25	H: 89 x W: 43 x D: 37mm	£1.77	1
JBSD7	H: 75 x W: 75 x D: 37mm	£1.29	1

#### IP65 Rated Junction Boxes



#### VDE Approved

Thermoplastic Boxes (Including Terminal Strip)  
Halogen Free  
IEC 60998  
Soft Sealing Membrane



Part Number	Description	Price	Per
JBAB025	H: 80 x W: 80 x D: 52mm 2.5 - 4mm (5 Terminals)	£6.08	1
JBAB040	H: 93 x W: 93 x D: 55mm 2.5 - 4mm (5 Terminals)	£7.24	1
JBAB060	H: 110 x W: 110 x D: 67mm 6mm (5 Terminals)	£14.86	1

listed in  
**LUCKINSLIVE™**



IP54 / IP55 Rated Junction Boxes



Thermoplastic Enclosures (Terminal Not Included) / Halogen Free / Non Flammable

Part Number	Description	Price	Per
PB5757540	IP54 Rated 75 x 75 x 40mm	£1.50	1
PB5858545	IP54 Rated 85 x 85 x 45mm	£1.65	1
PB510010050	IP54 Rated 100 x 100 x 50mm	£1.84	1
PB570D	IP55 Rated 70mm Diameter x 40mm	£1.50	1
PB590D	IP55 Rated 90mm Diameter x 45mm	£1.50	1
PB5757545EM	IP55 Rated H: 75 x W: 75 x D: 45mm (with elastic membrane)	£3.78	1
PB5909055EM	IP55 Rated H: 90 x W: 90 x D: 55mm (with elastic membrane)	£5.02	1

IP67 Rated Junction Boxes



Thermoplastic Enclosures (Terminals Not Included)  
Halogen Free / Non Flammable

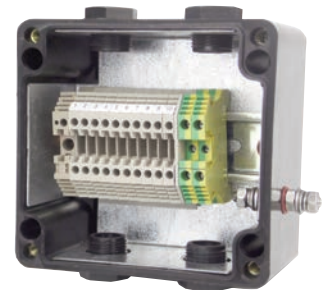
Part Number	Description	Price	Per
PB6757540	H: 75 x W: 75 x D: 40mm	£2.21	1
PB6858545	H: 85 x W: 85 x D: 45mm	£2.20	1
PB690D	90mm Diameter x D: 60mm	£2.30	1
PB610010050	H: 100 x W: 100 x D: 60mm	£2.25	1
PB611011070	H: 110 x W: 110 D: x 70mm	£3.80	1
PB6110110110	H: 110 x W: 110 x D: 110mm	£8.04	1
PB6110D	H: 110 x W: 110 x D: 110mm with Din Rail	£16.90	1

**i** The **PB6110110110** is an ideal size for housing **power & control relays** (see pages 98-101). Din rail sold separately (see page 107).

Industrial and Hazardous  
Area Products

Pre-Assembled GRP ATEX Enclosures

NEW



**CE-TEK**

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, internal earth continuity plate, M6 earthing stud, 2 x 4mm<sup>2</sup> earth terminals, certified stopping plugs.  
Machined cable entries: 4 x M20 CEP12/16 & 10x 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](http://www.europacomponents.com)).

Part Number	Description	Price	Per
CEP121290PA	Black GRP ATEX Enclosure + 10 x 2.5mm Terminals	£77.48	1
CEP161690PA	Black GRP ATEX Enclosure + 15 x 2.5mm Terminals	£98.64	1
CEP261690PA	Black GRP ATEX Enclosure + 26 x 2.5mm Terminals	£154.36	1

ATEX Cable Glands IP66 / 68



NEW

**CE-TEK**

Part Number	Description	Price	Per
85080520X3	M20 IP66/68 Polyamide ATEX Cable Gland Black 7 - 12mm	£1.61	1
85080522X3	M20 IP66/68 Polyamide ATEX Cable Gland Black 11 - 14mm	£1.61	1
KBA1SM20S	M20 IP66/68 Metal ATEX Cable Gland 3 - 8.5mm Inner & 6 - 12mm Outer Armour	£14.36	1
KBA1M20S	M20 IP66/68 Metal ATEX Cable Gland 6 - 12mm Inner & 8.5 - 16mm Outer Armour	£17.25	1
KBA1LM20S	M20 IP66/68 Metal ATEX Cable Gland 12 - 14.5mm Inner & 16 - 20mm Outer Armour	£18.96	1

## Cable Accessories

### PVC Electrical Insulation Tape

Available Whilst Stocks last!



19mm x 20m

19mm x 33m

(Sold in packs of 10 rolls)

Thickness: 0.13mm / Tensile Strength: 20 N/cm / Elongation: 200%  
Adhesion Strength: 1.5 N/cm / Maximum Operating Temperature: 80°C

## Insulated Cable Glands

### PG Cable Glands



CE Certified

IP65 Rating / 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	£3.99	10
PG9DB	PG9 ▲ Black 4-8mm	£4.95	10
PG9DG	PG9 ▲ Grey 4-8mm	£4.95	10
PG9DW	PG9 △ White 4-8mm	£4.95	10
PG11DG	PG11 ▲ Grey 5-10mm	£5.56	10
PG13.5DB	PG13.5 ▲ Black 6-12mm	£5.56	10
PG13.5DG	PG13.5 ▲ Grey 6-12mm	£5.56	10
PG13.5DW	PG13.5 △ White 6-12mm	£5.56	10
PG16DB	PG16 ▲ Black 10-14mm	£7.01	10
PG16DG	PG16 ▲ Grey 10-14mm	£7.01	10
PG16DW	PG16 △ White 10-14mm	£7.01	10
PG21DB	PG21 ▲ Black 13-18mm	£9.25	10
PG21DG	PG21 ▲ Grey 13-18mm	£9.25	10
PG21DW	PG21 △ White 13-18mm	£9.25	10
PG29DG	PG29 ▲ Grey 18-25mm	£16.83	10

① 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



CE Certified

IP68 Rating (with washer sold separately - see page 41)

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	£3.30	10
M12DB	M12 ▲ Black 3-6.5mm	£3.30	10
M16DB	M16 ▲ Black 4-8mm	£3.90	10
M16DBL	M16 ▲ Black (Large) 5-10mm	£6.00	10
M16DG	M16 ▲ Grey 4-8mm	£3.90	10
M16DR	M16 ▲ Red 4-8mm	£3.90	10
M16DW	M16 △ White 4-8mm	£3.90	10
M16DWL	M16 △ White (Large) 5-10mm	£6.00	10
M20DB	M20 ▲ Black 6-12mm	£4.37	10
M20DBL	M20 ▲ Black (Large) 10-14mm	£8.01	10
M20DBS	M20 ▲ Black (Small) 5-9mm	£4.37	10
M20DG	M20 ▲ Grey 6-12mm	£4.37	10
M20DGL	M20 ▲ Grey (Large) 10-14mm	£8.01	10
M20DGS	M20 ▲ Grey (Small) 5-9mm	£4.37	10
M20DR	M20 ▲ Red 6-12mm	£4.37	10
M20DRL	M20 ▲ Red (Large) 10-14mm	£8.01	10
M20DRS	M20 ▲ Red (Small) 5-9mm	£4.37	10
M20DW	M20 △ White 6-12mm	£4.37	10
M20DWL	M20 △ White (Large) 10-14mm	£8.01	10
M20DWS	M20 △ White (Small) 5-9mm	£4.37	10
M25DB	M25 ▲ Black 13-18mm	£8.01	10
M25DBS	M25 ▲ Black (Small) 9-16mm	£8.01	10
M25DG	M25 ▲ Grey 13-18mm	£8.01	10
M25DGS	M25 ▲ Grey (Small) 9-16mm	£8.01	10
M25DR	M25 ▲ Red 13-18mm	£8.01	10
M25DRS	M25 ▲ Red (Small) 9-16mm	£8.01	10
M25DW	M25 △ White 13-18mm	£8.01	10
M25DWS	M25 △ White (Small) 9-16mm	£8.01	10
M32DB	M32 ▲ Black 14-21mm	£10.36	10
M32DG	M32 ▲ Grey 14-21mm	£10.36	10
M32DR	M32 ▲ Red 14-21mm	£10.36	10
M32DW	M32 △ White 14-21mm	£10.36	10
M40DB	M40 ▲ Black 22-32mm	£40.27	10
M40DBS	M40 ▲ Black (Small) 18-28mm	£40.27	10
M40DG	M40 ▲ Grey 22-32mm	£40.27	10
M40DGS	M40 ▲ Grey (Small) 18-28mm	£40.27	10
M40DW	M40 △ White 22-32mm	£40.27	10
M40DWS	M40 △ White (Small) 18-28mm	£40.27	10
M50DB	M50 ▲ Black 32-38mm	£65.25	10
M50DG	M50 ▲ Grey 32-38mm	£65.25	10
M50DW	M50 △ White 32-38mm	£65.25	10
M63DB	M63 ▲ Black 37-44mm	£74.91	10

## Cable Gland Accessories

### Blanking Plugs



**CE Certified** / IP68 Rating (with washer sold separately)  
**Temperature Range:** -20°C to +80°C, intermittent 100°C  
**Material:** Nylon / Halogen Free  
**Colours:** RAL 7035 (light grey) / RAL 9005 (jet black)

Part Number	Description	Price	Per
M12BPB	M12 Blanking Plug Black	£4.50	10
M12BPG	M12 Blanking Plug Grey	£4.50	10
M16BPB	M16 Blanking Plug Black	£4.75	10
M16BPG	M16 Blanking Plug Grey	£4.75	10
M20BPB	M20 Blanking Plug Black	£5.00	10
M20BPG	M20 Blanking Plug Grey	£5.00	10
M25BPB	M25 Blanking Plug Black	£5.50	10
M25BPG	M25 Blanking Plug Grey	£5.50	10
M32BPB	M32 Blanking Plug Black	£10.75	10
M32BPG	M32 Blanking Plug Grey	£10.75	10
M40BPB	M40 Blanking Plug Black	£18.00	10
M40BPG	M40 Blanking Plug Grey	£18.00	10
PG16BPG	PG16 Blanking Plug Grey	£9.00	10
PG21BPG	PG21 Blanking Plug Grey	£9.00	10

### PG to Metric Adaptors



IP68 Rating (with washer sold separately)  
**Temperature Range:** -20°C to +80°C, intermittent +100°C  
**Material:** 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	£16.00	10
PG9-M16AG	PG9 to M16 Adaptor Grey	£17.50	10
PG11-M20AG	PG11 to M20 Adaptor Grey	£19.00	10
PG13.5-M20AG	PG13.5 to M20 Adaptor Grey	£21.00	10
PG16-M25AG	PG16 to M25 Adaptor Grey	£21.50	10
PG21-M25AG	PG21 to M25 Adaptor Grey	£24.50	10
PG29-M40AG	PG29 to M40 Adaptor Grey	£34.00	10

### Neoprene Washers for Europa Metric Cable Glands

Use to Guarantee an IP68 degree of protection.

Part Number	Description	Price	Per
M16W	M16 Rubber Washer	£5.80	100
M20W	M20 Rubber Washer	£5.80	100
M25W	M25 Rubber Washer	£7.20	100
M32W	M32 Rubber Washer	£6.75	100
M40W	M40 Rubber Washer	£15.00	100
M50W	M50 Rubber Washer	£23.27	100

## 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	£3.29	Pack
TBU06PE	6A PE 12 Way	£3.76	Pack
TBU10PE	10A PE 12 Way	£5.17	Pack
TBU16PE	16A PE 12 Way	£6.86	Pack
TBU20PE	20A PE 12 Way	£7.52	Pack
TBU30PE	30A PE 12 Way	£10.80	Pack
TBU60PE	60A PE 12 Way	£22.50	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	£3.57	Pack
TBU06PP	6A PP 12 Way	£4.23	Pack
TBU10PP	10A PP 12 Way	£5.92	Pack
TBU16PP	16A PP 12 Way	£8.27	Pack
TBU20PP	20A PP 12 Way	£8.93	Pack
TBU30PP	30A PP 12 Way	£13.00	Pack
TBU60PP	60A PP 12 Way	£27.00	Pack

## 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 1.5mm<sup>2</sup> to 4mm<sup>2</sup> including 2 x 2.5mm<sup>2</sup> 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	£0.92	1
② ECT010PP	Polypropylene (PP) 30A	£1.16	1

### Industrial Plugs & Sockets



The Europa range of industrial plugs and sockets up to 125A have been designed to resist harsh environmental conditions. They are solid and well sealed making them ideally suited for use in the industrial, leisure and entertainment sectors.

### Appliance Inlets

#### IP44 Appliance Inlet



#### CE & SEMKO Certified

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

Part Number	Description	Price	Per
IAP163P	● 230V 2P + E 16A	£5.50	1
IAP165N	● 400V 3P + N + E 16A	£6.75	1
IAP323P	● 230V 2P + E 32A	£8.00	1
IAP325N	● 400V 3P + N + E 32A	£9.50	1

### Industrial Plugs

#### IP44 Industrial Plugs



#### CE & SEMKO Certified

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

Part Number	Description	Price	Per
IP163F	● 110V 2P + E 16A	£1.59	1
IP163P	● 230V 2P + E 16A	£1.59	1
IP164N	● 415V 3P + E 16A	£2.68	1
IP165N	● 415V 3P + N + E 16A	£3.31	1
IP323F	● 110V 2P + E 32A	£3.68	1
IP323P	● 230V 2P + E 32A	£3.94	1
IP324N	● 415V 3P + E 32A	£4.19	1
IP325N	● 415V 3P + N + E 32A	£4.73	1

### Industrial Sockets

#### IP44 Industrial Sockets



#### CE & SEMKO Certified

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

Part Number	Description	Price	Per
IS163F	● 110V 2P + E 16A In-line Socket	£1.99	1
IS163P	● 230V 2P + E 16A In-Line Socket	£1.99	1
IS164N	● 415V 3P + E 16A In-line Socket	£4.08	1
IS165N	● 415V 3P + N + E 16A In-line Socket	£4.31	1
IS323F	● 110V 2P + E 32A In-line Socket	£3.99	1
IS323P	● 230V 2P + E 32A In-line Socket	£3.99	1
IS324N	● 415V 3P + E 32A In-line Socket	£4.41	1
IS325N	● 415V 3P + N + E 32A In-line Socket	£4.99	1

#### Surface Sockets with PG21 Cable Entry

ISS163F	● 110V 2P + E 16A Surface Socket	£4.46	1
ISS163P	● 230V 2P + E 16A Surface Socket	£4.46	1
ISS164N	● 415V 3P + E 16A Surface Socket	£4.73	1
ISS165N	● 415V 3P + N + E 16A Surface Socket	£4.94	1
ISS323F	● 110V 2P + E 32A Surface Socket	£6.30	1
ISS323P	● 230V 2P + E 32A Surface Socket	£6.83	1
ISS324N	● 415V 3P + E 32A Surface Socket	£6.98	1
ISS325N	● 415V 3P + N + E 32A Surface Socket	£7.88	1

IPS163F	● 110V 2P + E 16A Panel Socket	£3.62	1
IPS163P	● 230V 2P + E 16A Panel Socket	£3.62	1

#### Voltage Colour Codes

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



## Three Outlet Splitter

IP44 Three Outlet Splitter



CE & SEMKO Certified

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

Part Number	Description	Price	Per
ISP3163P	● 230V 2P + E 16A	£17.50	1

## Weather Proof Industrial Plugs

IP67 Industrial Plugs



CE & SEMKO Certified

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

Part Number	Description	Price	Per
IPW163F	● 110V 2P + E 16A	£4.22	1
IPW163P	● 230V 2P + E 16A	£4.22	1
IPW164N	● 415V 3P + E 16A	£5.00	1
IPW165N	● 415V 3P + N + E 16A	£6.01	1
IPW323F	● 110V 2P + E 32A	£6.97	1
IPW323P	● 230V 2P + E 32A	£6.97	1
IPW324N	● 415V 3P + E 32A	£7.98	1
IPW325N	● 415V 3P + N + E 32A	£8.81	1
IPW633P	● 230V 2P + E 63A	£25.23	1
IPW634N	● 415V 3P + E 63A	£28.51	1
IPW635N	● 415V 3P + N + E 63A	£31.85	1
● IPW1253P	● 230V 2P + E 125A	£68.30	1
● IPW1255N	● 415V 3P + N + E 125A	£72.50	1



New IP67 125A (230V) Also in 415V (Red).

## Weather Proof Industrial Plug Sockets

IP67 Industrial Sockets



CE & SEMKO Certified

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

Part Number	Description	Price	Per
ISW163F	● 110V In-line Socket 2P + E 16A	£5.64	1
ISW163P	● 230V In-line Socket 2P + E 16A	£5.64	1
ISW164N	● 415V In-line Socket 3P + E 16A	£6.43	1
ISW165N	● 415V In-line Socket 3P + N + E 16A	£7.53	1
ISW323F	● 110V In-line Socket 2P + E 32A	£9.01	1
ISW323P	● 230V In-line Socket 2P + E 32A	£9.01	1
ISW324N	● 415V In-line Socket 3P + E 32A	£9.75	1
ISW325N	● 415V In-line Socket 3P + N + E 32A	£10.75	1
ISW633P	● 230V In-line Socket 2P + E 63A	£30.55	1
ISW634N	● 415V In-line Socket 3P + E 63A	£35.14	1
ISW635N	● 415V In-line Socket 3P + N + E 63A	£38.66	1
● ISW1253P	● 230V In-line 2P + E 125A	£79.85	1
● ISW1255N	● 415V In-line 3P + N + E 125A	£87.66	1

ISSW163F	● 110V Surface Socket 2P + E 16A	£10.20	1
ISSW163P	● 230V Surface Socket 2P + E 16A	£10.20	1
ISSW164N	● 415V Surface Socket 3P + E 16A	£11.10	1
ISSW165N	● 415V Surface Socket 3P + N + E 16A	£12.00	1
ISSW323F	● 110V Surface Socket 2P + E 32A	£14.04	1
ISSW323P	● 230V Surface Socket 2P + E 32A	£14.04	1
ISSW324N	● 415V Surface Socket 3P + E 32A	£14.64	1
ISSW325N	● 415V Surface Socket 3P + N + E 32A	£16.20	1
● ISSW633P	● 230V Surface Socket 2P + E 63A	£34.92	1
● ISSW634N	● 415V Surface Socket 3P + E 63A	£36.78	1
● ISSW635N	● 415V Surface Socket 3P + N + E 63A	£39.45	1
● ISSW1253P	● 230V Surface 2P + E 125A	£93.25	1
● ISSW1255N	● 415V Surface 3P + N + E 125A	£98.45	1

IPSW163F	● 110V Panel Socket 2P + E 16A	£5.57	1
IPSW163P	● 230V Panel Socket 2P + E 16A	£5.57	1
IPSW164N	● 415V Panel Socket 3P + E 16A	£6.27	1
IPSW165N	● 415V Panel Socket 3P + N + E 16A	£7.23	1
IPSW323F	● 110V Panel Socket 2P + E 32A	£8.16	1
IPSW323P	● 230V Panel Socket 2P + E 32A	£8.16	1
IPSW324N	● 415V Panel Socket 3P + E 32A	£8.60	1
IPSW325N	● 415V Panel Socket 3P + N + E 32A	£9.10	1
IPSW633P	● 230V Panel 2P + E 63A	£18.77	1
IPSW634N	● 415V Panel 3P + E 63A	£21.15	1
IPSW635N	● 415V Panel 3P + N + E 63A	£23.06	1
● IPSW1253P	● 230V Panel 2P + E 125A	£74.75	1
● IPSW1255N	● 415V Panel 3P + N + E 125A	£83.50	1

## Switched Interlock Sockets

### IP65 Interlocked Switch Sockets (RCCB Protected)



**Unique Removable Aluminium Key!**  
Once removed the control lever can no longer be activated

**IP65 Rating / Complete with 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 / Compact size  
Includes spirit level to make installation easier

Part Number	Description	Price	Per
SISRW163P	● 230V 2P+E 16A 6h (40A 30mA 2P RCD)	£170.00	1
SISRW164V	● 400V 3P+E 16A 6h (40A 30mA 4P RCD)	£175.00	1
SISRW165V	● 400V 3P+N+E 16A 6h (40A 30mA 4P RCD)	£180.00	1
SISRW323P	● 230V 2P+E 32A 6h (40A 30mA 2P RCD)	£190.00	1
SISRW324V	● 400V 3P+E 32A 6h (40A 30mA 4P RCD)	£195.00	1
SISRW325V	● 400V 3P+N+E 32A 6h (40A 30mA 4P RCD)	£200.00	1
SISKEY	Spare Keys	£3.00	1

### IP67 Interlocked Switched 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	£62.00	1
SISW164VF	● 400V 3P + E 16A 6h	£70.00	1
SISW165VF	● 400V 3P + N + E 16A 6h	£73.00	1
SISW323PF	● 230V 2P + E 32A 6h	£76.00	1
SISW324VF	● 400V 3P + E 32A 6h	£83.00	1
SISW325VF	● 400V 3P + N + E 32A 6h	£86.00	1

### IP67 Weather Proof Switched Interlock 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  
Padlockable in the Off Position

Part Number	Description	Price	Per
SISW163P	● 230V 2P + E 16A 6h	£55.00	1
SISW165N	● 415V 3P + N + E 16A 6h	£59.00	1
SISW323P	● 230V 2P + E 32A 6h	£60.00	1
SISW325N	● 415V 3P + N + E 32A 6h	£65.00	1

## Switched Interlock Sockets

### IP44 Padlockable Switched Interlock Sockets



**IP44 Rated ABS Enclosure / CE Approved**  
Padlockable in the On and Off positions for added security with multiple knock-outs for easier installation.

Part Number	Description	Price	Per
SIS163PK	● 230V 2P + E 16A 6h	£38.00	1
SIS165VK	● 400V 3P + N + E 16A 6h	£44.00	1
SIS325VK	● 400V 3P + N + E 32A 6h	£56.00	1



EUBPADLOCK Padlock (3 per pack) £9.46 Pack

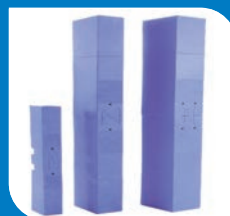
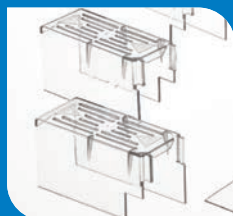
# Europa components Safe Switch

New Extended Selection for 2016 including a range supplied in IP66 Glass Reinforced Polycarbonate Enclosures.



The Safe Switch range of Load Break Switches are available in BS88 Switch Fuse and Changeover Switch formats as well as the standard Load Break Switch option, all with quick make-break switch action. The range is supplied with a choice of either IP65 strong steel enclosures, brushed grade 304 stainless steel, or IP66 glass reinforced polycarbonate, or simply as door Interlock switches. With ratings from 160A to 1000A (125A to 800A for BS88 switch fuses), plus an accessory range of terminal shrouds and auxiliary contacts, a wide variety of applications is now catered for. Consistent features across the range of enclosures include top and bottom gland plates for steel enclosures, BS88 fuses and fuse shrouds (switch fuses), IP20 Incoming terminal shrouds, pre-fitted door earth links and ample wiring space. Interlock switches feature IP65 panel mounted ergonomic and padlockable handles.

A wider range is available on request including Load Breaks up to 6,300A and NH Switch Fuses up to 800A, please contact sales for further details...



The entire Safe Switch range is carried in stock and is available now.

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## Safe Switch Range

### IP65 Metal Enclosed Door Interlocked Load Break Switches 160-1000A

3 Pole + Neutral Link Enclosed Load Break Switches (IP65)



Bureau Veritas, KEMA and CE Certified

EN 60947-3

- Handle padlockable in the OFF position for up to 3 padlocks
- IP20 incoming terminal shroud
- Top & bottom gland plates / Fully rated neutral link (where fitted)
- Neutral switch 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)**



Part Number	Description	Price	Per
LB1603PNLME	160A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£293.97	1
LB2003PNLME	200A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£348.51	1
LB2503PNLME	250A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£363.49	1
LB3153PNLME	315A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£526.10	1
LB4003PNLME	400A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£607.74	1
● LB5003PNLME	500A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£757.99	1
LB6303PNLME	630A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£908.23	1
LB8003PNLME	800A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£1382.58	1
LB10003PNLME	1000A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£1865.73	1

3 Pole + Sw. Neutral Enclosed Load Break Switches (IP65)



Part Number	Description	Price	Per
LB1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£293.97	1
LB2003PSNME	200A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£348.51	1
LB2503PSNME	250A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£363.49	1
LB3153PSNME	315A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£526.10	1
LB4003PSNME	400A (AC-23) 3P + Sw. Neutral Load Break Switch	£607.74	1
● LB5003PSNME	500A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£757.99	1
LB6303PSNME	630A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£908.23	1
LB8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£1382.58	1
LB10003PSNME	1000A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£1865.73	1



**Europa components**  
**Safe Switch III**

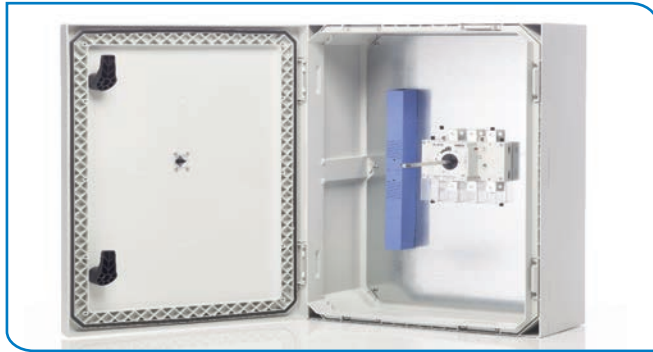
Please see  
**Page 48** for  
technical data



## IP66 GRPC Enclosed Door Interlocked Load Break Switches 160-500A



3 Pole + Neutral Link Enclosed Load Break Switches (IP66)



Bureau Veritas, KEMA and CE Certified  
EN 60947-3



Handle padlockable in the OFF position for up to three padlocks  
IP20 incoming terminal shroud  
Fully rated neutral link (where fitted)  
Neutral switch 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)**  
Handle Padlockable in the off position for up to three padlocks

**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 Colour RAL 7035

Part Number	Description	Price	Per
LB1603PNLGP	160A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£399.41	1
LB2003PNLGP	200A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£436.01	1
LB2503PNLGP	250A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£450.04	1
LB3153PNLGP	315A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£807.36	1
LB4003PNLGP	400A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£901.68	1
LB5003PNLGP	500A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£1020.30	1

3 Pole + Sw. Neutral Enclosed Load Break Switches (IP66)

Part Number	Description	Price	Per
LB1603PSNGP	160A(AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£399.41	1
LB2003PSNGP	200A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£436.01	1
LB2503PSNGP	250A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£450.04	1
LB3153PSNGP	315A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£807.36	1
LB4003PSNGP	400A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£901.68	1
LB5003PSNGP	500A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£1020.30	1

## IP65 Stainless Steel Enclosed Door Interlocked Load Break Switches 160-500A



Bureau Veritas, KEMA and CE Certified  
EN 60947-3

Handle padlockable in the OFF position for up to three padlocks  
**Grade 304 Stainless Steel** / IP20 incoming terminal shroud  
Fully rated neutral link (where fitted)  
Neutral switch 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)**

Part Number	Description	Price	Per
LB1603PNLSS	160A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£469.87	1
LB2003PNLSS	200A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£495.78	1
LB2503PNLSS	250A (AC-22) Enclosed 3P + Neutral Link Load Break Switch	£508.52	1
● LB3153PNLSS	315A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£1000.67	1
● LB4003PNLSS	400A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£1182.59	1
● LB5003PNLSS	500A (AC-23) Enclosed 3P + Neutral Link Load Break Switch	£1398.01	1

3 Pole + Sw. Neutral Enclosed Load Break Switches (IP65)

Part Number	Description	Price	Per
LB1603PSNSS	160A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£469.87	1
LB2003PSNSS	200A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£495.78	1
LB2503PSNSS	250A (AC-22) Enclosed 3P + Sw. Neutral Load Break Switch	£508.52	1
● LB3153PSNSS	315A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£1000.67	1
● LB4003PSNSS	400A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£1182.59	1
● LB5003PSNSS	500A (AC-23) Enclosed 3P + Sw. Neutral Load Break Switch	£1398.01	1

① Technical Specifications for Enclosed & Door Interlock Safe Switch Loadbreak Switches (pages 46, 47 & 54)			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 Iow	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 <sup>2</sup>	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

① 160-1000A Enclosed Load Break Switch 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
<b>3 Pole Load Break Switches XX = either ME / SS / GP</b>				
LB1603PNLXX	With Tunnel Terminals Shroud Sets Not Required		LBAC010	LBAC020
LB2003PNLXX	LBTS010	LBTS010		
LB2503PNLXX				
LB3153PNLXX	LBTS020	LBTS020		
LB4003PNLXX				
LB5003PNLXX	LBTS040	LBTS040		
LB6303PNLXX				
LB8003PNLXX				
LB10003PNLXX				
<b>3 Pole + Switched Neutral Load Break Switches XX = either ME / SS / GP</b>				
LB1603PSNXX	With Tunnel Terminals Shroud Sets Not Required		LBAC010	LBAC020
LB2003PSNXX	LBTS010	LBTS010		
LB2503PSNXX				
LB3153PSNXX	LBTS020	LBTS020		
LB4003PSNXX				
LB5003PSNXX	LBTS040	LBTS040		
LB6303PSNXX				
LB8003PSNXX				
LB10003PSNXX				

① Load Break Switch 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				
LB8003PNLXX	LB8003PSNXX	1000	800	300	360
LB10003PNLXX	LB10003PSNXX	1200			

① Load Break Switch 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				

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

## IP65 Metal Enclosed Door Interlocked Switch Fuses 125-800A

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 3 padlocks  
IP20 incoming terminal shroud  
Fuses fully isolated (top & bottom) for safe replacement  
Fuse covers fitted as standard / Supplied with fully rated fuses and input shrouds  
Neutral switch 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)**

Part Number	Description	Price	Per
LBF1253PNLME	125A Enclosed 3P + Neutral Link BS88 Switch Fuse	£428.25	1
LBF1603PNLME	160A Enclosed 3P + Neutral Link BS88 Switch Fuse	£546.26	1
LBF2003PNLME	200A Enclosed 3P + Neutral Link BS88 Switch Fuse	£570.04	1
LBF3153PNLME	315A Enclosed 3P + Neutral Link BS88 Switch Fuse	£889.65	1
LBF4003PNLME	400A Enclosed 3P + Neutral Link BS88 Switch Fuse	£1095.66	1
LBF6303PNLME	630A Enclosed 3P + Neutral Link BS88 Switch Fuse	£1806.59	1
LBF8003PNLME	800A Enclosed 3P + Neutral Link BS88 Switch Fuse	£2506.16	1

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

Part Number	Description	Price	Per
LBF1253PSNME	125A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£478.74	1
LBF1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£627.96	1
LBF2003PSNME	200A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£667.82	1
LBF3153PSNME	315A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£922.00	1
LBF4003PSNME	400A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£1203.55	1
LBF6303PSNME	630A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£2080.69	1
LBF8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£2743.10	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  
IP20 incoming terminal shroud / Fully rated neutral link (where fitted)  
Neutral switch 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)**  
Handle Padlockable in the off position for up to three padlocks

**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 Colour RAL 7035

Part Number	Description	Price	Per
LBF1253PNLGP	125A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£527.90	1
LBF1603PNLGP	160A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£717.07	1
LBF2003PNLGP	200A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£733.24	1
LBF3153PNLGP	315A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£1209.96	1
LBF4003PNLGP	400A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£1285.13	1

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

Part Number	Description	Price	Per
LBF1253PSNGP	125A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£580.69	1
LBF1603PSNGP	160A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£788.78	1
LBF2003PSNGP	200A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£806.56	1
LBF3153PSNGP	315A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£1330.95	1
LBF4003PSNGP	400A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£1413.64	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  
**Grade 304** Brushed Stainless Steel / IP20 incoming terminal shroud

Fuses fully isolated (top & bottom) for safe replacement

Fuse covers fitted as standard / Supplied with fully rated fuses

Neutral switch contact early make / late break (where fitted)

Fully rated neutral link (where fitted)

Door interlock with defeat mechanism (for authorised personnel only)

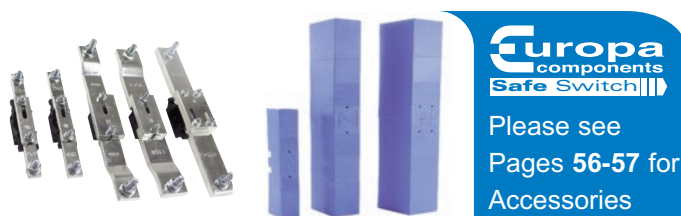
Removable door for easier installation

**All AC ratings at 400V (415V)**

Part Number	Description	Price	Per
LBF1603PNLSS	160A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£802.47	1
LBF2003PNLSS	200A (AC-23) Enclosed 3P + Neutral Link BS88 Switch Fuse	£818.04	1

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

Part Number	Description	Price	Per
LBF1603PSNSS	160A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£892.79	1
LBF2003PSNSS	200A (AC-23) Enclosed 3P + Sw. Neutral BS88 Switch Fuse	£934.62	1



### 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)
<b>BS88 Switch Fuses</b>					
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				

### ① 125-800A BS88 Switch Fuse GP Enclosure Dimensions (mm)

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

### ① 125-800A 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
<b>BS88 3 Pole + Neutral Link Switch Fuse</b>				
LBF1253PNLXX	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBF1603PNLXX	LBTS050	LBTS060	LBAC010	LBAC020
LBF2003PNLXX				
LBF3153PNLXX	LBTS080	LBTS090	LBAC010	LBAC020
LBF4003PNLXX				
LBF6303PNLXX	LBTS110	LBTS120	LBAC010	LBAC020
LBF8003PNLXX				
<b>BS88 3 Pole + Switched Neutral Switch Fuse</b>				
LBF1253PSNXX	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBF1603PSNXX	LBTS070	LBTS070	LBAC010	LBAC020
LBF2003PSNXX				
LBF3153PSNXX	LBTS100	LBTS100	LBAC010	LBAC020
LBF4003PSNXX				
LBF6303PSNXX	LBTS130	LBTS130	LBAC010	LBAC020
LBF8003PSNXX				

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

① Technical Specifications for Enclosed & Door Interlock Safe Switch - Switch Fuses			Switch Types						
			LBF125	LBF160	LBF200	LBF315	LBF400	LBF630	LBF800
			Lbfd125	Lbfd160	Lbfd200	Lbfd315	Lbfd400	Lbfd630	Lbfd800P
Data	Range	Units							
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	100	100	100	100	100	100
Rated short circuit withstand current (rms) with fuses fitted	Amps	kA	100	100	100	100	100	100	100
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 <sup>2</sup>	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

		A2-A4 Fuse		B1-B4 Fuse		C1-C4 Fuse			
Dimensions	A	ø B	D	G	H	J	L		
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			

## 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 incoming terminal shroud  
Break before make 3 position switch - centre OFF  
Neutral switch contact early make / late break / Top & bottom gland plates  
Door interlock with defeat mechanism (for authorised personnel only)  
Removable door for easier installation / **All AC switch ratings 400V (415V)**



Part Number	Description	Price	Per
LBC1603PSNME	160A (AC-23) Enclosed 3P + Sw. Neutral Changeover Switch	£541.57	1
LBC2003PSNME	200A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£642.98	1
LBC2503PSNME	250A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£743.69	1
LBC3153PSNME	315A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£1000.82	1
LBC4003PSNME	400A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£1197.54	1
LBC6303PSNME	630A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£1618.64	1
LBC8003PSNME	800A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£2054.65	1
LBC10003PSNME	1000A (AC-23) Enclosed 3P + Sw. Neutral Changeover Switch	£3153.26	1

## 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 incoming terminal shroud  
Fully rated neutral link (where fitted)  
Neutral switch 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)**  
Handle Padlockable in the off position for up to three padlocks  
Break before make 3 position switch - centre OFF  
**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 Colour RAL 7035**

Part Number	Description	Price	Per
LBC1603PSNGP	160A (AC-23) Enclosed 3P + Sw. Neutral Changeover Switch	£620.95	1
LBC2003PSNGP	200A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£741.80	1
LBC2503PSNGP	250A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£853.51	1
LBC3153PSNGP	315A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£1156.67	1
LBC4003PSNGP	400A (AC-22) Enclosed 3P + Sw. Neutral Changeover Switch	£1372.09	1

listed in  
**LUCKINSlive™**

Look out for the new range of Glass Fibre Reinforced Polycarbonate (GRPC) Enclosed Loadbreaks, Switch Fuses and Changeover Switches...



① 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 lth 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 <sup>2</sup>	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

① 160-1000A Changeover Switch Metal Enclosure Dimensions (mm)				
Switched Neutral	Height (mm)	Width (mm)	Depth (mm)	Depth inc. Handle (mm)
LBC1603PSNME	500	400	200	260
LBC2003PSNME				
LBC2503PSNME				
LBC3153PSNME	800	600	300	360
LBC4003PSNME				
LBC6303PSNME	1000	800	300	360
LBC8003PSNME				
LBC10003PSNME				

① 160-400A 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				

① 160-1000A 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 Load Break Switches 160-1000A



**i** Technical data - page 48



**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)  
 Terminal shrouds supplied separately / **All AC ratings 400V (415V)**



### 3 Pole Door Interlocked Load Break Switches

Part Number	Description	Price	Per
LBD1603P	160A (AC-23) Door Interlock 3P Load Break Switch & Handle	£116.13	1
LBD2003P	200A (AC-22) Door Interlock 3P Load Break Switch & Handle	£135.64	1
LBD2503P	250A (AC-22) Door Interlock 3P Load Break Switch & Handle	£148.17	1
LBD3153P	315A (AC-23) Door Interlock 3P Load Break Switch & Handle	£199.96	1
LBD4003P	400A (AC-23) Door Interlock 3P Load Break Switch & Handle	£278.87	1
LBD5003P	500A (AC-23) Door Interlock 3P Load Break Switch & Handle	£308.12	1
LBD6303P	630A (AC-23) Door Interlock 3P Load Break Switch & Handle	£336.77	1
LBD8003P	800A (AC-22) Door Interlock 3P Load Break Switch & Handle	£561.56	1
LBD10003P	1000A (AC-22) Door Interlock 3P Load Break Switch & Handle	£877.45	1

### 3 Pole + Sw. Neutral Door Interlocked Load Break Switches

Part Number	Description	Price	Per
LBD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£124.89	1
LBD2003PSN	200A (AC-22) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£145.36	1
LBD2503PSN	250A (AC-22) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£158.33	1
LBD3153PSN	315A (AC-23) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£212.91	1
LBD4003PSN	400A (AC-23) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£296.10	1
LBD5003PSN	500A (AC-23) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£339.18	1
LBD6303PSN	630A (AC-23) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£361.31	1
LBD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£595.51	1
LBD10003PSN	1000A (AC-22) Door Interlock 3P + Sw. Neutral LB Switch & Handle	£1008.16	1

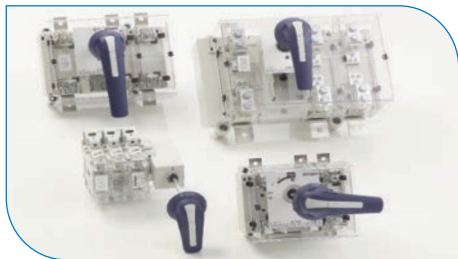
### **i** 160-1000A Load Break Switch Accessory Selection Table

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



## Door Interlocked BS88 Switch Fuses 125-800A

### 3 Pole Door Interlocked BS88 Switch Fuses



**i** Technical data - pages 50 - 51



#### 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)  
Fuses fully isolated (top & bottom) for safe replacement  
Fuse covers fitted as standard /  
**NB:** Fuses supplied separately (Bolted Type)  
Neutral switch contact early make / late break (where fitted)  
Terminal shrouds supplied separately / **All AC ratings 400V (415V)**

Part Number	Description	Price	Per
LBFD1253P	125A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£205.47	1
LBFD1603P	160A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£337.11	1
LBFD2003P	200A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£349.29	1
LBFD3153P	315A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£474.03	1
LBFD4003P	400A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£526.29	1
LBFD6303P	630A (AC-23) Door Interlock 3P BS88 Switch Fuse & Handle	£955.00	1
LBFD8003P	800A (AC-22) Door Interlock 3P BS88 Switch Fuse & Handle	£1137.69	1

### 3 Pole + Sw. Neutral Door Interlocked BS88 Switch Fuses

Part Number	Description	Price	Per
LBFD1253PSN	125A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£261.41	1
LBFD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£421.27	1
LBFD2003PSN	200A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£428.36	1
LBFD3153PSN	315A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£552.43	1
LBFD4003PSN	400A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£583.88	1
LBFD6303PSN	630A (AC-23) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£1066.78	1
LBFD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral BS88 Switch Fuse & Handle	£1273.31	1

## Door Interlocked Changeover Switches 160-1000A

### 3 Pole + Sw. Neutral Door Interlocked Changeover Switches



**i** Technical data - page 53

#### 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)  
Terminal shrouds supplied separately / **All AC ratings 400V (415V)**  
Break before make 3 position switch - centre OFF

Part Number	Description	Price	Per
LBKD1603PSN	160A (AC-23) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£344.38	1
LBKD2003PSN	200A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£428.93	1
LBKD2503PSN	250A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£513.21	1
LBKD3153PSN	315A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£589.24	1
LBKD4003PSN	400A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£666.12	1
LBKD6303PSN	630A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£967.05	1
LBKD8003PSN	800A (AC-22) Door Interlock 3P + Sw. Neutral C/O Switch & Handle	£1314.22	1
LBKD10003PSN	1000A (AC-23) Door Interlock 3P + Sw. Neutral C/O Switch and Handle	£2079.75	1

#### **i** 160-1000A Changeover Switch 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
<b>BS88 3 Pole Switch Fuse</b>				
LBFD1253P	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBFD1603P	LBTS050	LBTS060	LBAC010	LBAC020
LBFD2003P				
LBFD3153P	LBTS080	LBTS090	LBAC010	LBAC020
LBFD4003P				
LBFD6303P	LBTS110	LBTS120	LBAC010	LBAC020
LBFD8003P				
<b>BS88 3 Pole + Switched Neutral Switch Fuse</b>				
LBFD1253PSN	With Tunnel Terminals Shroud Sets Not Required		LBAC050	LBAC060
LBFD1603PSN	LBTS070	LBTS070	LBAC010	LBAC020
LBFD2003PSN				
LBFD3153PSN	LBTS100	LBTS100	LBAC010	LBAC020
LBFD4003PSN				
LBFD6303PSN	LBTS130	LBTS130	LBAC010	LBAC020
LBFD8003PSN				

#### **i** 125-800A Switch Fuse Accessory Selection Table

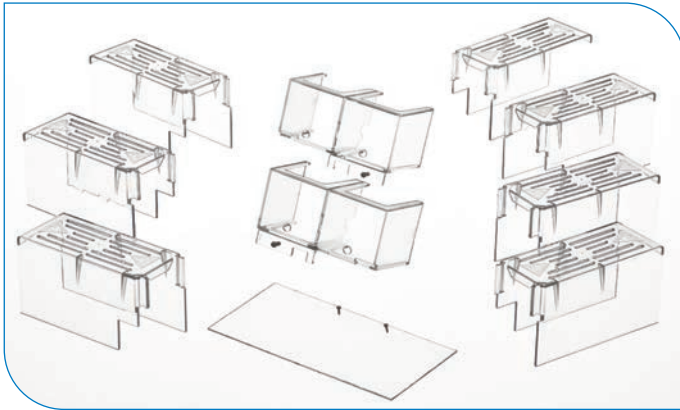
Part Number (Door Interlock)	Input Terminal Shroud	Output Terminal Shroud	Aux. Contact 1NO & 1NC	Aux. Contact 2NO & 2NC
<b>3 Pole + Switched Neutral Changeover Switches</b>				
LBKD1603PSN	LBTS010	LBTS010	LBAC030	LBAC040
LBKD2003PSN				
LBKD2503PSN	LBTS070	LBTS140	LBAC010	LBAC020
LBKD3153PSN				
LBKD4003PSN	LBTS100	LBTS150	LBAC010	LBAC020
LBKD6303PSN				
LBKD8003PSN	LBTS130	LBTS170	LBAC010	LBAC020
LBKD10003PSN				

**NB:** LBKD 315-1000A Changeover Switches require 2 sets of input shrouds for input I and input II.

## Accessories for Safe Switch Range



### Terminal Shrouds for Safe Switch Range



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

Part Number	Description	Price	Per
LBTS010	Shroud Set for LB200-250A LBC 160-250A 3P 3PSN (input / output)	£7.25	1
LBTS020	Shroud Set for LB315A 3P 3PSN (input / output)	£9.03	1
LBTS030	Shroud Set for LB400A 3P 3PSN (input / output)	£16.16	1
LBTS040	Shroud Set for LB630-800A (input / output)	£11.13	1
LBTS050	Shroud Set for LBF160-200A 3P (input)	£11.52	1
LBTS060	Shroud Set for LB160-200A 3P (output)	£11.52	1
LBTS070 **	Shroud Set for LBF160-200A 3PSN, LBC315-400A (input)	£17.58	1
LBTS080	Shroud Set for LBF315-400A 3P (input)	£25.41	1
LBTS090	Shroud Set for LBF315-400A 3P (output)	£25.41	1
LBTS100 **	Shroud Set for LBF315-400A 3PSN, LBC630-800A (input)	£31.23	1
LBTS110	Shroud Set for LBF630-800A 3P (input)	£31.23	1
LBTS120	Shroud Set for LBF630-800A 3P (output)	£31.23	1
LBTS130 * **	Shroud Set for LBF630-800A 3PSN (input / output)	£33.95	1
LBTS140	Shroud Set for LBC315-400A 3PSN (output)	£16.73	1
LBTS150	Shroud Set for LBC630-800A 3PSN (output)	£27.19	1
LBTS160	Shroud Set for LB1000A (Input or output)	£15.57	1
LBTS170	Shroud Set for LBC1000A (Output)	£33.01	1

\* Shroud for LBF630-800A (input / output) is also suitable for the LBC1000A (input)

\*\* NB: 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	1 N/O + 1 N/C Aux. Contact for LB,LBF 160-800A, LBC 315-800A	£12.02	1
LBAC020	2 N/O + 2 N/C Aux. Contact for LB,LBF 160-800A, LBC 315-800A	£29.61	1
LBAC030	1 N/O + 1 N/C Aux. Contact for LBC 160-250A	£12.89	1
LBAC040	2 N/O + 2 N/C Aux. Contact for LBC 160-250A	£33.57	1
LBAC050	1 N/O + 1 N/C Aux. Contact for LBF125A	£16.73	1
LBAC060	2 N/O + 2 N/C Aux. Contact for LBF125A	£27.86	1

### 160-250A Replacement Bridging Links for Safe Switch Range



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

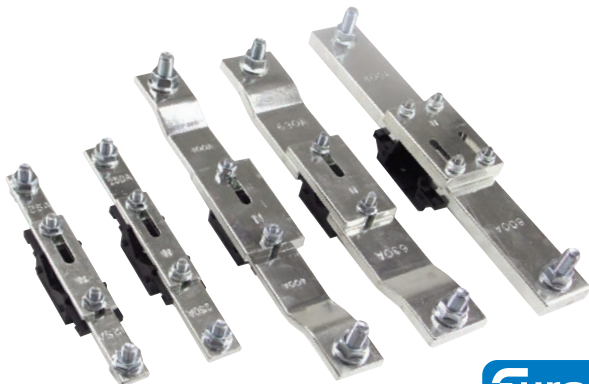
ⓘ Bridging links are not required for switches rated at 315-800A as  
these come complete with internal bridging links

#### Rated up to 250A

Part Number	Description	Price	Per
LBCL010	Bridging Links LBC 160-250A	£34.68	1

**NB:** Both enclosed and door interlock LBC160 - 250A switches are  
supplied with Bridging Links as standard.

## 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

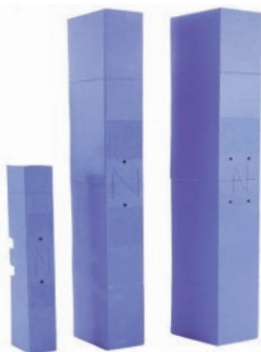
Impulse Voltage Uimp: 8kV / Easy to use link disconnect



UL 94-VO shroud covers available for added protection

Part Number	Description	Price	Per
LBNL125A	Neutral Link 125A	£27.82	1
LBNL250A	Neutral Link 250A	£28.86	1
LBNL400A	Neutral Link 400A	£59.85	1
LBNL630A	Neutral Link 630A	£85.51	1
LBNL800A	Neutral Link 800A	£171.00	1
LBNL1000A	Neutral Link 1000A	£250.12	1

## 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 250A Neutral Link Terminal	£17.10	1
LBNLTS630A	Shroud for 400-630A Neutral Link Terminal	£42.75	1
LBNLTS800A	Shroud for 800-1000A Neutral Link Terminal	£49.17	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
LBPBHW010	For LB160-250A	£29.81	1
LBPBHW020	For LB315-400A + LBF160-200A	£56.69	1
LBPBHW030	For LB630-800A	£59.26	1
LBPBHW040	For LBF315-400A	£64.44	1
LBPBHW050	For LBF630-800A	£57.41	1
LBPBHW060	For LBC160-250A	£31.33	1
LBPBHW070	For LBC315-400A	£54.64	1
LBPBHW080	For LBC630-800A	£59.94	1
LBPBHW090	For LB1000A	£65.36	1
LBPBHW100	For LBF125A	£41.45	1
LBPBHW110	For LBC1000A	£102.01	1

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

## Red and Yellow Handle and 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	£33.34	1
LBPHRY020	For LB315-400A & LBF160-200A	£62.12	1
LBPHRY030	For LB630-800A	£67.59	1
LBPHRY040	For LBF315-400A	£71.41	1
LBPHRY050	For LBF630-800A	£75.17	1
LBPHRY090	For LB1000A	£85.07	1
LBPHRY100	For LBF125A	£47.05	1

## Extended Shaft for Safe Switch Range



Specially designed for use with the Safe Switch Range of Door Interlocked Load Break, BS88 Switch Fuse and Changeover Switches. These extended shafts assist in the installation of the switches into deep enclosures and panel boards.

Part Number	Description	Price	Per
LBES010	For LB & LBC160-250A 250mm	£11.65	1
LBES020	For LB & LBC160-250A & LBF125 387mm	£12.88	1
LBES030	For LB & LBC315-400A & LBF160-200 375mm	£14.29	1
LBES040	For LB & LBC315-400A & LBF160-200A 536mm	£17.76	1
LBES050	For LB & LBC630-1000A & LBF315-800 345mm	£19.58	1
LBES060	For LB & LBC630-1000A & LBF315-800A 535mm	£22.51	1

### Load Break (Isolator) Switches



### 3 Pole Boxed Isolators (IP65)



Europa 3 & 4 Pole AC  
Rotary Isolators are  
ideal for the AC side of  
the inverter in  
photovoltaic installations.



CB, CE, SEMKO, UL508  
IEC & EN 60947-3

20mm Knock-outs up to 40A / 25mm on 63 & 80A  
Easy Access & Switch Removal / Flame Retardant Material  
Padlockable for Added Security  
All Switch Ratings at AC21- See page 66 for technical data

Part Number	Description	Price	Per
LB323P	32A 3 Pole (Insulated Enclosure)	£16.84	1
LB403P	40A 3 Pole (Insulated Enclosure)	£22.49	1
LB633P	63A 3 Pole (Insulated Enclosure)	£26.07	1
LB803P	80A 3 Pole (Insulated Enclosure)	£28.23	1

### 3 Pole + Sw. Neutral Boxed Isolators (IP65)



Early Make / Late Break  
Neutral Contact.

Supplied in blue for  
easy identification.

CB, CE, SEMKO, UL508  
IEC & EN 60947-3

20mm Knock-outs up to 40A / 25mm on 63 to 125A  
Easy Access & Switch Removal / Flame Retardant Material  
Padlockable for Added Security

#### Switch Ratings:

AC21 20-80A - See page 66 for technical data  
AC-22 100 & 125A - See page 67 for technical data

Part Number	Description	Price	Per
LB203PSN	20A 3P Sw. Neutral (Insulated Enclosure)	£16.34	1
LB253PSN	25A 3P Sw. Neutral (Insulated Enclosure)	£19.19	1
LB323PSN	32A 3P Sw. Neutral (Insulated Enclosure)	£21.15	1
LB403PSN	40A 3P Sw. Neutral (Insulated Enclosure)	£26.83	1
LB633PSN	63A 3P Sw. Neutral (Insulated Enclosure)	£30.91	1
LB803PSN	80A 3P Sw. Neutral (Insulated Enclosure)	£33.59	1
LB1003PSN	100A 3P Sw. Neutral (Insulated Enclosure)	£79.79	1
LB1253PSN	125A 3P Sw. Neutral (Insulated Enclosure)	£88.18	1

#### 3 Pole + Sw. Neutral Boxed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB203PSN LB253PSN LB323PSN LB403PSN	125	100	74	118
LB633PSN LB803PSN	175	125	90	134
LB1003PSN LB1253PSN	270	215	122	182

4 Pole Isolators are supplied with 4 main poles (except changeover switches), all opening & closing simultaneously. Some applications require that the neutral pole is Early Make Late Break. (Refer to the 3P + Switch Neutral Range above and on pages 59 & 60).

#### 3 Pole Boxed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB323P	125	100	74	118
LB403P				
LB633P	175	125	90	134
LB803P				

4 Pole Boxed Isolators (IP65)



CB, CE, SEMKO, UL508

IEC & EN 60947-3

20mm Knock-outs up to 40A / 25mm on 63 to 125A

Easy Access & Switch Removal / Flame Retardant Material

Padlockable for Added Security

Switch Ratings:

AC21 20-80A - See page 66 for technical data

AC-22 100 & 125A - See page 67 for technical data

Part Number	Description	Price	Per
LB204P	20A 4 Pole (Insulated Enclosure)	£13.10	1
LB254P	25A 4 Pole (Insulated Enclosure)	£15.67	1
LB324P	32A 4 Pole (Insulated Enclosure)	£17.11	1
LB404P	40A 4 Pole (Insulated Enclosure)	£22.17	1
LB634P	63A 4 Pole (Insulated Enclosure)	£25.53	1
LB804P	80A 4 Pole (Insulated Enclosure)	£27.81	1
LB1004P	100A 4 Pole (Insulated Enclosure)	£63.90	1
LB1254P	125A 4 Pole (Insulated Enclosure)	£76.67	1

4 Pole Larger Enclosure Version (IP65)



More  
wiring  
space

① Ideal for armoured cable

CB, CE, SEMKO, UL508

IEC & EN 60947-3

25mm Knock-outs / Easy Access & Switch Removal / Flame Retardant Material / Padlockable For Added Security

All Switch Ratings at AC21- See page 66 for technical data

Part Number	Description	Price	Per
LB254PBB	25A 4 Pole (Insulated Enclosure)	£20.52	1
LB324PBB	32A 4 pole (Insulated Enclosure)	£24.90	1
LB404PBB	40A 4 Pole (Insulated Enclosure)	£28.42	1

Height	Width	Depth	Depth (Inc Switch)
175mm	125mm	90mm	134mm

3 Pole Metal Clad Enclosed Isolator (IP54)



CB, CE, SEMKO

IEC & EN 60947-3 /

Metal Clad Enclosure: Epoxy Coated Steel

Padlockable for Added Security

Box Lid RAL: 7032 / Back Box RAL: 7043

All Switch Ratings at AC21- See page 66 for technical data



Part Number	Description	Price	Per
LB253PSTB	25A 3 Pole (Metal Clad Enclosure)	£28.11	1
LB323PSTB	32A 3 Pole (Metal Clad Enclosure)	£33.05	1
LB403PSTB	40A 3 Pole (Metal Clad Enclosure)	£38.41	1
LB633PSTB	63A 3 Pole (Metal Clad Enclosure)	£40.37	1
LB803PSTB	80A 3 Pole (Metal Clad Enclosure)	£45.28	1

Height	Width	Depth	Depth (Inc Switch)
220	145	90	134

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



Early Make / Late Break  
Neutral Contact.

Supplied in blue for  
easy identification.



CB, CE, SEMKO, UL508

IEC & EN 60947-3 / 25mm Knock-outs

Easy Access & Switch Removal / Flame Retardant Material

Padlockable for Added Security

All Switch Ratings at AC21- See page 66 for technical data

Part Number	Description	Price	Per
LB253PSNBB	25A 3P Sw. Neutral (Insulated Enclosure)	£24.61	1
LB323PSNBB	32A 3P Sw. Neutral (Insulated Enclosure)	£29.47	1
LB403PSNBB	40A 3P Sw. Neutral (Insulated Enclosure)	£32.71	1

Height	Width	Depth	Depth (Inc Switch)
175mm	125mm	90mm	134mm

listed in  
**LUCKINS**live™



EUBPADLOCK	Padlock (3 per pack) Use to lock OFF Isolators	£9.46	Pack
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## 4 Pole Metal Clad Enclosed Isolator (IP54)



**CB, CE, SEMKO**  
**IEC & EN 60947-3**

Metal Clad Enclosure: Epoxy Coated Steel / Padlockable for Added Security  
Box Lid RAL: 7032 / Back Box RAL: 7043

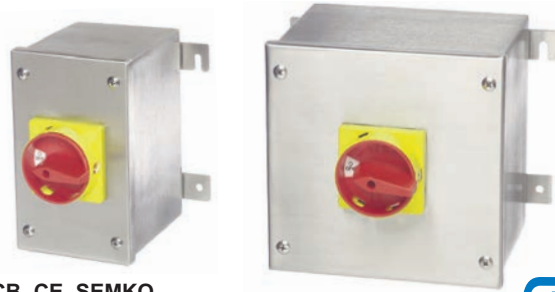
**Switch Ratings:**

**AC21 20-80A** - See page 66 for technical data

**AC-22 100 & 125A** - See page 67 for technical data

Part Number	Description	Price	Per
LB254PSTB	25A 4 Pole (Metal Clad Enclosure)	£29.60	1
LB324PSTB	32A 4 Pole (Metal Clad Enclosure)	£33.97	1
LB404PSTB	40A 4 Pole (Metal Clad Enclosure)	£39.84	1
LB634PSTB	63A 4 Pole (Metal Clad Enclosure)	£42.00	1
LB804PSTB	80A 4 Pole (Metal Clad Enclosure)	£47.85	1
LB1004PSTB	100A 4 Pole (Metal Clad Enclosure)	£78.97	1
LB1254PSTB	125A 4 Pole (Metal Clad Enclosure)	£85.19	1

## 4 Pole Stainless Steel Enclosed Isolator (IP65)



**CB, CE, SEMKO**  
**IEC & EN 60947-3**

Grade 304 Brushed Stainless Steel / External Fixing Brackets  
Particularly Suitable for Pharmaceutical & Food Preparation Areas  
**All Switch Ratings at AC22** - See page 67 for technical data

Part Number	Description	Price	Per
LB254PSS	25A 4 Pole	£120.00	1
LB324PSS	32A 4 Pole	£120.00	1
LB404PSS	40A 4 pole	£151.05	1
LB634PSS	63A 4 pole	£148.00	1
LB804PSS	80A 4 pole	£184.31	1

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

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB254PSS	173	100	120	164
LB324PSS				
LB404PSS				
LB634PSS				
LB804PSS	178	178	135	179

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

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB254PSTB	220	145	90	134
LB324PSTB				
LB404PSTB				
LB634PSTB				
LB804PSTB				
LB1004PSTB				
LB1254PSTB	270	215	125	185

## 4 Pole Metal Clad Enclosed Isolator (IP65)



**CB, CE, SEMKO**  
**IEC & EN 60947-3**

Metal Clad Enclosure: Epoxy Coated Steel RAL: 7035  
Padlockable for Added Security

**All Switch Ratings at AC22** - See page 67 for technical data

Part Number	Description	Price	Per
LB254PST	25A 4 Pole (Metal Clad Enclosure)	£61.64	1
LB324PST	32A 4 Pole (Metal Clad Enclosure)	£64.13	1
LB404PST	40A 4 Pole (Metal Clad Enclosure)	£68.19	1
LB634PST	63A 4 Pole (Metal Clad Enclosure)	£72.70	1
LB804PST	80A 4 Pole (Metal Clad Enclosure)	£80.88	1

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

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB254PST	173	100	120	164
LB324PST				
LB404PST				
LB634PST				
LB804PST	178	178	135	179



Early Make / Late Break  
Neutral Contact.  
Supplied in blue for  
easy identification.



**CB, CE, SEMKO**  
**IEC & EN 60947-3**

Robust Die Cast Enclosure  
Padlockable for Added Security  
Box Lid RAL: 7032 / Back Box RAL: 7043

**All Switch Ratings at AC21** - See page 66 for technical data



Part Number	Description	Price	Per
LB253PSNAL	25A 3P Sw. Neutral (Die Cast Enclosure)	£52.17	1
LB323PSNAL	32A 3P Sw. Neutral (Die Cast Enclosure)	£55.58	1
LB403PSNAL	40A 3P Sw. Neutral (Die Cast Enclosure)	£61.39	1
LB633PSNAL	63A 3P Sw. Neutral (Die Cast Enclosure)	£63.04	1

Height	Width	Depth	Depth (Inc Switch)
152mm	140mm	100mm	144mm

## 4 Pole Die Cast Enclosed Isolators (IP65)



See page 64 for Europa Load Break Enclosure Add on Auxiliary Look up Table.



CB, CE, SEMKO  
IEC & EN 60947-3

Robust Die Cast Enclosure / Padlockable for Added Security  
Box Lid RAL: 7032 / Back Box RAL: 7043  
All Switch Ratings at AC21 - See page 66 for technical data



Part Number	Description	Price	Per
LB254PAL	25A 4 Pole (Die Cast Enclosure)	£42.20	1
LB324PAL	32A 4 Pole (Die Cast Enclosure)	£48.33	1
LB404PAL	40A 4 Pole (Die Cast Enclosure)	£53.39	1
LB634PAL	63A 4 Pole (Die Cast Enclosure)	£54.82	1

Height	Width	Depth	Depth (Inc Switch)
152mm	140mm	100mm	144mm

## 6 Pole Enclosed Isolators (IP65)



CB, CE, SEMKO  
IEC & EN 60947-3

Padlockable for Added Security



Insulated Enclosure: UL508 / 25mm Knock-outs  
Easy Access & Switch Removal / Flame Retardant Material

Steel Enclosure: Bottom Gland Plate / Epoxy Coated RAL: 7035

All Switch Ratings at AC22 - See page 67 for technical data

Part Number	Description	Price	Per
LB256P	25A 6 Pole (Insulated Enclosure)	£45.16	1
● LB256P16RM	25A 6 Pole + 1N/C & 1N/O Aux (Insulated Enclosure)	£51.00	1
LB326P	32A 6 Pole (Insulated Enclosure)	£47.05	1
● LB326P16RM	32A 6 Pole + 1N/C & 1N/O Aux (Insulated Enclosure)	£53.00	1
LB406P	40A 6 Pole (Insulated Enclosure)	£49.21	1
LB636P	63A 6 Pole (Steel Enclosure)	£110.53	1
LB806P	80A 6 Pole (Steel Enclosure)	£132.55	1
LB1256P	125A 6 Pole (Steel Enclosure)	£151.71	1

### 6 Pole Enclosed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB256P	280	190	130	190
LB326P				
LB406P				
LB636P	400	300	200	260
LB806P				
LB1256P				

## 8 Pole Enclosed Isolators (IP65)



CB, CE, SEMKO  
IEC & EN 60947-3

Padlockable for Added Security



Insulated Enclosure: UL508

25mm Knock-outs / Easy Access & Switch Removal / Flame Retardant Material

Steel Enclosure: Bottom Gland Plate / Epoxy Coated RAL: 7035

All Switch Ratings at AC22 - See page 67 for technical data

Part Number	Description	Price	Per
LB258P	25A 8 Pole (Insulated Enclosure)	£47.86	1
LB328P	32A 8 Pole (Insulated Enclosure)	£52.24	1
LB408P	40A 8 Pole (Insulated Enclosure)	£54.60	1

LB638P	63A 8 Pole (Steel Enclosure)	£113.08	1
LB808P	80A 8 Pole (Steel Enclosure)	£139.63	1
LB1258P	125A 8 Pole (Steel Enclosure)	£158.82	1

### 8 Pole Enclosed Isolator Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)
LB258P	280	190	130	190
LB328P				
LB408P				
LB638P	400	300	200	260
LB808P				
LB1258P				

## 2 Pole Enclosed Changeover Switches (IP65)



Bureau Veritas, Lloyds Registered and CE Certified  
EN 60947-3 / All Switch Ratings AC-21A

Part Number	Description	Price	Per
LBC252P	25A 2 Pole (Insulated Enclosure)	£58.50	1
LBC322P	32A 2 Pole (Insulated Enclosure)	£78.91	1
LBC402P	40A 2 Pole (Insulated Enclosure)	£113.88	1
LBC632P	63A 2 Pole (Insulated Enclosure)	£150.10	1
LBC1002P	100A 2 Pole (Insulated Enclosure)	£228.26	1

### 2 Changeover Switch (IP65) Dimensions (mm)

Part Number	Height	Width	Depth	Depth (Inc Switch)
LBC252P	175	151	95	129
LBC322P				
LBC402P				
LBC632P	180	182	137	178
LBC1002P	254	180		

## 4 Pole Enclosed Changeover Switches



**CB, CE, SEMKO**  
**IEC & EN 60947-3**  
Padlockable for Added Security

**Insulated Enclosure:**  
UL508 / (IP65) / 25mm Knock-outs /  
Easy Access & Switch Removal  
Flame Retardant Material

**Metal Clad Enclosure (STB): (IP54)**  
Box Lid **RAL: 7032**  
Back Box **RAL: 7043**

**Steel Enclosure: (IP65)**  
Bottom Gland Plate  
Epoxy Coated Steel  
**RAL: 7035**



● **Glass Reinforced Polycarbonate Enclosure: (IP65) / RAL: 7035**

Part Number	Description	Price	Per
LBC254P	25A 4 Pole (Insulated Enclosure)	£46.50	1
LBC324P	32A 4 Pole (Insulated Enclosure)	£51.89	1
LBC404P	40A 4 Pole (Insulated Enclosure)	£55.28	1
LBC254PSTB	25A 4 Pole (Metal Clad Enclosure)	£74.72	1
LBC324PSTB	32A 4 Pole (Metal Clad Enclosure)	£79.20	1
LBC404PSTB	40A 4 Pole (Metal Clad Enclosure)	£86.00	1
LBC634PSTB	63A 4 Pole (Metal Clad Enclosure)	£108.97	1
LBC634P	63A 4 Pole (Steel Enclosure)	£150.64	1
LBC804P	80A 4 Pole (Steel Enclosure)	£237.90	1
LBC1254P	125A 4 Pole (Steel Enclosure)	£265.26	1
LBC1254PGP	125A 4 Pole (Glass Reinforced Polycarbonate Enclosure)	£342.38	1

**All Switch Ratings at AC22 - See page 67 for technical data**

Break before make 3 position switch - centre OFF

**NB:** 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 Switch)
LBC254P	280	190	130	190
LBC324P				
LBC404P				
LBC254PSTB	270	215	125	185
LBC324PSTB				
LBC404PSTB				
LBC634PSTB				
LBC634P	400	300	200	260
LBC804P				
LBC1254P				
LBC1254PGP	500	400	210	270

## Firefighter's Switch

### IP65 Aluminium Enclosed Firefighter's Switch



**CE Certified**  
**EN 60947-3**

4 x M25 Threaded Entries  
1 x M16 Threaded Entry (Top)  
Epoxy Powder Coated

Die Cast Aluminium Enclosure / Padlockable in the OFF Position



Part Number	Description	Price	Per
FF403PAL	40A Enclosed 3 Pole + Neutral Firefighter's Switch	£70.50	1
FF403PSNAL	40A Enclosed 3P + Sw. Neutral Firefighter's Switch	£78.75	1

Height	Width	Depth
157mm	126mm	69

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 <sup>2</sup>	2.5
			Max-mm <sup>2</sup>	6
Recommended Tightening Torque			Nm	1.2



## Door Interlocked Fused Switches

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



CE / CB & SEMKO Certified switch 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 126-129)  
Top and bottom gland plates / **All switch ratings AC-22**

Part Number	Description	Price	Per
1 FS323PSNME	32A Enclosed 3P + Sw. Neutral Fused Switch	£95.64	1
2 FS633PSNME	63A Enclosed 3P + Sw. Neutral Fused Switch	£155.44	1
2 FS803PSNME	80A Enclosed 3P + Sw. Neutral Fused Switch	£167.00	1
2 FS1003PSNME	100A Enclosed 3P + Sw. Neutral Fused Switch	£188.45	1



Europa  
components

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 127)	10mm <sup>2</sup>
FS633PSNME	500	300	200	244	22 x 58 (see page 129)	35mm <sup>2</sup>
FS803PSNME						
FS1003PSNME						

For Fused Switches over 100A see our Safe Switch range on pages 49-50

## Door Interlock Load Break Switches

Door Interlock with Metal Shaft

Europa  
components

3 Pole

6 Pole



CB, CE, SEMKO, UL508

IEC & EN 60947-3 / Padlockable for added security / Din Rail mount (Metal shaft 282mm 3P / 94mm 6P)  
Shaft 8mm across flats (hexagonal)

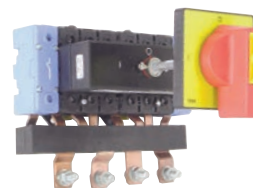
All Switch Ratings at AC22 - See page 67 for technical data

Part Number	Description	Price	Per
LBDI253P	25A 3 Pole Door Interlocked	£17.05	1
LBDI323P	32A 3 Pole Door Interlocked	£20.42	1
LBDI403P	40A 3 Pole Door Interlocked	£22.67	1
LBDI633P	63A 3 Pole Door Interlocked	£26.16	1
LBDI803P	80A 3 Pole Door Interlocked	£31.86	1
LBDI1003P	100A 3 Pole Door Interlocked	£36.19	1
LBDI1253P	125A 3 Pole Door Interlocked	£41.51	1
LBDI256P	25A 6 Pole Door Interlocked	£38.88	1
LBDI326P	32A 6 Pole Door Interlocked	£43.11	1
LBDI406P	40A 6 Pole Door Interlocked	£43.84	1
LBDI636P	63A 6 Pole Door Interlocked	£48.09	1
LBDI806P	80A 6 Pole Door Interlocked	£70.11	1
LBDI1256P	125A 6 Pole Door Interlocked	£89.28	1

## Door Interlock Changeover Switches

Door Interlock Change Over

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, UL508 / IEC & EN 60947-3

2 Hole Rear Mount Or Snap On Din Rail Mount (35mm)  
Door Interlock (Door Openable In OFF Position Only)

Padlockable for added security

All Switch Ratings at AC22 - See page 67 for technical data

Part Number	Description	Price	Per
LBCDI254P	25A 4 Pole	£39.67	1
LBCDI404P	40A 4 Pole	£43.64	1
LBCDI634P	63A 4 Pole	£55.96	1
LBCDI804P	80A 4 Pole	£92.68	1
LBCDI1254P	125A 4 Pole	£111.87	1

Complete with Bus Bars. Metal Shaft 98mm - Shaft 8mm across flats (hexagonal). A 282mm shaft is available on request.

## Accessories for Boxed and Door Interlocked Isolators

### Europa Load Break Enclosure / Add on Auxiliary Table

Load Break Enclosure / Switch Size	Potential No. of Additional Auxiliaries
3P Boxed 32-80A	1 Auxiliary
3P + Sw. Neutral Boxed 20-40A	-
4P Boxed 20-40A	-
3P + Sw. Neutral Boxed 63-80A	1 Auxiliary
4P Boxed 63-80A	1 Auxiliary
3P + Sw. Neutral Boxed 100-125A	-
4P Boxed 100-125A	-
3P + Sw.BB Neutral (Larger Enclosure) 25-40A	1 Auxiliary
4PB (Larger Enclosure) 25-40A	1 Auxiliary
3P Metal Clad 25-80A	1 Auxiliary
4P Metal Clad 25-125A	1 Auxiliary
3P + Sw. Neutral Diecast 25-63A	1 Auxiliary
4P Diecast 25-63A	1 Auxiliary
4P Stainless Steel 25-40A	-
4P Stainless Steel 63-80A	1 Auxiliary
6P Boxed 25-40A	2 Auxiliaries (1 either side)
6P Boxed 63-125A	2 Auxiliaries (1 either side)
8P Boxed 25-40A	-
8P Boxed 63-125A	-
4P Boxed Change Over 25-40A	-
4P Metal Clad Change Over 32-63A	-
4P Metal Enc Change Over 63-125A	-

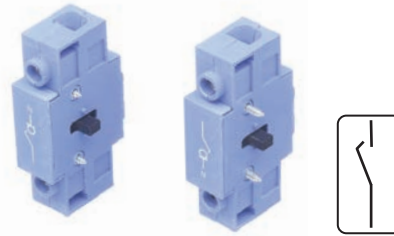
### Load Break Switch - Operating Temperatures (from page 58)

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 higher 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.

### Neutral Pole (Early Make Late Break)



CB, CE, SEMKO, UL508

IEC & EN 60947-3

Neutral Pole / Fully Rated / Rear Mount for Door Interlock and Boxed Isolators

All Switch Ratings at AC22

Part Number	Description	Price	Per
LB263AUXEM	25A-63A Neutral Pole	£3.53	1
LB2125AUXEM	125A Neutral Pole	£8.83	1

### Volt Free Contact



Volt free contacts  
rated at AC-15 6A 230V / 4A 415V.  
Maximum terminal capacity 1.5mm<sup>2</sup>



CB, CE, SEMKO, UL508

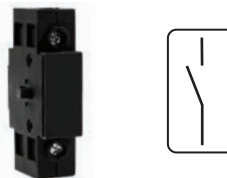
IEC & EN60947-3

Rear Mount For Door Interlocked & Boxed Isolators

Part Number	Description	Price	Per
* LBAC16RM	20-63A Aux Switch 1N/C & 1N/O R/M	£5.51	1
* LBAC125RM	80A to 125A Aux switch 1N/C & 1N/O R/M	£6.07	1
LBAC16RM2NO	20-63A Aux Switch 2N/O R/M	£5.51	1
LBAC125RM2NO	80-125A Aux Switch 2/O R/M	£6.07	1

\* 1N/O Contact Early Break / Late Make + 1N/C Contact

### Main Pole (Rear Mounting)



CB, CE, SEMKO, UL508

IEC & EN 60947-3

Main pole for when an additional pole is required

Rear mount for door interlock and boxed isolators

All Switch Ratings at AC22

Part Number	Description	Price	Per
LB263MAINPOLE	25A-63A Main Pole R/M	£3.53	1
LB2125MAINPOLE	80-125A Main Pole R/M	£8.83	1

## Extended Auxiliaries



Neutral contact is early make / late break.  
Volt free contacts rated at AC-15 6A 230V / 4A 415V.  
Maximum terminal capacity 1.5mm<sup>2</sup>



### CB, CE, SEMKO, UL508 / 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 AC22 (25-63A)

Part Number	Description	Price	Per
LB263ERMC	20-63A Extended Aux Main Pole + 1N/C & 1N/O Contact R/M	£6.79	1
LB263ERNC	20-63A Extended Aux Neutral Pole + 1N/C & 1N/O Contact R/M	£6.79	1

## Panel Mount Load Break (Isolator) Switch

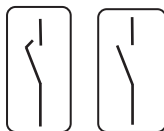


### CB, CE, SEMKO, UL508

IEC & EN 60947-3 / Padlockable for Added Security  
All Switch Ratings at AC22 - See page 67 for technical data

Part Number	Description	Price	Per
LBPM253P	25A 3P Panel Mount	£12.01	1
LBPM323P	32A 3P Panel Mount	£12.67	1
LBPM403P	40A 3P Panel Mount	£16.45	1
LBPM633P	63A 3P Panel Mount	£19.09	1
LBPM803P	80A 3P Panel Mount	£27.57	1
LBPM1003P	100A 3P Panel Mount	£29.91	1

## Panel Mount Auxiliaries for Panel Mount Isolators



### CB, CE, SEMKO, UL508 / IEC & EN 60947-3 / All Switch Ratings at AC22

Part Number	Description	Price	Per
LB263AUXEMFM	25A-63A Neutral Pole (Early Make Late Break)	£3.20	1
LB263MAINFM	25A-63A Main Pole Contact	£3.20	1
LB263EFMC	20-63A Extended Aux Main Pole + 1N/C & 1N/O Contact F/M	£6.79	1
LB263EFNC	20-63A Extended Aux Neutral Pole + 1N/C & 1N/O Contact F/M	£6.79	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	£1.36	1

## Cam Switches

### 4 Hole Fixing 16 Amp (AC21A / AC1)



UL CSA & CE certified / Degree of Protection: IP 55 (From front)  
Operating temp -25°C to +55°C  
48 x 48mm bezels

Part Number	Description	Price	Per
TP1661002	OFF-ON Switch 2 Pole	£7.20	1
TP1661004	OFF-ON Switch 4 Pole	£9.57	1
TP1661006	OFF-ON Switch 6 Pole	£11.80	1
TP1661026	1-0-2 Switch 2 Pole	£9.57	1
TP1661028	1-0-2 Switch 4 Pole	£14.58	1
TP1661038	1-2 Switch 2 Pole	£9.57	1
TP1661069	1-2-3 Switch 2 Pole	£11.96	1
TP1661313RST	3 Phase Voltmeter Switch	£12.55	1
TP1661325	3 Phase + OFF Amm Sw.	£12.55	1

### Single Hole Fixing 16 Amp (AC21A / AC1)



UL CSA & CE certified / Degree of Protection: IP 55 (From front)  
Operating temp -25°C to +55°C  
48 x 48mm bezels / Hole Size: 22.5mm

Part Number	Description	Price	Per
TP1661002B19	16A OFF-ON Switch 2 Pole	£9.30	1
TP1661026B19	16A 1-0-2 Switch 2 Pole	£11.69	1
TP1661030B19	16A 1-0-2 Switch 6 Pole	£20.72	1

Free standard delivery for orders over £100 nett

Under £100 delivery charge only £9.80


Next day and special deliveries available

Minimum order value only £20



Turn the page for Load Break (Isolator) Data sheets.

ⓘ Technical Specifications for **Boxed 3 & 4 Pole Load Break Switches** (excluding Stainless Steel 4 Pole Isolator Switches) from page 58... **(AC-21)**

Certification		CB, CE & SEMKO							
UL Standard		UL508							
International/European Standard		IEC & EN 60947-1 and 3							
									
DATA		Range	Units	20A	25A	32A	40A	63A	80A
Switch Current Ratings									
Rated operational voltage U <sub>e</sub>									
IEC & EN		Volts	V	690	690	690	690	690	690
UL		Volts	V	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 <sub>imp</sub>		Volts	kV	6	6	6	6	6	6
Rated un-interrupted current I <sub>u</sub>		Amps	A	16	20	25	32	40	63
Rated operational current I <sub>e</sub>									
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 <sup>2</sup>	2.5	2.5	2.5	2.5	2.5	2.5
			Max-mm <sup>2</sup>	10	10	10	10	25	25
Fine strand with sleeve			Min-mm <sup>2</sup>	0.75	0.75	0.75	0.75	2.5	2.5
			Max-mm <sup>2</sup>	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

① Technical Specifications for: **Boxed 6 & 8 Pole Isolator Switches / Boxed 4 Pole Metal / Clad / Boxed Changeover Switches**  
**Stainless Steel 4 Pole Isolator Switches / Door Interlock and Panel Mount Loadbreak Switches** from page 60...

(AC-22) 

Certification		CB, CE & SEMKO								
UL Standard		UL508								
International/European Standard		IEC & EN 60947-1 and 3								
		Switch Current Ratings								
DATA	Range	Units	25A	32A	40A	63A	80A	100A	125A	
<b>Rated operational voltage Ue</b>										
IEC & EN	Volts	V	690	690	690	690	690	690	690	690
UL	Volts	V	600	600	600	600	600	600	600	600
Main switch: Isolating voltage up to		Volts	V	750	750	750	750	750	750	750
Rated impulse withstand voltage Uimp		Volts	kV	6	6	6	6	6	6	6
Rated un-interrupted current Iu		Amps	A	25	32	40	63	80	100	125
<b>Rated operational current Ie</b>										
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
<b>Rated operational power AC-23A (50-60Hz)</b>										
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
<b>Rated operational power AC-3 (50-60Hz)</b>										
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
<b>UL Power Rating</b>										
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
<b>UL Short Circuit Ratings</b>										
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
<b>Short Circuit Capacity (IEC)</b>										
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
<b>Terminal Specification</b>										
Single/ Multiple strand wire		Min-mm <sup>2</sup>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
		Max-mm <sup>2</sup>	10	10	25	25	50	50	50	50
Fine strand with sleeve		Min-mm <sup>2</sup>	0.75	0.75	2.5	2.5	4	4	4	4
		Max-mm <sup>2</sup>	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

## Renewable Energy - Choose The Europa Safe PV Solution

The demand for renewable energy including PV systems is growing at a rapid rate due to the rising costs of fossil fuels and the negative effect their emissions have on the environment.

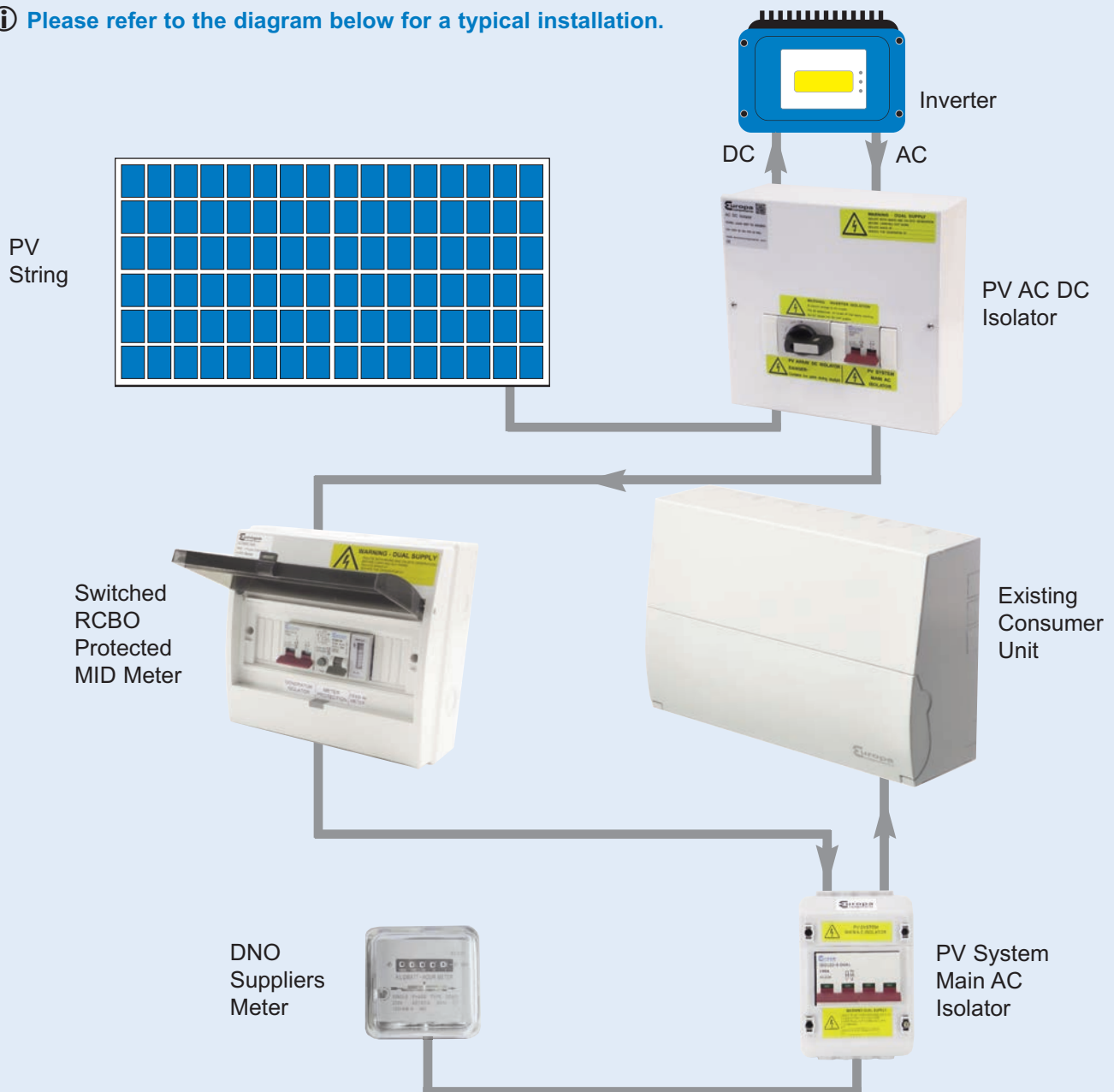
Photovoltaics use energy from the sun to generate electricity. PV cells are made from semi-conductor materials which convert solar energy into DC electricity. The DC is converted into an AC voltage via an inverter and used to power appliances and lighting. Contrary to popular belief PV cells only require daylight, not direct sunlight to generate electricity.

All Photovoltaic installations must have a DC and AC Switch to disconnect the DC / AC inverter from the photovoltaic panels in accordance with IEC 60364-7-712.

Europa DC Isolators have been specifically designed to switch **Direct Current (DC)** at voltages up to 1000 volts. Their robust design and ability to switch such voltages, at rated current, means that they are ideally suited to be used in the switching of Photovoltaic (PV) systems.

Europa Components PV Products have been a popular addition to our main line catalogue and have a proven track record. The addition of the new Metal Clad DC Isolators helps to offer a more complete and safe solution for PV installations.

**i** Please refer to the diagram below for a typical installation.



## Photovoltaic

### DC 4 Pole Isolator Switches

#### DC 4 Pole **Boxed Isolator (IP65)**



**CE / TUV Certified / EN 60947-3**

Padlockable in the OFF position for added security  
4 + 4 Knockouts so two strings can be wired (500V / String)  
M12 Knockouts suitable for MC4 Connectors  
**Switch rated at 1000V**

Part Number	Description	Price	Per
LB164PDC	16A DC 4 Pole	£48.37	1
LB254PDC	25A DC 4 Pole	£53.50	1
LB324PDC	32A DC 4 Pole	£59.85	1

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

#### Metal Clad DC 4 Pole **Boxed Isolator Switches with Fixing Brackets (IP55)**



**CE / TUV Certified / EN 60947-3**

Padlockable in the OFF position for added security  
4 + 4 Knockouts so two strings can be wired (500V / String)  
M12 Knockouts suitable for MC4 Connectors

**Switch Rated at 1000V / RAL 7035 LSF Epoxy Powder Coated**

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	£56.25	1
LB254PDCSTB	25A DC 4 Pole with Wall Bracket	£64.80	1
LB324PDCSTB	32A DC 4 Pole with Wall Bracket	£71.45	1

#### Metal Clad DC 4 Pole **Boxed Isolator with Fixing Brackets and MC4 Connectors (IP55)**



**CE / TUV Certified / EN 60947-3**

Padlockable in the OFF position for added security  
4 + 4 Knockouts so two strings can be wired (500V / String)  
M12 Knockouts suitable for MC4 Connectors  
**Switch Rated at 1000V / RAL 7035 LSF Epoxy Powder Coated**

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	£57.10	1
LB254PDCSTMC4B	25A DC 4 Pole 4 x MC4 Connectors & Wall Bracket	£65.35	1

#### ⓘ Metal Clad DC 4 Pole Boxed Isolator Dimensions (mm)

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

### MC4 Connectors



**CE / TUV Certified**

Supplied in sets of two (Male and Female Connectors)  
Panel Mount for Enclosures / Cable Mount for Cable In-line Applications

Part Number	Description	Price	Per
MC4C	MC4 Cable Mount PV Male & Female Connectors (Pair)	£1.60	Pair
MC4P	MC4 Panel Mount PV Male & Female Connectors (Pair)	£1.60	Pair

**Cable Capacity: 2.5-6mm<sup>2</sup>**  
**Rated Current: 30A / Rated Voltage: 1000V DC**

### DC 4 Pole Door Interlocked Isolator



Europa  
components

CE / TUV Certified / EN 60947-3

Padlockable in the OFF position for added security

Complete with 130mm shaft

Switch Rated at 1000V

Part Number	Description	Price	Per
LBDI164PDC	16A DC 4 Pole	£38.20	1
LBDI254PDC	25A DC 4 Pole	£59.04	1
LBDI324PDC	32A DC 4 Pole	£66.88	1

### DC 4 Pole Din Rail Mount Isolator



Europa  
components

CE / 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	£41.65	1



Other products suitable for PV applications include:

See pages: 10 for Garage Units / 58 & 59 for AC Load Break Switches

19 for Type A RCBOs / 25 for Type 2 SPD Devices for PV Systems

20 for MID Approved 45A Kilo Watt Meter

126 for 10x38 uR gPV 1000V DC String Fuses

127 for Fuse Holder for 10x38 uR gPV 1000V DC String Fuses

## Enclosed MID Approved kWh Meter Switch Assembly

### Enclosed 16A MID Approved Kilo Watt Hour Meter



Europa  
components

- ✓ 100A Mainswitch
- ✓ 16A 30mA trip 2 Pole 6kA C Curve Type A RCBO
- ✓ 45A Direct Read MID Meter

### Photovoltaic (PV) Consumer Unit Maximum Load 16A

Pre-assembled unit complete with MID Certified Meter

IP65 ABS Flame Retardant Enclosure with Polycarbonate Lid

Combined, ready wired unit for quick and easy installation

Other versions are available on request

Analogue display for kWh meter reading



Part Number	Description	Price	Per
ECMID16A	MID Single Phase 16A B Curve RCBO kWh Meter	£115.00	1

### MID Meter Insulated Enclosure Dimensions (mm)

Description	Height	Width	Depth
8 Module	215mm	215mm	100mm

Other size enclosures are available. Please contact sales for details



See page 20 for spare MID approved timers SDM120A

listed in  
**LUCKINSlive**



## PV System Main AC Isolator

### PV AC Mainswitch / Isolator



CE, SEMKO Certified

#### Dual Supply PV / Mains Supply Switch

Compact combined dual supply isolator for quick installation

Allows for the simple addition of a PV system into an existing installation

#### Enclosure:

- IP40
- ABS
- 4 Module
- Secure Fit Screw Sealed Lid
- Security Screw with Wire Lock OFF Option



#### 4 Pole Mainswitch Isolator:

CE & SEMKO Certified

EN 60947-3  
100A AC-22A  
4 Pole

Can be locked in the OFF Position

Part Number	Description	Price	Per
EC4ACSW	100A 4 Pole 2 Input Mainswitch / Isolator	£20.50	1

#### PV System Main AC Isolator Enclosure Dimensions (mm)

Description	Height	Width	Depth
4 Module	150mm	100mm	70mm

Free standard delivery for orders over £100 nett

Under £100 delivery charge only £9.80

Next day and special deliveries available

Minimum order value only £20



## Combined AC DC PV Isolator Switches

### Photovoltaic Combined AC DC Switch



#### 2 Pole Mainswitch Isolator:

CE & SEMKO Certified / EN 60947-3  
40A AC-22A

2 Pole

Can be locked in the OFF Position

#### 25A DC Switch:

CE Certified / TUV Certified / EN 60947-3

Can be locked in the OFF Position  
Switch Rated at 1000V

Enclosure: IP40 / Metal Clad

Part Number	Description	Price	Per
① LBACDC40/25ME	AC + DC Switch 40A / 25A	£104.50	1
② LBACDC40/25/25ME	AC + 2 DC Switches 40A / 25A + 25A	£161.98	1



#### Combined AC & DC PV Isolator Enclosure Dimensions (mm)

Height	Width	Depth	Depth Including Switch
240mm	240mm	90mm	115mm

## LED Lamps

### 16mm LED Pilot Lamps (IP65)

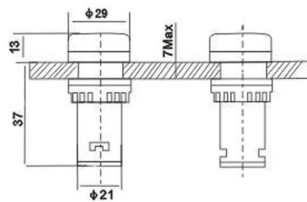


**CE Certified / EN 60947**

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	£2.05	1
RAD163B	Green 24V AC / DC	£2.05	1
RAD164B	Red 24V AC / DC	£2.05	1
RAD165B	Amber 24V AC / DC	£2.05	1
RAD166B	Blue 24V AC / DC	£2.05	1
RAD161F	White 110V AC / DC	£2.05	1
RAD163F	Green 110V AC / DC	£2.05	1
RAD164F	Red 110V AC / DC	£2.05	1
RAD165F	Amber 110V AC / DC	£2.05	1
RAD166F	Blue 110V AC / DC	£2.05	1
RAD161P	White 230V AC	£2.05	1
RAD163P	Green 230V AC	£2.05	1
RAD164P	Red 230V AC	£2.05	1
RAD165P	Amber 230V AC	£2.05	1
RAD166P	Blue 230V AC	£2.05	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	£1.90	1
RAD223B	Green 24V AC / DC	£1.90	1
RAD224B	Red 24V AC / DC	£1.90	1
RAD225B	Amber 24V AC / DC	£1.90	1
RAD226B	Blue 24V AC / DC	£1.90	1
RAD221F	White 110V AC / DC	£1.90	1
RAD223F	Green 110V AC / DC	£1.90	1
RAD224F	Red 110V AC / DC	£1.90	1
RAD225F	Amber 110V AC / DC	£1.90	1
RAD226F	Blue 110V AC / DC	£1.90	1
RAD221P	White 230V AC	£1.90	1
RAD223P	Green 230V AC	£1.90	1
RAD224P	Red 230V AC	£1.90	1
RAD225P	Amber 230V AC	£1.90	1
RAD226P	Blue 230V AC	£1.90	1
RAD-ADD22	Spanner	£3.71	1

### 22mm LED with Lamp Test Facility (IP65)



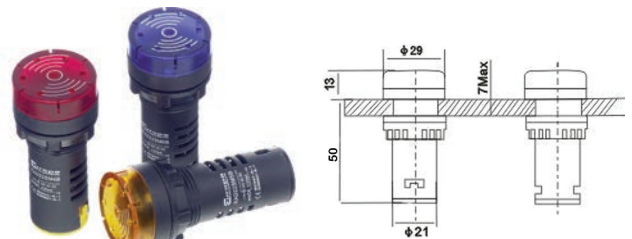
**CE Certified / EN 60947**

Multi segment / Long life: 30,000 hours / Low temperature  
24V, 110V, 230V AC / Complete with locking nut  
Current Rating 20mA / (See page 73 for EP-FAA enclosures)

Part Number	Description	Price	Per
RADT221B	White (with test) 24V AC	£3.75	1
RADT223B	Green (with test) 24V AC	£3.75	1
RADT224B	Red (with test) 24V AC	£3.75	1
RADT225B	Amber (with test) 24V AC	£3.75	1
RADT226B	Blue (with test) 24V AC	£3.75	1
RADT221F	White (with test) 110V AC	£3.75	1
RADT223F	Green (with test) 110V AC	£3.75	1
RADT224F	Red (with test) 110V AC	£3.75	1
RADT225F	Amber (with test) 110V AC	£3.75	1
RADT226F	Blue (with test) 110V AC	£3.75	1
RADT221P	White (with test) 230V AC	£3.75	1
RADT223P	Green (with test) 230V AC	£3.75	1
RADT224P	Red (with test) 230V AC	£3.75	1
RADT225P	Amber (with test) 230V AC	£3.75	1
RADT226P	Blue (with test) 230V AC	£3.75	1

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.

### 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 73 for EP-FAA enclosures)

Part Number	Description	Price	Per
RAD22SM4B	Red 24V AC / DC LED Buzzer	£3.85	1
RAD22SM5B	Amber 24V AC / DC LED Buzzer	£3.85	1
RAD22SM6B	Blue 24V AC / DC LED Buzzer	£3.85	1
RAD22SM4F	Red 110V AC / DC LED Buzzer	£3.85	1
RAD22SM5F	Amber 110V AC / DC LED Buzzer	£3.85	1
RAD22SM6F	Blue 110V AC / DC LED Buzzer	£3.85	1
RAD22SM4P	Red 230V AC LED Buzzer	£3.85	1
RAD22SM5P	Amber 230V AC LED Buzzer	£3.85	1
RAD22SM6P	Blue 230V AC LED Buzzer	£3.85	1

## 22.5mm Push Buttons, Selector Switches, Indicator Lamps & Holders

### Integrated 22.5mm Push Buttons & 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 1 N/O Contact	£4.97	1
EE2RFD1	Red 1 N/C Contact	£4.97	1
EE3AFD1	Amber 1 N/O + 1 N/C Contact	£7.19	1
EE3RFD1	Red 1 N/O + 1 N/C Contact	£7.19	1
EE3CFD1	Black 1 N/O + 1 N/C Contact	£7.19	1
EE3GFD1	Green 1 N/O + 1 N/C Contact	£7.19	1
EE4GFD1	Green 2 N/O Contacts	£7.19	1
EE4AFD1	Amber 2 N/O Contacts	£7.19	1
EE4CFD1	Black 2 N/O Contacts	£7.19	1
EE5RFD1	Red 2 N/C Contacts	£7.19	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 1 N/O Contact	£4.97	1
EE2RPD1	Red 1 N/C Contact	£4.97	1
EE2GPD1	Green 1 N/C Contact	£4.97	1
EE3RPD1	Red 1 N/O + 1 N/C Contact	£7.19	1
EE3GPD1	Green 1 N/O + 1 N/C Contact	£7.19	1
EE3APD1	Amber 1 N/O + 1 N/C Contact	£7.19	1
EE3CPD1	Black 1 N/O + 1 N/C Contact	£7.19	1
EE5RPD1	Red 2 N/C Contacts	£7.19	1

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 72)

#### 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 and collar separately)  
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE3CSK1	2 Pos 1 N/O + 1 N/C Contact	£11.51	1
EE3CSI1	2 Pos Spring Ret 1 N/O + 1 N/C Contact	£11.51	1
EE4CSK1	2 Pos 2 N/O Contacts	£11.51	1
EE4CSI1	2 Pos Spring Ret 2 N/O Contacts	£11.51	1
EE5CSK1	2 Pos 2 N/C Contacts	£11.51	1
EE5CSI1	2 Pos Spring Ret 2 N/C Contacts	£11.51	1
EE3CSL1	3 Pos 1 N/O + 1 N/C Contact	£12.04	1
EE3CSJ1	3 Pos Spring Ret 1 N/O + 1 N/C Contact	£12.04	1
EE4CSL1	3 Pos 2 N/O Contacts	£12.04	1
EE4CSJ1	3 Pos Spring Ret 2 N/O Contacts	£12.04	1
EE5CSL1	3 Pos 2 N/C Contacts	£12.04	1
EE5CSJ1	3 Pos Spring Ret 2 N/C Contacts	£12.04	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 and collar separately)  
Panel Mount (or to be used with EP-FAA enclosures only).

Part Number	Description	Price	Per
EE3CKK1	2 Pos 1 N/O + 1 N/C Contact	£14.10	1
EE3CKI1	2 Pos Spring Ret 1 N/O + 1 N/C Contact	£14.10	1
EE4CKK1	2 Pos 2 N/O Contacts	£14.10	1
EE4CKI1	2 Pos Spring Ret 2 N/O Contacts	£14.10	1
EE5CKK1	2 Pos 2 N/C Contacts	£14.10	1
EE5CKI1	2 Pos Spring Ret 2 N/C Contacts	£14.10	1
EE3CKL1	3 Pos 1 N/O + 1 N/C Contact	£14.44	1
EE3CKJ1	3 Pos Spring Ret 1 N/O + 1 N/C Contact	£14.44	1
EE4CKL1	3 Pos 2 N/O Contacts	£14.44	1
EE4CKJ1	3 Pos 2 N/O Contacts	£14.44	1
EE5CKL1	3 Pos 2 N/C Contacts	£14.44	1
EE5CKJ1	3 Pos Spring Ret 2 N/C Contacts	£14.44	1
EEKEY010	Spare Key for EE3-5	£2.01	1

#### Empty Control Station Enclosures for Integrated 22.5mm Push Buttons



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 Pos Empty H: 65 x W: 55 X D: 53.5mm	£11.67	1
EP2FAA	2 Pos Empty H: 100 x W: 55 X D: 53.5mm	£13.04	1
EP3FAA	3 Pos Empty H: 134 x W: 55 X D: 53.5mm	£14.42	1

## Indicator Lamps & Holders

### LED BA9 Bayonet (10 x 23mm)



AC / DC

IP55 Rated / Long Life: 30,000 Hours

Operating Temperature: -25°C to + 55°C

Part Number	Description	Price	Per
BA9LED1B	24V White 2 Chip LED BA9	£1.65	1
BA9LED1F	110V White 4 Chip LED BA9	£1.65	1
BA9LED3F	110V Green 2 Chip LED BA9	£1.38	1
BA9LED1P	230V White 4 Chip LED BA9	£1.65	1
BA9LED3P	230V Green 2 Chip LED BA9	£1.38	1
BA9LED3B	24V Green 1 Chip LED BA9	£1.38	1
BA9LED4B	24V Red 2 Chip LED BA9	£1.38	1
BA9LED4F	110V Red 2 Chip LED BA9	£1.38	1
BA9LED4P	230V Red 2 Chip LED BA9	£1.38	1
BA9LED5B	24V Amber 2 Chip LED BA9	£1.38	1
BA9LED5F	110V Amber 2 Chip LED BA9	£1.38	1
BA9LED5P	230V Amber 2 Chip LED BA9	£1.38	1
BA9LED6B	24V Blue 2 Chip LED BA9	£1.38	1
BA9LED6F	110V Blue 2 Chip LED BA9	£1.38	1
BA9LED6P	230V Blue 2 Chip LED BA9	£1.38	1

### Lamp Holder (BA9 Type) + Collar



UL & CSA Approved

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	£9.48	1
② RAS-LP4	Transformer Type 240V > 6V	£9.48	1
③ RAS-LP6	Direct Connected (any voltage)	£2.77	1
④ RAS-LP7	Diode & Series Resistor 230 > 110V	£2.96	1

Auxiliary contact blocks to be ordered separately for illuminated push buttons

### Lamp Lens Only



UL & CSA Approved

Part Number	Description	Price	Per
RAS-LP001	White	£1.06	1
RAS-LP003	Green	£1.06	1
RAS-LP004	Red	£1.06	1
RAS-LP005	Amber	£1.06	1
RAS-LP006	Blue	£1.06	1
RAS-LP007	Clear	£1.06	1

### Lamp Head Only



UL & CSA Approved / **NB:** Collar is supplied with the lamp holder (sold separately)

Part Number	Description	Price	Per
RAS-LP01	White	£1.62	1
RAS-LP03	Green	£1.62	1
RAS-LP04	Red	£1.62	1
RAS-LP05	Amber	£1.62	1
RAS-LP06	Blue	£1.62	1
RAS-LP07	Clear	£1.62	1

## Illuminated Pushbuttons & Selector Switches

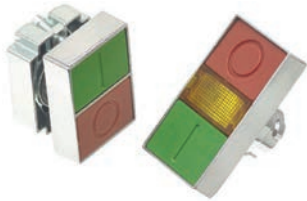
### Flush Illuminated Push-Button Head Only (IP65)



UL & CSA Approved **NB:** Collar is supplied with the lamp holder (sold separately)

Part Number	Description	Price	Per
RAS-PB131	White	£2.01	1
RAS-PB133	Green	£2.01	1
RAS-PB134	Red	£2.01	1
RAS-PB135	Amber	£2.01	1
RAS-PB136	Blue	£2.01	1
RAS-PB137	Clear	£2.01	1

Twin Push Button (IP40)



UL & CSA Approved (IP40 Rated when installed)



Part Number	Description	Price	Per
RAS-PB1534	Off-On (Illuminated) (Collar Not Inc)	£4.20	1
RCAS-PBF34	Off-On (Not Illuminated)	£3.87	1

Illuminated Stay Put Selector Switches (IP65)



UL & CSA Approved (IP65 Rated when installed)



Part Number	Description	Price	Per
RB2-BK123	2 Position Green	£5.04	1
RB2-BK124	2 Position Red	£5.04	1
RB2-BK125	2 Position Amber	£5.04	1
RB2-BK133	3 Position Green	£5.48	1
RB2-BK134	3 Position Red	£5.48	1
RB2-BK135	3 Position Amber	£5.48	1

**NB:** Collar is supplied with the lamp holder (sold separately - see page 74)

Metal Push Buttons

Standard Flush Push Button Head + Collar (IP65)



UL & CSA Approved (IP65 Rated when installed)



Part Number	Description	Price	Per
RCAS-PBF1	White	£2.12	1
RCAS-PBF2	Black	£2.12	1
RCAS-PBF3	Green	£2.12	1
RCAS-PBF4	Red	£2.12	1
RCAS-PBF5	Yellow	£2.12	1
RCAS-PBF6	Blue	£2.12	1
* RB2-BA334	White Button Black Arrow	£1.38	1
* RB2-BA335	Black Button White Arrow	£1.38	1

\* Please Note: Both RB2 parts do NOT include the RAS-FB mounting collar.

Booted Push Button + Collar (IP65)



UL & CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
RCAS-PBB2	Black	£2.88	1
RCAS-PBB3	Green	£2.88	1
RCAS-PBB4	Red	£2.88	1
RCAS-PBB5	Yellow	£2.88	1
RCAS-PBB6	Blue	£2.88	1

Projecting Push Button + Collar (IP65)



UL & CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
RCAS-PBP1	White	£2.44	1
RCAS-PBP2	Black	£2.44	1
RCAS-PBP3	Green	£2.44	1
RCAS-PBP4	Red	£2.44	1
RCAS-PBP5	Yellow	£2.44	1
RCAS-PBP6	Blue	£2.44	1



Scan the QR Code for Push Button Data.

See pages 79-80 for Control Stations & Empty Enclosures



## Plastic Push Buttons

### Plastic Push Buttons + Mounting Clip (IP65)



Supplied Complete With Mounting Clip  
Plastic Control Stations or panel mount  
IP65 Rated when installed



Part Number	Description	Price	Per
RP2 BA1	Flush P/B Head White	£2.65	1
RP2 BA2	Flush P/B Head Black	£2.65	1
RP2 BA3	Flush P/B Head Green	£2.65	1
RP2 BA4	Flush P/B Head Red	£2.65	1
RP2 BA5	Flush P/B Head Yellow	£2.65	1
RP2 BA6	Flush P/B Head Blue	£2.65	1
RP2-BL4	Projecting P/B Head Red	£4.22	1

### Plastic Weather Proof Push Button (IP67)



**NB: RAP2-BHZ (mounting clip)**  
is also required. See Page 77



The weather proof range is suitable for panel mount  
or for use in plastic control stations.

Part Number	Description	Price	Per
RAP2-BA1	White	£4.63	1
RAP2-BA2	Black	£4.63	1
RAP2-BA3	Green	£4.63	1
RAP2-BA334	White with Arrow	£4.63	1
RAP2-BA335	Black with Arrow	£4.63	1
RAP2-BA4	Red	£4.63	1
RAP2-BA5	Yellow	£4.63	1
RAP2-BA6	Blue	£4.63	1



**5PM cut off** for standard same day despatch

**Direct to site delivery available**

Call sales for further details: 01582 692 440

## Selector Switches

### Plastic Key Operated Selector Switches + Mounting Clip



Part Number	Description	Price	Per
RP2-BG0	3 Pos Key Rem 3 Pos	£7.41	1
RP2-BG2	2 Pos Key Rem Left Pos	£7.14	1
RP2-BG3	3 Pos Key Rem Centre Only	£7.41	1
RP2-BG4	2 Pos Key Rem 2 Pos	£7.14	1
RP2-BG5	3 Pos Key Rem L & R Pos	£7.41	1

### Metal Key Operated Selector Switches (IP65) + Collar



UL & CSA Approved (IP65 Rated when installed)

Part Number	Description	Price	Per
RCAS-BG6	2 Pos Key Spring Return from Right to Centre	£6.94	1
RCAS-BG7	3 Pos Key Spring Return to Centre	£7.19	1
RCAS-SWK2	2 Pos Key Rem Centre Off Position	£6.94	1
RCAS-SWK2RS	2 Pos Key Rem 2 Position	£6.94	1
RCAS-SWK3	3 Pos Key Rem Centre Off Pos	£7.19	1
RCAS-SWK3RS	3 Pos Key Rem 3 Position	£7.19	1

### Metal Standard Handle Selector Switches + Collar (IP65)



UL & CSA Approved (IP65 Rated when installed)

Part Number	Description	Price	Per
RCAS-SW2	2 Pos Stay Put	£5.04	1
RCAS-SW3	3 Pos Stay Put	£5.42	1
RCAS-SWL2	2 Pos Stay Put Long Handle	£5.27	1
RCAS-SWL3	3 Pos Stay Put Long Handle	£5.53	1
RCAS-SWR2	2 Pos Spring Return from Right to Centre	£5.04	1
RCAS-SWR3	3 Pos Spring Return to Centre	£5.42	1
RCAS-SWRL2	2 Pos Spring Ret from Right to Centre Long Handle	£6.26	1
RCAS-SWRL3	3 Pos Spring Ret to Centre Long Handle	£6.26	1

## Weather Proof 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	£4.88	1
RAP2-BD3	3 Position Stay Put	£4.88	1

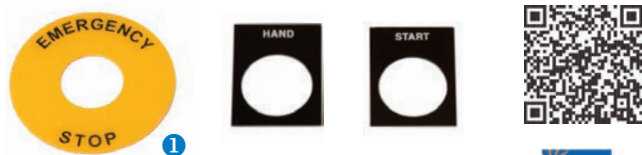
## Accessories for 22mm Push Buttons

### Spare Key (No 455)



Part Number	Description	Price	Per
RB2-K455	Spare Key for Selector Switches	£1.63	1

### Legend Plates



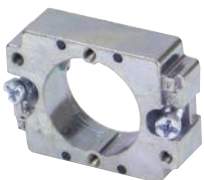
UL & CSA Approved  
Suitable for use with all 22mm diameter push buttons



A wide range available at **£1.25** each please ask sales for details of the full range or scan the **QR code** to go to the page on our website.

Part Number	Description	Price	Per
1 RB2-PY9330	60mm Emergency Stop	£1.35	1

### Mounting Collar



UL & CSA Approved

Part Number	Description	Price	Per
RAS-FB	Mounting Collar	£0.93	1

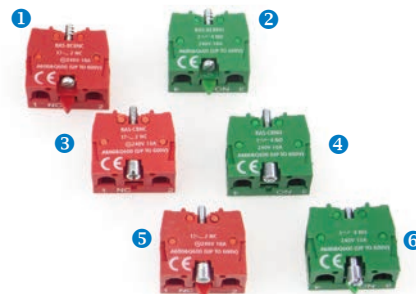
### Mounting Clip



For use with the **RAP2** range of IP67 weather proof plastic Push Buttons.

Part Number	Description	Price	Per
RAP2-BHZ	Mounting Clip	£0.46	1

### Auxiliary Contact Blocks



UL & CSA Approved / Rated 240V at 10A  
N/O Green N/C Red

Part Number	Description	Price	Per
1 RAS-BCBNC	N/C Back Mounting for Plastic Control Stations	£1.72	1
2 RAS-BCBNO	N/O Back Mounting for Plastic Control Stations	£1.72	1
3 RAS-BCBNC	N/C Collar Mounting	£1.72	1
4 RAS-BCBNO	N/O Collar Mounting	£1.72	1
5 RAS-BCBNCMNC	Back Mounting for Metal Pre-assembled Stations	£1.72	1
6 RAS-BCBNOMNO	Back Mounting for Metal Pre-assembled Stations	£1.72	1

When assembling control stations: (See page 80)

- Plastic enclosures - use back mounted contact blocks: RAS-BCBNO or RAS-BCBNC.
- Metal enclosures - use: RAS-BCBNO or RAS-BCBNC with RAS-FB mounting collar.
- When additional contact blocks are required for pre-assembled metal control stations (pages 78-80) - use: RAS-BCBNOM or RAS-BCBNCM.

## Mushroom Head Push Button

### 40mm Black Mushroom Head (Non Latching) (IP65)



UL & CSA Approved

Part Number	Description	Price	Per
RAS-ES54B	Spring Return	£3.70	1

## Emergency Stops

### Emergency Stop Buttons + Collar (Latching) (IP65)



UL and CSA Approved  
IP65 Rated when installed / 40mm Mushroom Head



Part Number	Description	Price	Per
1 RCAS-ES14	Key Release	£9.18	1
2 RCAS-ES142	Key Release + 1 N/C	£10.94	1
3 RCAS-ES54	Twist Release	£4.63	1
4 RCAS-ES541	Twist Release + 1 N/O	£6.39	1
5 RCAS-ES542	Twist Release + 1 N/C	£6.39	1
6 RCAS-EST4	Push/Pull	£4.63	1

### 60mm Mushroom Head (Latching) Emergency Stop (IP65)



UL and CSA Approved  
IP65 Rated when installed / 60mm Mushroom Head / Latching

Part Number	Description	Price	Per
RCAS-ES564	Twist Release + Collar	£9.88	1

### Plastic Emergency Stop Buttons (Latching) (IP65)



UL and CSA Approved  
IP65 Rated When installed / 40mm Mushroom Head

When fitting into plastic control stations use back mounted contact blocks. Mounting clip required for panel use.

Part Number	Description	Price	Per
1 RP2-ES14	Key Release (Plastic Body)	£8.76	1
2 RP2-BS54	Twist Release (Plastic Body)	£4.20	1

### Plastic Boxed Emergency Stop Stations (IP65)



UL and CSA Approved  
IP65 Rated when installed / Rated up to 240V at 10A  
Additional contact blocks available see page 77



Part Number	Description	Price	Per
1 RCAS-ESB141NC	Key Release + 1N/C	£16.27	1
2 RCAS-ESB541NC	Twist Release + 1N/C	£12.75	1
3 RCAS-ESBC41NC	Spring Release + 1N/C	£15.73	1
4 RCAS-ESBT42NC	Pull Release + 2N/C	£17.24	1

### Metal Boxed Emergency Stop Stations (IP65)



UL and CSA Approved  
IP65 Rated when installed / Rated up to 240V at 10A  
Additional contact blocks available see page 77

Part Number	Description	Price	Per
1 RM1BS142	Key Release + 1 N/C	£42.93	1
2 RM1BS542	Twist Release + 1 N/C	£37.76	1



Legend Plate Stickers are Included with each C&S Control Station.

Free standard delivery for orders over £100 nett

Under £100 delivery charge only £9.80

Next day and special deliveries available

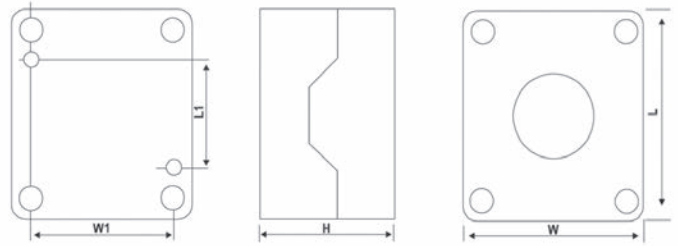
Minimum order value only £20





**C&S Control Station Dimensions (mm)**

Measure	Plastic				Metal			
	1 Hole	2 Hole	3 Hole	4 Pole	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



## Pre-assembled Control Stations

**NB:** Replacement contact blocks available - see page 77

### 1 Position Plastic (IP65)



UL and CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
① RC1PBG4	Key Removable in On & Off + 1N/O	£11.88	1
② RC1PG	Green + 1N/O	£11.40	1
③ RC1PR	Red + 1N/C	£11.40	1

### 1 Position Metal (IP65)



UL and CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
RM1BG4	Key Removable in On & Off + 1N/O	£36.00	1
RM1G	Green + 1N/O	£26.05	1
RM1R	Red + 1N/C	£26.05	1

### 2 Position Plastic (IP65)



UL and CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
① RC2PGES55	Green/Emstop + 1N/O+1N/C	£17.33	1
② RC2PGG	Green/Green + 2N/O	£14.82	1
③ RC2PGR	Green/Red + 1N/O+1N/C	£14.82	1
④ RC2PWB	White/Black + 2N/O	£14.82	1

### 2 Position Metal (IP65)



UL and CSA Approved  
IP65 Rated when installed



Part Number	Description	Price	Per
① RM2GES55	Green/ Emstop + 1N/O+1N/C	£49.67	1
② RM2GG	Green/Green + 2N/O	£47.66	1
③ RM2GR	Green/Red + 1N/O+1N/C	£47.66	1

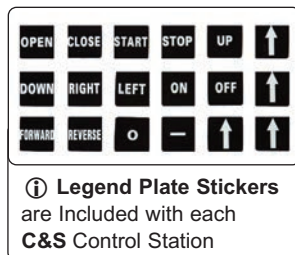
## 3 Position Plastic (IP65)



UL and CSA Approved (IP65 Rated when installed)

Part Number	Description	Price	Per
①RC3PGRG	Green/Red/Green +2N/O+1N/C	£22.55	1
②RC3PWBS	Black/White/SW2 + 2N/O+1N/C	£25.46	1
③RC3PWRB	White/Red/Black +2N/O+1N/C	£22.55	1

## 3 Position Metal (IP65)



UL and CSA Approved (IP65 Rated when installed)

Part Number	Description	Price	Per
RM3GRG	Green / Red / Green 2N/O+1N/C	£72.38	1

## Empty Control Station Enclosures

### Plastic Empty Control Stations (IP65)



UL and CSA Approved (IP65 Rated when installed)

Part Number	Description	Price	Per
①RC1P	1 Hole	£8.18	1
②RC1PY	1 Hole (Yellow Lid)	£8.18	1
③RC2P	2 Hole	£8.44	1
④RC3P	3 Hole	£9.84	1
⑤RC4P	4 Hole	£11.19	1

## Metal Empty Control Stations (IP65)



UL and CSA Approved

IP65 Rated / for Customer Assembly

Part Number	Description	Price	Per
①RC-1M	1 Hole	£16.71	1
②RC-1MY	1 Hole (Yellow Lid)	£17.26	1
③RC-2M	2 Hole	£17.98	1
④RC-3M	3 Hole	£19.72	1
⑤RC-4M	4 Hole	£21.73	1

## Metal Empty Control Stations with Shroud (IP65)



CE Certified

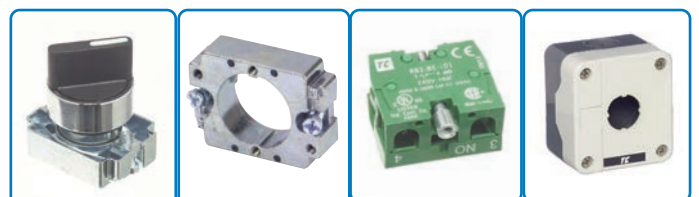
Complete with protective shroud to guard against accidental operation of the switch. (IP65 when fully sealed). PG 16 x 1 Cable entry (on top).

Part Number	Description	Price	Per
RC-1MS	1 Hole H: 72 x W: 72 x D: 57mm	£22.68	1
RC-2MS	2 Hole H: 112 x W: 72 x D: 57mm	£25.99	1
RC-3MS	3 Hole H: 142 x W: 72 x D: 57mm	£29.26	1

## Part Selection for Control Station Assembly:

**Plastic Empty Enclosures:** Use with back mounting contact blocks **RAS-BCBNO** or **RAS-BCBNC**. Only suitable for use with plastic flush push buttons and selector switches.

**Metal Empty Enclosures:** Use with front mounting contact blocks **RAS-CBNO** or **RAS-CBNC**. Both the metal flush push buttons & the plastic range can be used (the RAP2-BHZ clip will be required for plastic buttons). For dimensions of control station enclosures please see page 79



# TC1-D Range & LC1-F Range Contactors & Accessories



- ① 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 of Coils



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## TC1-D Range and LC1-F Range 3 & 4 Pole Contactors

### TC1 3 Pole Contactors with AC Coils



#### 4kW 9A AC3 (25A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D0910B7	24V AC 1N/O Aux	£13.25	1
TC1-D0910E7	48V AC 1N/O Aux	£13.25	1
TC1-D0910F7	110V AC 1N/O Aux	£13.25	1
TC1-D0910P7	230V AC 1N/O Aux	£13.25	1
TC1-D0910N7	415V AC 1N/O Aux	£13.25	1
TC1-D0901B7	24V AC 1N/C Aux	£13.25	1
TC1-D0901E7	48V AC 1N/C Aux	£13.25	1
TC1-D0901F7	110V AC 1N/C Aux	£13.25	1
TC1-D0901P7	230V AC 1N/C Aux	£13.25	1
TC1-D0901N7	415V AC 1N/C Aux	£13.25	1

#### 5.5kW 12A AC3 (25A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D1210B7	24V AC 1N/O Aux	£15.10	1
TC1-D1210E7	48V AC 1N/O Aux	£15.10	1
TC1-D1210F7	110V AC 1N/O Aux	£15.10	1
TC1-D1210P7	230V AC 1N/O Aux	£15.10	1
TC1-D1210N7	415V AC 1N/O Aux	£15.10	1
TC1-D1201B7	24V AC 1N/C Aux	£15.10	1
TC1-D1201E7	48V AC 1N/C Aux	£15.10	1
TC1-D1201F7	110V AC 1N/C Aux	£15.10	1
TC1-D1201P7	230V AC 1N/C Aux	£15.10	1
TC1-D1201N7	415V AC 1N/C Aux	£15.10	1

#### 9kW 18A AC3 (32A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D1810B7	24V AC 1N/O Aux	£18.86	1
TC1-D1810E7	48V AC 1N/O Aux	£18.86	1
TC1-D1810F7	110V AC 1N/O Aux	£18.86	1
TC1-D1810P7	230V AC 1N/O Aux	£18.86	1
TC1-D1810N7	415V AC 1N/O Aux	£18.86	1
TC1-D1801B7	24V AC 1N/C Aux	£18.86	1
TC1-D1801E7	48V AC 1N/C Aux	£18.86	1
TC1-D1801F7	110V AC 1N/C Aux	£18.86	1
TC1-D1801P7	230V AC 1N/C Aux	£18.86	1
TC1-D1801N7	415V AC 1N/C Aux	£18.86	1

#### 11kW 25A AC3 (40A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D2510B7	24V AC 1N/O Aux	£25.73	1
TC1-D2510E7	48V AC 1N/O Aux	£25.73	1
TC1-D2510F7	110V AC 1N/O Aux	£25.73	1
TC1-D2510P7	230V AC 1N/O Aux	£25.73	1
TC1-D2510N7	415V AC 1N/O Aux	£25.73	1
TC1-D2501B7	24V AC 1N/C Aux	£25.73	1
TC1-D2501F7	110V AC 1N/C Aux	£25.73	1
TC1-D2501P7	230V AC 1N/C Aux	£25.73	1
TC1-D2501N7	415V AC 1N/C Aux	£25.73	1

#### 15kW 32A AC3 (50A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D3210B7	24V AC 1N/O Aux	£36.78	1
TC1-D3210E7	48V AC 1N/O Aux	£36.78	1
TC1-D3210F7	110V AC 1N/O Aux	£36.78	1
TC1-D3210P7	230V AC 1N/O Aux	£36.78	1
TC1-D3210N7	415V AC 1N/O Aux	£36.78	1
TC1-D3201B7	24V AC 1N/C Aux	£36.78	1
TC1-D3201E7	48V AC 1N/C Aux	£36.78	1
TC1-D3201F7	110V AC 1N/C Aux	£36.78	1
TC1-D3201P7	230V AC 1N/C Aux	£36.78	1
TC1-D3201N7	415V AC 1N/C Aux	£36.78	1

**NB: 18.5 kW 38A AC3 3 Pole Contactors available on request**

#### 22kW 40A AC3 (60A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D4011B7	24V AC 1N/O + 1N/C Aux	£51.09	1
TC1-D4011E7	48V AC 1N/O + 1N/C Aux	£51.09	1
TC1-D4011F7	110V AC 1N/O + 1N/C Aux	£51.09	1
TC1-D4011P7	230V AC 1N/O + 1N/C Aux	£51.09	1
TC1-D4011N7	415V AC 1N/O + 1N/C Aux	£51.09	1

#### 25kW 50A AC3 (80A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D5011B7	24V AC 1N/O + 1N/C Aux	£61.40	1
TC1-D5011E7	48V AC 1N/O + 1N/C Aux	£61.40	1
TC1-D5011F7	110V AC 1N/O + 1N/C Aux	£61.40	1
TC1-D5011P7	230V AC 1N/O + 1N/C Aux	£61.40	1
TC1-D5011N7	415V AC 1N/O + 1N/C Aux	£61.40	1

**Contactor Loads: AC3 = Motor Load (Inductive)  
AC1 = Heating Load (Resistive) (Standard Lighting)**

**37kW 65A AC3 (80A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D6511B7	24V AC 1N/O + 1N/C Aux	£83.22	1
TC1-D6511E7	48V AC 1N/O + 1N/C Aux	£83.22	1
TC1-D6511F7	110V AC 1N/O + 1N/C Aux	£83.22	1
TC1-D6511P7	230V AC 1N/O + 1N/C Aux	£83.22	1
TC1-D6511N7	415V AC 1N/O + 1N/C Aux	£83.22	1

**45kW 80A AC3 (125A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D8011B7	24V AC 1N/O + 1N/C Aux	£104.63	1
TC1-D8011E7	48V AC 1N/O + 1N/C Aux	£104.63	1
TC1-D8011F7	110V AC 1N/O + 1N/C Aux	£104.63	1
TC1-D8011P7	230V AC 1N/O + 1N/C Aux	£104.63	1
TC1-D8011N7	415V AC 1N/O + 1N/C Aux	£104.63	1

**45kW 95A AC3 (125A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D9511B7	24V AC 1N/O + 1N/C Aux	£126.23	1
TC1-D9511F7	110V AC 1N/O + 1N/C Aux	£126.23	1
TC1-D9511P7	230V AC 1N/O + 1N/C Aux	£126.23	1
TC1-D9511N7	415V AC 1N/O + 1N/C Aux	£126.23	1

TP1 3 Pole  
Contactors  
with DC Coils



For technical data & dimensions see page 89

**4kW 9A AC3 (25A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D0910JD	12V DC 1N/O Aux	£35.00	1
TP1-D0910BD	24V DC 1N/O Aux	£35.00	1
TP1-D0910ED	48V DC 1N/O Aux	£35.00	1
TP1-D0910FD	110V DC 1N/O Aux	£35.00	1
TP1-D0901JD	12V DC 1N/C Aux	£35.00	1
TP1-D0901BD	24V DC 1N/C Aux	£35.00	1
TP1-D0901ED	48V DC 1N/C Aux	£35.00	1
TP1-D0901FD	110V DC 1N/C Aux	£35.00	1

**5.5kW 12A AC3 (25A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D1210JD	12V DC 1N/O Aux	£38.00	1
TP1-D1210BD	24V DC 1N/O Aux	£38.00	1
TP1-D1210ED	48V DC 1N/O Aux	£38.00	1
TP1-D1210FD	110V DC 1N/O Aux	£38.00	1
TP1-D1201JD	12V DC 1N/C Aux	£38.00	1
TP1-D1201BD	24V DC 1N/C Aux	£38.00	1
TP1-D1201ED	48V DC 1N/C Aux	£38.00	1
TP1-D1201FD	110V DC 1N/C Aux	£38.00	1

**9kW 18A AC3 (32A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D1810JD	12V DC 1N/O Aux	£50.00	1
TP1-D1810BD	24V DC 1N/O Aux	£50.00	1
TP1-D1810ED	48V DC 1N/O Aux	£50.00	1
TP1-D1810FD	110V DC 1N/O Aux	£50.00	1
TP1-D1801JD	12V DC 1N/C Aux	£50.00	1
TP1-D1801BD	24V DC 1N/C Aux	£50.00	1
TP1-D1801ED	48V DC 1N/C Aux	£50.00	1
TP1-D1801FD	110V DC 1N/C Aux	£50.00	1

**11kW 25A AC3 (40A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D2510JD	12V DC 1N/O Aux	£72.00	1
TP1-D2510BD	24V DC 1N/O Aux	£72.00	1
TP1-D2510ED	48V DC 1N/O Aux	£72.00	1
TP1-D2510FD	110V DC 1N/O Aux	£72.00	1
TP1-D2501JD	12V DC 1N/C Aux	£72.00	1
TP1-D2501BD	24V DC 1N/C Aux	£72.00	1
TP1-D2501ED	48V DC 1N/C Aux	£72.00	1
TP1-D2501FD	110V DC 1N/C Aux	£72.00	1

**15kW 32A AC3 (50A AC1) 3 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D3210JD	12V DC 1N/O Aux	£98.00	1
TP1-D3210BD	24V DC 1N/O Aux	£98.00	1
TP1-D3210ED	48V DC 1N/O Aux	£98.00	1
TP1-D3210FD	110V DC 1N/O Aux	£98.00	1
TP1-D3201JD	12V DC 1N/C Aux	£98.00	1
TP1-D3201BD	24V DC 1N/C Aux	£98.00	1
TP1-D3201ED	48V DC 1N/C Aux	£98.00	1
TP1-D3201FD	110V DC 1N/C Aux	£98.00	1

## 22kW 40A AC3 (60A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D4011JD	12V DC 1N/O + 1N/C Aux	£124.00	1
TP1-D4011BD	24V DC 1N/O + 1N/C Aux	£124.00	1
TP1-D4011ED	48V DC 1N/O + 1N/C Aux	£124.00	1
TP1-D4011FD	110V DC 1N/O + 1N/C Aux	£124.00	1

## 25kW 50A AC3 (80A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D5011JD	12V DC 1N/O + 1N/C Aux	£163.00	1
TP1-D5011BD	24V DC 1N/O + 1N/C Aux	£163.00	1
TP1-D5011ED	48V DC 1N/O + 1N/C Aux	£163.00	1
TP1-D5011FD	110V DC 1N/O + 1N/C Aux	£163.00	1

## 37kW 65A AC3 (80A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TP1-D6511JD	12V DC 1N/O + 1N/C Aux	£191.00	1
TP1-D6511BD	24V DC 1N/O + 1N/C Aux	£191.00	1
TP1-D6511ED	48V DC 1N/O + 1N/C Aux	£191.00	1
TP1-D6511FD	110V DC 1N/O + 1N/C Aux	£191.00	1

## 45kW 80A AC3 (125A AC1) 3 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

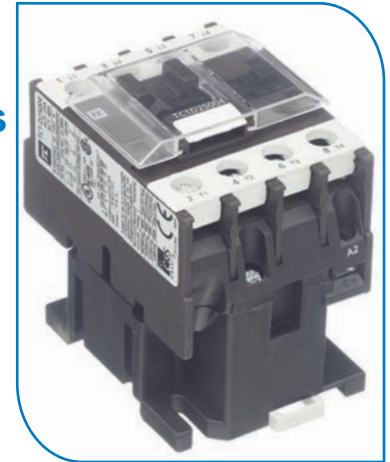
Part Number	Description	Price	Per
TP1-D8011JD	12V DC 1N/O + 1N/C Aux	£219.00	1
TP1-D8011BD	24V DC 1N/O + 1N/C Aux	£220.00	1
TP1-D8011ED	48V DC 1N/O + 1N/C Aux	£219.00	1
TP1-D8011FD	110V DC 1N/O + 1N/C Aux	£219.00	1



Scan the QR code for technical details of the TC1-D range of Contactors



## TC1 4 Pole Contactors with AC Coils



## 4kW 9A AC3 (25A AC1) 4 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D09004B7	24V AC 4N/O	£20.30	1
TC1-D09004E7	48V AC 4N/O	£20.30	1
TC1-D09004F7	110V AC 4N/O	£20.30	1
TC1-D09004P7	230V AC 4N/O	£20.30	1
TC1-D09004N7	415V AC 4N/O	£20.30	1
TC1-D09008B7	24V AC 2N/O + 2N/C	£27.50	1
TC1-D09008E7	48V AC 2N/O + 2N/C	£27.50	1
TC1-D09008F7	110V AC 2N/O + 2N/C	£27.50	1
TC1-D09008P7	230V AC 2N/O + 2N/C	£27.50	1
TC1-D09008N7	415V AC 2N/O + 2N/C	£27.50	1

## 5.5kW 12A AC3 (25A AC1) 4 Pole

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D12004B7	24V AC 4N/O	£21.76	1
TC1-D12004E7	48V AC 4N/O	£21.76	1
TC1-D12004F7	110V AC 4N/O	£21.76	1
TC1-D12004P7	230V AC 4N/O	£21.76	1
TC1-D12004N7	415V AC 4N/O	£21.76	1
TC1-D12006B7	24V AC 4N/C	£27.40	1
TC1-D12006F7	110V AC 4N/C	£27.40	1
TC1-D12006P7	230V AC 4N/C	£27.40	1
TC1-D12006N7	415V AC 4N/C	£27.40	1
TC1-D12008B7	24V AC 2N/O + 2N/C	£27.40	1
TC1-D12008E7	48V AC 2N/O + 2N/C	£27.40	1
TC1-D12008F7	110V AC 2N/O + 2N/C	£27.40	1
TC1-D12008P7	230V AC 2N/O + 2N/C	£27.40	1
TC1-D12008N7	415V AC 2N/O + 2N/C	£27.40	1

**Contactor Loads:** AC3 = Motor Load (Inductive)  
AC1 = Heating Load (Resistive) (Standard Lighting)

**11kW 25A AC3 (40A AC1) 4 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D25004B7	24V AC 4N/O	£39.45	1
TC1-D25004E7	48V AC 4N/O	£39.45	1
TC1-D25004F7	110V AC 4N/O	£39.45	1
TC1-D25004P7	230V AC 4N/O	£39.45	1
TC1-D25004N7	415V AC 4N/O	£39.45	1
TC1-D25006B7	24V AC 4N/C	£45.40	1
TC1-D25006F7	110V AC 4N/C	£45.40	1
TC1-D25006P7	230V AC 4N/C	£45.40	1
TC1-D25006N7	415V AC 4N/C	£45.40	1
TC1-D25008B7	24V AC 2N/O + 2N/C	£45.40	1
TC1-D25008E7	48V AC 2N/O + 2N/C	£45.40	1
TC1-D25008F7	110V AC 2N/O + 2N/C	£45.40	1
TC1-D25008P7	230V AC 2N/O + 2N/C	£45.40	1
TC1-D25008N7	415V AC 2N/O + 2N/C	£45.40	1

**22kW 40A AC3 (60A AC1) 4 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D40004B7	24V AC 4N/O	£78.24	1
TC1-D40004E7	48V AC 4N/O	£78.24	1
TC1-D40004F7	110V AC 4N/O	£78.24	1
TC1-D40004P7	230V AC 4N/O	£78.24	1
TC1-D40004N7	415V AC 4N/O	£78.24	1
TC1-D40008B7	24V AC 2N/O + 2N/C	£91.25	1
TC1-D40008E7	48V AC 2N/O + 2N/C	£91.25	1
TC1-D40008F7	110V AC 2N/O + 2N/C	£91.25	1
TC1-D40008P7	230V AC 2N/O + 2N/C	£91.25	1
TC1-D40008N7	415V AC 2N/O + 2N/C	£91.25	1

**37kW 65A AC3 (80A AC1) 4 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D65004B7	24V AC 4N/O	£129.77	1
TC1-D65004E7	48V AC 4N/O	£129.77	1
TC1-D65004F7	110V AC 4N/O	£129.77	1
TC1-D65004P7	230V AC 4N/O	£129.77	1
TC1-D65004N7	415V AC 4N/O	£129.77	1
TC1-D65008B7	24V AC 2N/O + 2N/C	£164.40	1
TC1-D65008E7	48V AC 2N/O + 2N/C	£164.40	1
TC1-D65008F7	110V AC 2N/O + 2N/C	£164.40	1
TC1-D65008P7	230V AC 2N/O + 2N/C	£164.40	1
TC1-D65008N7	415V AC 2N/O + 2N/C	£164.40	1

For technical data & dimensions see page 89

View our contactor heating and lighting guide pages  
at: [www.europacomponents.com/tech\\_help](http://www.europacomponents.com/tech_help)

**45kW 80A AC3 (125A AC1) 4 Pole**

Made in India CE, CSA, UL Listed, EN 60947-4-1  
Maximum Rated Operational Voltage 690V

Part Number	Description	Price	Per
TC1-D80004B7	24V AC 4N/O	£236.00	1
TC1-D80004F7	110V AC 4N/O	£236.00	1
TC1-D80004N7	415V AC 4N/O	£236.00	1
TC1-D80004P7	230V AC 4N/O	£236.00	1
TC1-D80008B7	24V AC 2N/O + 2N/C	£277.50	1
TC1-D80008F7	110V AC 2N/O + 2N/C	£277.50	1
TC1-D80008N7	415V AC 2N/O + 2N/C	£277.50	1
TC1-D80008P7	230V AC 2N/O + 2N/C	£277.50	1

**NB: 4 Pole DC Contactors** also available from stock

**Enclosed Contactors**

**Metal Clad Enclosed 4 Pole Contactors**



**IP54** Rated for 25, 40 & 60A (Metal Clad) / Screw on Lid / Lid: **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 4 N/O H: 186 x W: 120 x D: 126mm	£66.75	1
CON404P7MC	IP54 AC-1 40A 4 N/O H: 216 x W: 144 x D: 130mm	£88.50	1
CON604P7MC	IP54 AC-1 60A 4 N/O H: 264 x W: 190 x D: 159mm	£145.25	1
CON804P7ME	IP65 AC-1 80A 4 N/O H: 300 x W: 300 x D: 200mm	£189.75	1
CON1254P7ME	IP65 AC-1 125A 4 N/O H: 400 x W: 300 x D: 200mm	£315.50	1

## Contactors Enclosures

### MNX Polycarbonate Contactor 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	Contact Enclosure for 9-32A H: 180 x W: 130 x D: 150mm	£43.85	1
PB65C	Contact Enclosure for 40-65A H: 255 x W: 180 x D: 175mm	£88.40	1

Ideal for lighting applications. The **PB65C** can also accommodate the 80A & 95A contactors but without side mounting auxiliaries.

### Metal Clad Contactor 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	£25.36	1
MC38C	Contact Enclosure for 25-38A H: 216 x W: 144 x D: 130mm	£33.37	1
● MC65C	Contact Enclosure 40-65A H: 264 x W: 190 x D: 159mm	£60.10	1

## TC1-D Range Contactor Accessories



### Replacement AC Coils for TC1 Contactors



#### TC1D09-D18 (AC) 50/60Hz

Part Number	Description	Price	Per
TX1D2B7	24V AC	£9.06	1
TX1D2E7	48V AC	£9.06	1
TX1D2F7	110V AC	£9.06	1
TX1D2P7	230V AC	£9.06	1
TX1D2Q7	380V AC	£9.06	1
TX1D2N7	415V AC	£9.06	1

#### TC1D25-D32 (AC) 50/60Hz

Part Number	Description	Price	Per
TX1D4B7	24V AC	£14.93	1
TX1D4E7	48V AC	£14.93	1
TX1D4F7	110V AC	£14.93	1
TX1D4P7	230V AC	£14.93	1
TX1D4Q7	380V AC	£14.93	1
TX1D4N7	415V AC	£14.93	1

#### TC1D40-D95 (AC) 50/60Hz

Part Number	Description	Price	Per
TX1D6B7	24V AC	£27.75	1
TX1D6E7	48V AC	£27.75	1
TX1D6F7	110V AC	£27.75	1
TX1D6P7	230V AC	£27.75	1
TX1D6Q7	380V AC	£27.75	1
TX1D6N7	415V AC	£27.75	1

## Replacement DC Coils for TP1 Contactors



#### TP1D09-D18 (DC)

Part Number	Description	Price	Per
TX4D2JD	12V DC	£12.99	1
TX4D2BD	24V DC	£12.99	1
TX4D2FD	110V DC	£12.99	1
TX4D2ED	48V DC	£12.99	1

#### TP1D25-D32 (DC)

Part Number	Description	Price	Per
TX4D4JD	12VDC	£22.46	1
TX4D4BD	24V DC	£22.46	1
TX4D4ED	48V DC	£22.46	1
TX4D4FD	110V DC	£22.46	1



## TP1D40-D65 (DC)

Part Number	Description	Price	Per
LX4D40JD	12V DC	£41.53	1
LX4D40BD	24V DC	£41.53	1
LX4D40FD	110V DC	£41.53	1
LX4D40ED	48V DC	£41.53	1

## TP1-D80 (DC)

Part Number	Description	Price	Per
LX4D80JD	12V DC	£69.71	1
LX4D80BD	24V DC	£69.71	1
LX4D80ED	48V DC	£69.71	1
LX4D80FD	110V DC	£69.71	1

## Control Relays

### Control Relays (1th: 10A)



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	2N/O + 2N/C 24V AC	£24.15	1
TCA2-DN22E7	2N/O + 2N/C 48V AC	£24.15	1
TCA2-DN22F7	2N/O + 2N/C 110V AC	£24.15	1
TCA2-DN22P7	2N/O + 2N/C 230V AC	£24.15	1
TCA2-DN31B7	3N/O + 1N/C 24V AC	£24.15	1
TCA2-DN31E7	3N/O + 1N/C 48V AC	£24.15	1
TCA2-DN31F7	3N/O + 1N/C 110V AC	£24.15	1
TCA2-DN31P7	3N/O + 1N/C 230V AC	£24.15	1
TCA2-DN40B7	4N/O 24V AC	£24.15	1
TCA2-DN40E7	4N/O 48V AC	£24.15	1
TCA2-DN40F7	4N/O 110V AC	£24.15	1
TCA2-DN40P7	4N/O 230V AC	£24.15	1



5PM cut off for standard same day despatch

Direct to site delivery available

Call sales for further details: 01582 692 440

## TC1-D Range Contactor Overload Relays



For help with overload selection see page 89



CE Certified

Part Number	Description	Price	Per
TR2-D09301	0.10 - 0.16A	£18.60	1
TR2-D09302	0.16 - 0.25A	£18.60	1
TR2-D09303	0.25 - 0.40A	£18.60	1
TR2-D09304	0.40 - 0.63A	£18.60	1
TR2-D09305	0.63 - 1.00A	£18.60	1
TR2-D09306	1.00 - 1.65A	£18.60	1
TR2-D09307	1.60 - 2.50A	£18.60	1
TR2-D09308	2.50 - 4.00A	£18.60	1
TR2-D09310	4.00 - 6.00A	£18.60	1
TR2-D09312	5.50 - 8.00A	£18.60	1
TR2-D09314	7.00 - 10.0A	£18.60	1
TR2-D12316	9.00 - 13.0A	£19.75	1
TR2-D18321	12.0 - 18.0A	£23.80	1
TR2-D25322	17.0 - 25.0A	£27.25	1
TR2-D32353	23.0 - 32.0A	£35.20	1
TR2-D32355	28.0 - 36.0A	£35.20	1
TR2-D40353	23.0 - 32.0A	£39.80	1
TR2-D40355	30.0 - 40.0A	£39.80	1
TR2-D65357	37.0 - 50.0A	£50.35	1
TR2-D65359	48.0 - 65.0A	£53.00	1
TR2-D65361	55.0 - 70.0A	£55.75	1
TR2-D80363	63.0 - 80.0A	£64.20	1
TR2-D95365	80.0 - 93.0A	£68.30	1

## Front Mounting Auxiliary Contact Blocks



Suitable for use with TC1-D, TP1-D & F range contactors (adding 33mm to the depth of the TC1-D & TP1-D range).

CE UL & CSA  
Rated Thermal Current 10A



Part Number	Description	Price	Per
TA1-DN11	1 N/O + 1N/C	£5.49	1
TA1-DN13	1 N/O + 3 N/C	£9.79	1
TA1-DN20	2 N/O	£5.49	1
TA1-DN02	2 N/C	£5.49	1
TA1-DN22	2 N/O + 2 N/C	£9.79	1
TA1-DN31	3 N/O + 1 N/C	£9.79	1
TA1-DN40	4 N/O	£9.79	1
TA1-DN04	4 N/C	£9.79	1

## Side Mounting Auxiliary Contact Blocks



Suitable for use with TC1-D range contactors and TP1-D09-D36 contactors (adding 12.5mm to the width).

\* **Not suitable** for use with F Range contactors.

CE UL & CSA

Rated Thermal Current 10A



Part Number	Description	Price	Per
TA8-DN11	1 N/O + 1 N/C	£5.49	1
TA8-DN20	2 N/O	£5.49	1

## TC On Delay



Suitable for use with TC1-D, TP1-D & F range contactors (adding 52mm to the depth of the TC1-D & TP1-D range).

CE Certified

Suitable for TC1-D & F Range Contactors



Part Number	Description	Price	Per
TA2-DT0	0.1 - 3 Sec	£22.83	1
TA2-DT2	1 - 30 Sec	£22.83	1
TA2-DT4	10 - 180 Sec	£22.83	1

## TC Off Delay



Suitable for use with TC1-D, TP1-D & F range contactors (adding 52mm to the depth of the TC1-D & TP1-D range).

CE Certified

Suitable for TC1-D & F Range Contactors



Part Number	Description	Price	Per
TA3-DR0	0.1 - 3 Sec	£22.83	1
TA3-DR2	1 - 30 Sec	£22.83	1
TA3-DR4	10 - 180 Sec	£22.83	1

## Star Delta 0.1 - 30 Seconds



Suitable for use with TC1-D, TP1-D & F range contactors (adding 52mm to the depth of the TC1-D & TP1-D range).

CE Certified

Suitable for TC1-D & F Range Contactors



Part Number	Description	Price	Per
TA2-DS2	Star Delta 0.1 - 30 Sec	£27.04	1

## Mechanical Interlocks



Will fit both TC1-D Range and TP1-D Range Contactors

Part Number	Description	Price	Per
LA9-D09978	TC1-D09 to D32	£9.25	1
LA9-D50978	TC1-D40 to D65	£15.09	1
LA9-D80978	TC1-D80 to D95	£15.09	1

## TR2 Overload Mounting Plates



For remote mounting of TC1 Overload Relays  
Din Rail Mounted or fixing screws (not supplied)

Part Number	Description	Price	Per
TA7-D0964	Up to TR2-D25	£10.65	1
TA7-D3264	From TR2-D32	£21.31	1

## Suppressor Block



Part Number	Description	Price	Per
LA9-D09980	Suppressor Block	£8.57	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	£11.50	1
LA6-DK01N	9 - 32A / 400 - 415V AC	£11.50	1
LA6-DK01U	9 - 32A / 230 - 240V AC	£11.50	1

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	£2.94	1

## Reversing Contactor Cable Sets



CE Certified / To be used with the appropriate Mechanical Interlock (See page 91)

Part Number	Description	Price	Per
TA9-D1269	9 - 12A	£12.50	1
TA9-D1869	18A	£15.00	1
TA9-D2569	25A	£17.50	1
TA9-D3269	32A	£25.00	1
TA9-D6569	40 - 65A	£45.00	1
TA9-D8069	80 - 95A	£70.00	1

### TC1-D Range Contactor Replacement Coil Look Up Table

Volts		12	24	48	110	230	240	380	400	415
AC	50/60 Hz		B7	E7	F7	P7	U7	Q7	V7	N7
DC		JD	BD	ED	FD					

### 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	70/8 VA	70 / 8VA	100 / 8.5 VA	245 / 26 VA

### 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 & 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 (AC) & TP1 (DC) Contactor & Overload Relay Chart

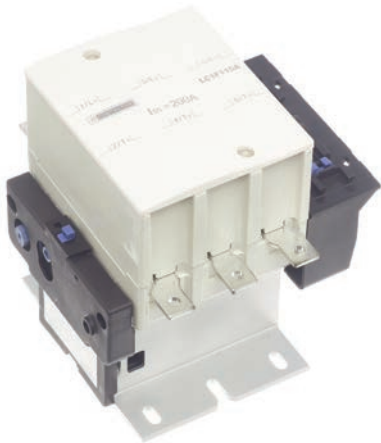
Overload Relay	Range	For use with Contactors: TC1 (AC) / TP1 (DC)
TR2-D09301	0.10-0.16A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09302	0.16-0.25A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09303	0.25-0.40A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09304	0.40-0.63A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09305	0.63-1.00A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09306	1.00-1.65A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09307	1.60-2.50A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09308	2.50-4.00A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09310	4.00-6.00A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09312	5.50-8.00A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D09314	7.00-10.0A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D12316	9.00-13.0A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D18321	12.0-18.0A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D25322	17.0-25.0A	D09 / D12 / D18 / D25 / D32 / D38
TR2-D32353	23.0-32.0A	D25 / D32 / D38
TR2-D32355	30.0-40.0A	D32 / D38 <a href="#">See Below</a>
TR2-D40353	23.0-32.0A	D40 / D50 / D65
TR2-D40355	30.0-40.0A	D40 / D50 / D65
TR2-D65357	37.0-50.0A	D50 / D65
TR2-D65359	48.0-65.0A	D65
TR2-D65361	55.0-70.0A	D65
TR2-D80363	63.0-80.0A	D80
TR2-D95365	80.0-93.0A	D95

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 AC1 rating (resistive load) then an overload up to the AC1 rating can be safely used. **For example:** a contactor rated 9AAC3 / 25AAC1 can be used with a TR2-D25322 (17-25A) to protect a 25AAC1 load.

	TC1-D Range Contactor Operating Times	Closing Times (milliseconds)	Opening Times (milliseconds)
	<ul style="list-style-type: none"> <li>TC1-D09 / D12 / D18</li> <li>TC1-D25 / D32 / D38</li> <li>TC1-D40 / D50 / D65</li> <li>TC1-D80 / D95</li> </ul>	12...22	4...12
	15...24	5...19	
	20...26	8...12	
	20...35	6...20	

## 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.

Made in China CE Certified / Maximum Rated Operational Voltage 690V  
Supplied with incoming and outgoing shrouds

Part Number	Description	Price	Per
LC1-F115A-A65	59KW 115A AC3 (200A AC1)	£222.16	1
LC1-F150A-A65	80KW 150A AC3 (250A AC1)	£352.24	1
LC1-F185A-A65	100KW 185A AC3 (275A AC1)	£458.24	1
LC1-F225A-A65	110KW 225A AC3 (315A AC1)	£507.17	1
LC1-F265A-A65	140KW 265A AC3 (350A AC1)	£596.67	1
LC1-F330A-A65	180KW 330A AC3 (400A AC1)	£668.29	1
LC1-F400A-A65	220KW 400A AC3 (500A AC1)	£798.55	1
LC1-F500A-A65	280KW 500A AC3 (700A AC1)	£1280.56	1
LC1-F630A-A65	355KW 630A AC3 (1000A AC1)	£2038.64	1

4 Pole / 4 Normally Open (Supplied Without Coil)



Scan me for a data sheet

Made in China CE Certified / Maximum Rated Operational Voltage 690V  
Supplied with incoming and outgoing shrouds

Part Number	Description	Price	Per
LC1-F1154A-A65	59KW 115A AC3 (200A AC1)	£315.25	1
LC1-F1504A-A65	80KW 150A AC3 (250A AC1)	£469.77	1
LC1-F1854A-A65	100KW 185A AC3 (275A AC1)	£611.01	1
LC1-F2254A-A65	110KW 225A AC3 (315A AC1)	£675.25	1
LC1-F2654A-A65	140KW 265A AC3 (350A AC1)	£795.57	1
LC1-F3304A-A65	180KW 330A AC3 (400A AC1)	£979.65	1
LC1-F4004A-A65	220KW 400A AC3 (500A AC1)	£1064.27	1
LC1-F5004A-A65	280KW 500A AC3 (700A AC1)	£1871.57	1
LC1-F6304A-A65	375KW 630A AC3 (1000A AC1)	£2332.21	1

## AC Coils for LC1 Contactors

LC1-F115-F150A (AC)



CE Certified / 50Hz / 60Hz available on request

Part Number	Description	Price	Per
LX1-FFB	24V AC	£50.99	1
LX1-FFE	48V AC	£50.99	1
LX1-FFF	110V AC	£50.99	1
LX1-FFU	240V AC	£50.99	1
LX1-FFN	415V AC	£50.99	1

LC1-F185-F225A (AC)

Part Number	Description	Price	Per
LX1-FGB	24V AC	£68.35	1
LX1-FGE	48V AC	£68.35	1
LX1-FGF	110V AC	£68.35	1
LX1-FGU	240V AC	£72.14	1
LX1-FGQ	380V AC	£72.14	1
LX1-FGN	415V AC	£72.14	1

LC1-F265-F330 (AC)

Part Number	Description	Price	Per
LX1-FHB	24V AC	£78.66	1
LX1-FHE	48V AC	£78.66	1
LX1-FHF	110V AC	£78.66	1
LX1-FHU	240V AC	£78.66	1
LX1-FHQ	380V AC	£78.66	1
LX1-FHN	415V AC	£78.66	1

LC1-F400A (AC)

Part Number	Description	Price	Per
LX1-FJF	110V AC	£140.96	1
LX1-FJU	240V AC	£140.96	1
LX1-FJN	415V AC	£140.96	1

LC1-F500A (AC)

Part Number	Description	Price	Per
LX1-FKF	110V AC	£155.71	1
LX1-FKU	240V AC	£155.71	1
LX1-FKN	415V AC	£155.71	1

LC1-F630A (AC)

Part Number	Description	Price	Per
LX1-FLF	110V AC	£184.50	1
LX1-FLU	240V AC	£184.50	1
LX1-FLN	415V AC	£184.50	1

## DC Coils for LC1 Contactors

### LC1-F115-F150A (DC)

CE Certified

Part Number	Description	Price	Per
LX4FFB	24V DC	£74.52	1
LX4FFE	48V DC	£74.52	1
LX4FFF	110V DC	£74.52	1

### LC1-F185-F225A (DC)

Part Number	Description	Price	Per
LX4FGB	24V DC	£96.79	1
LX4FGE	48V DC	£96.79	1
LX4FGF	110V DC	£96.79	1

### LC1-F265-F330A (DC)

Part Number	Description	Price	Per
LX4FHB	24V DC	£125.04	1
LX4FHE	48V DC	£125.04	1
LX4FHF	110V DC	£125.04	1

### LC1-F400A (DC)

Part Number	Description	Price	Per
LX4FJF	110V DC	£203.50	1

### LC1-F500A (DC)

Part Number	Description	Price	Per
LX4FKF	110V DC	£266.35	1

### LC1-F630A (DC)

Part Number	Description	Price	Per
LX4FLF	110V DC	£280.92	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				206mm		
F500A	238mm	233mm	232mm	238mm	288mm	232mm
F630A	304mm	309mm	255mm	304mm	389mm	255mm
F780A	435mm	704mm		435mm	864mm	

## Accessories for LC1-F Range Contactors

### LC1-F Range Contactor Overload Relay



CE Certified

Part Number	Description	Price	Per
LR1-FM105	65 - 105A	£137.80	1
LR1-FM125	80 - 125A	£137.80	1
LR1-F160	100-160A	£176.78	1
LR1-F200	125 - 200A	£176.78	1
LR1-F250	160 - 250A	£176.78	1
LR1-F315	200 - 315A	£232.83	1
LR1-F400	250 - 400A	£283.32	1
LR1-F500	315 - 500A	£294.31	1
LR1-F630	400-630A	£305.98	1

### Mechanical Interlocks



Will fit both TC1-D Range and TP1-D Range Contactors

Part Number	Description	Price	Per
LA9-FF970	LC1-FF115 to 150 Horizontal	£29.33	1
LA9-FF971	LC1-FF115 to 150 Vertical	£29.33	1
LA9-FG970	LC1-FF185 to 225 Horizontal	£29.33	1
LA9-FG971	LC1-FF185 to 225 Vertical	£29.33	1
LA9-FJ970	LC1-FF265 to 500 Horizontal	£44.42	1
LA9-FJ971	LC1-FF265 to 500 Vertical	£44.42	1
LA9-FL970	LC1-FF630 Horizontal	£72.75	1
LA9-FL971	LC1-FF630 Vertical	£72.75	1

### Spare Terminal Shrouds



3 Pole F-Range Contactors: 6pcs  
4 Pole F-Range Contactors: 8pcs

Part Number	Description	Price	Per
LA9-F701	LC1-F115 & LR1-FM105 to 125	£8.22	1
LA9-F702	LC1-F150 to LR1- F200	£11.25	1
LA9-F703	LC1-F225 to 500	£14.48	1
LA9-F704	LC1-F630 & LR1-F400 to 630	£14.48	1

## Motor Starters

### Direct On Line Motor Starters



ABS enclosed DOLS will accept the range of **TA1 front mounting auxiliaries** (page 87).  
**Please Note:** Overload Relays must be ordered separately (page 87).

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

#### ABS Enclosure 2 Button 24V DOL (IP65)

Part Number	Description	Price	Per
● LE1-D123B7	12A 5.5kW 24V AC Coil	£34.50	1

#### ABS Enclosure 2 Button 110V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123F7	12A 5.5kW 110V AC Coil	£34.50	1
LE1-D253F7	25A 11kW 110V AC Coil	£57.26	1

#### ABS Enclosure 2 Button 240V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123U7	12A 5.5kW 240V AC Coil	£34.50	1
LE1-D253U7	25A 11kW 240V AC Coil	£57.26	1

#### ABS Enclosure 2 Button 415V DOL (IP65)

Part Number	Description	Price	Per
LE1-D123N7	12A 5.5kW 415V AC Coil	£34.50	1
LE1-D253N7	25A 11kW 415V AC Coil	£57.26	1

### Metal Clad Direct On Line Motor Starters



Metal Clad DOLS will accept the range of **TA8 side mounting auxiliaries** (page 88).  
**Please Note:** Overload Relays must be ordered separately (page 87).

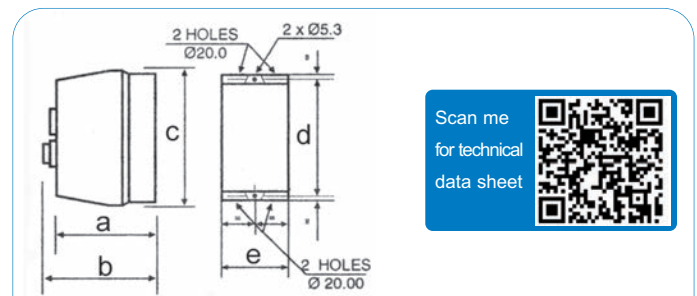
**NB:** The overload relay setting must not exceed the contactor rating.

#### Metal Enclosure 2 Button 240V DOL (IP54)

Part Number	Description	Price	Per
BE1-D123U7	12A 5.5kW 240V AC Coil	£50.68	1
BE1-D253U7	25A 11kW 240V AC Coil	£72.92	1

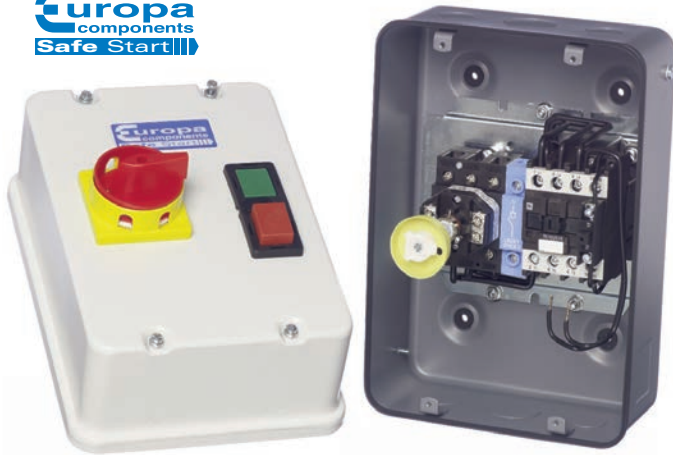
#### Metal Enclosure 2 Button 415V DOL (IP54)

Part Number	Description	Price	Per
BE1-D123N7	12A 5.5kW 415V AC Coil	£50.68	1
BE1-D253N7	25A 11kW 415V AC Coil	£72.92	1



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



Europa safe Start DOLS with Isolator will accept the range of **TA8 side mounting auxiliaries** (page 88).

**Please Note:** Overload Relays must be ordered separately (page 87).  
**NB:** The overload relay setting must not exceed the contactor rating

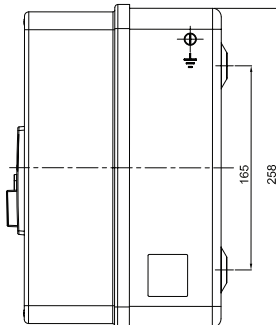
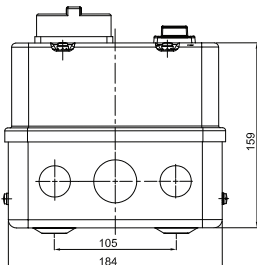
The Europa Safe Start Direct on Line motor starter (DOL) is designed to switch a single or three phase induction motor at rated voltage. It comprises of a 3P + sw. neutral isolator (padlockable in the OFF position), steel enclosure, contactor, start contact, link wires and stop / start buttons. The thermal overload is supplied as a separate item (see page 87). 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

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

Part Number	Description	Price	Per
BE2-D123U7	12A 5.5kW 240V AC Coil	£137.14	1
BE2-D253U7	25A 11kW 240V AC Coil	£154.65	1

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

Part Number	Description	Price	Per
BE2-D123N7	12A 5.5kW 415V AC Coil	£137.14	1
BE2-D253N7	25A 11kW 415V AC Coil	£154.65	1



Scan me for a  
data sheet

## Reversing Starters

### Metal Clad Reversing Starters (IP54)



**IP54** metal clad enclosure

With or without isolator

Compact design / Lid: RAL 7035 / Base RAL 7012

5.5 & 11kW starter ratings

**Standard Coil Voltages:** 230V or 415V 50/60Hz

**Please Note:** Overload Relays must be ordered separately (page 87).

Part Number	Description	Price	Per
MS-DOLRS5.5P7MC	12A 5.5kW 230V AC Coil	£106.35	1
MS-DOLRS5.5N7MC	12A 5.5kW 415V AC Coil	£106.35	1
MS-DOLRS11P7MC	25A 11kW 230V AC Coil	£155.00	1
MS-DOLRS11N7MC	25A 11kW 415V AC Coil	£155.00	1



MS-DOLRS5.5P7ISOMC	Reversing Starter + ISO 12A 5.5kW 230V AC Coil	£139.30	1
MS-DOLRS5.5N7ISOMC	Reversing Starter + ISO 12A 5.5kW 415V AC Coil	£139.30	1
MS-DOLRS11P7ISOMC	Reversing Starter + ISO 25A 11kW 230V AC Coil	£174.00	1
MS-DOLRS11N7ISOMC	Reversing Starter + ISO 25A 11kW 415V AC Coil	£174.00	1

#### ⓘ Metal Clad Reversing Starter Dimensions (mm)

	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)



IP54 metal clad enclosure  
Compact design  
11, 15 & 22kW starter ratings  
Lid: RAL 7035 / Base RAL 7012

Standard Coil Voltages: 230V or 415V 50/60Hz

Please Note: Overload Relays must be ordered separately (page 87).

Part Number	Description	Price	Per
MS-SDS11P7MC	11kW 230V AC Coil	£254.00	1
MS-SDS11N7MC	11kW 415V AC Coil	£254.00	1
MS-SDS15P7MC	15kW 230V AC Coil	£266.00	1
MS-SDS15N7MC	15kW 415V AC Coil	£266.00	1
MS-SDS22P7MC	22kW 230V AC Coil	£289.00	1
MS-SDS22N7MC	22kW 415V AC Coil	£289.00	1
MS-SDS11P7ISOMC	SDS + ISO 11kW 230V AC Coil	£241.00	1
MS-SDS11N7ISOMC	SDS + ISO 11kW 415V AC Coil	£241.00	1
MS-SDS15N7ISOMC	SDS + ISO 15kW 415V AC Coil	£278.50	1
MS-SDS15P7ISOMC	SDS + ISO 15kW 230V AC Coil	£278.50	1
MS-SDS22P7ISOMC	SDS + ISO 22kW 230V AC	£322.00	1
MS-SDS22N7ISOMC	SDS + ISO 22kW 415V AC Coil	£322.00	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 Starter Thermal Overload Selection Chart

Please consult the motor manufacturer for Full Load Current (FLC) or from the motor rating plate

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

## Star Delta Starters in Metal Enclosure

### Star Delta Starters in Metal Enclosure (IP65)



IP65 Rated Enclosure (when fully sealed)

Strong Steel (Powder Epoxy Coated) Enclosure RAL: 7035

Supplied Complete with Internal Wiring Terminated to the Terminal Block. 110V version available on request.

Part Number	Description	Price	Per
SDS11EIP7	11kW 230V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£568.22	1
SDS11EIN7	11kW 415V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£536.45	1
SDS15EIP7	15kW 230V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£579.50	1
SDS15EIN7	15kW 415V Coil (with Isolator) TR2-D18321 Overload 12 - 18A	£561.28	1
SDS22EIP7	22kW 230V Coil (with Isolator) TR2-D25322 Overload 17 - 25A	£790.22	1
SDS22EIN7	22kW 415V Coil (with Isolator) TR2-D25322 Overload 17 - 25A	£768.86	1
SDS30EIP7	30kW 230V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1066.40	1
SDS30EIN7	30kW 415V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1036.30	1
SDS37EIP7	37kW 230V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1306.30	1
SDS37EIN7	37kW 415V Coil (with Isolator) TR2-D40355 Overload 30 - 40A	£1268.50	1
SDS45EIP7	45kW 230V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£1306.30	1
SDS45EIN7	45kW 415V Coil (with Isolator) TR2-D65357 Overload 37 - 50A	£1268.50	1
SDS55EIP7	55kW 230V Coil (with Isolator) TR2-D65359 Overload 48 - 65A	£1895.00	1
SDS55EIN7	55kW 415V Coil (with Isolator) TR2-D65359 Overload 48 - 65A	£1835.00	1



KW Rating	Height mm	Width mm	Depth mm
11kW	400	300	200
15kW			
22kW			
30kW	400		
37kW			
45kW			
55kW	500		

Scan me for technical data





## DOL Manual Motor Starters

MMS Range up to 32A 15kW



Latching  
(not soft start)



Current Setting Dial

### 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	0.1 - 0.16A	£24.70	1
MMS025S	0.16 - 0.25A	£24.70	1
MMS04S	0.25 - 0.4A	£24.70	1
MMS063S	0.4 - 0.63A	£24.70	1
MMS1S	0.63 - 1A	£25.70	1
MMS1.6S	1 - 1.6A	£25.70	1
MMS2.5S	1.6 - 2.5A	£25.70	1
MMS4S	2.5 - 4A	£25.70	1
MMS6.3S	4 - 6.3A	£25.70	1
MMS10S	6 - 10A	£31.40	1
MMS14S	9 - 14A	£31.40	1
MMS18S	13 - 18A	£31.40	1
MMS23S	17 - 23A	£31.40	1
MMS25S	20 - 25A	£34.40	1
MMS32S	24 - 32A	£35.90	1

## MMS Accessories

MMS Range Accessories



Extended  
Range

Scan me for  
Video

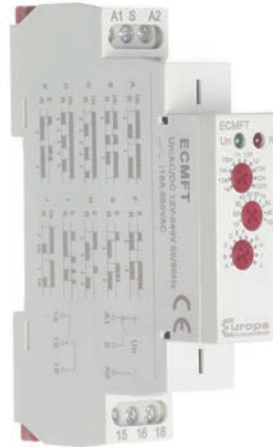


Part Number	Description	Price	Per
1 MMSENC	IP55 enclosure for MMS 0.1 - 32A	£9.16	1
2 MMSAUXAE11	Auxiliary contact 1N/C + 1N/O (Top Mount)	£3.15	1
2 MMSAUXAE20	Auxiliary contact 2N/O (Top Mount)	£3.15	1
3 MMSAUX11SM	Auxiliary Contact 1N/C + 1N/O (Side Mount)	£8.60	1
3 MMSAUX20SM	Auxiliary Contact 2N/O (Side Mount)	£8.60	1
4 MMSU24	Under voltage trip 24V	£13.35	1
4 MMSU110	Under voltage trip 110V	£13.35	1
4 MMSU240	Under voltage trip 220-240V	£13.35	1
4 MMSU415	Under voltage trip 380-415V	£13.35	1

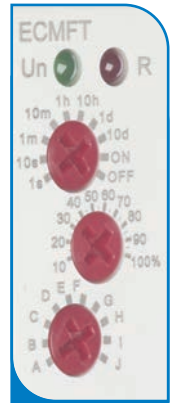
## Relays

### Multi Function Timers

Multi Function Timer 0-10 Days 16A 12-230V AC/DC



NEW

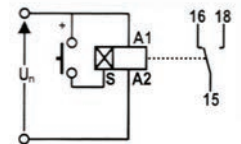


See Page 142  
for Time  
Functions



CE Certified / EN 61812

IP20 Rating  
1P Changeover contact  
10 Time Functions  
8 Time Ranges  
Module width: 17.5mm  
Din Rail Mounting  
Rated Current 16A / 230V AC



Part Number	Description	Price	Per
ECMFT	Multi Timer 0.1 Sec - 10 Days	£37.50	1

## Latching Relays

Latching Relays



NEW



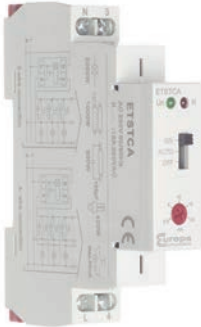
CE Certified / EN 61810 / EN 61010

IP20 Rating  
Output: 1 x SPDT (ECLR01) / 2 x SPDT (ECLR02)  
Module width: 17.5mm / Din Rail Mounting  
Rated Current 16A / AC1

Part Number	Description	Price	Per
ECLR01	16A 1P C/O 12 - 240V AC/DC	£17.55	1
ECLR02	16A 2P C/O 12 - 240V AC/DC	£21.30	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

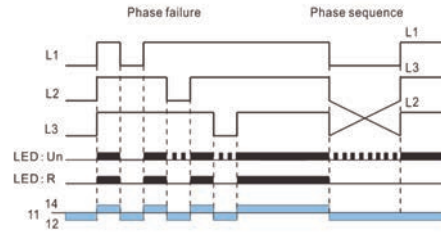
Operating Temperature -20 to +55°C

Types of lamps:

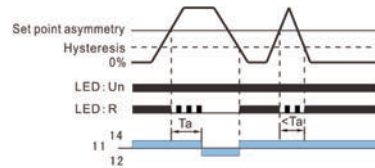
2000W	2000W	1000W	900W(125uF)	400W

Part Number	Description	Price	Per
ETSTCA	230V 0.5 - 20 Minutes	£20.04	1

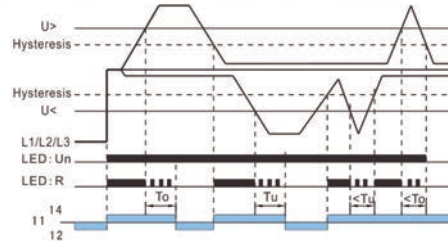
#### ●Phase failure and phase sequence function diagram



#### ●Asymmetry function diagram

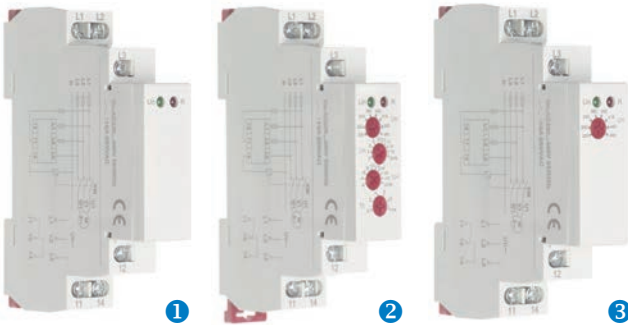


#### ●Overvoltage and undervoltage function diagram



## 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



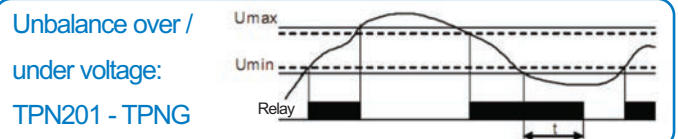
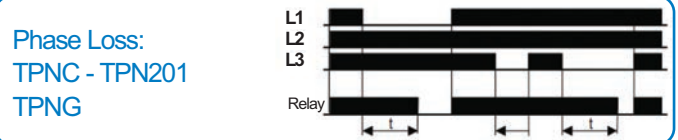
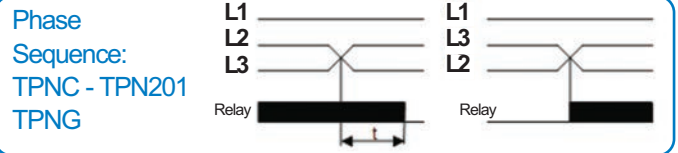
Part Number	Description	Price	Per
① ECPF03	Phase Loss / Sequence	£15.90	1
② ECPF05	Phase Loss / Sequence Unbalanced Supply	£26.40	1
③ ECPF08	Over / Under Voltage Phase Failure	£22.30	1

## Star Delta Timer Relays

### Star Delta Timer Relays (Din Rail Mounted)



Part Number	Description	Price	Per
TAY230	230V	£36.98	1
TAY400	400V	£35.26	1



# Relays for industry



## Industrial relays

### Applications:

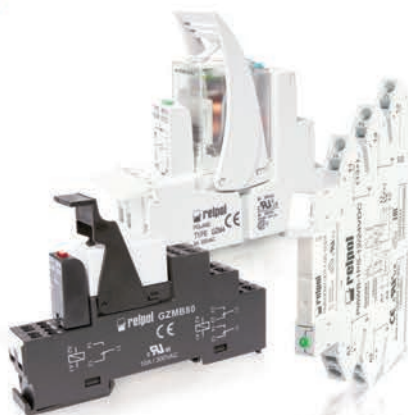
- general control of electrical equipment,
- industrial control systems,
- equipment for air-conditioning, refrigeration products, heating, ventilation, lighting,
- protection, monitoring and alarm equipment,
- control systems and devices for household equipment, electrical automation systems - industrial 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.

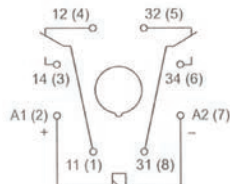


Manufacturing  
Relays and Timers  
in Europe since 1958

## Relpol Industrial Relays

### Power Relays

#### Octal 8 Pin Relays



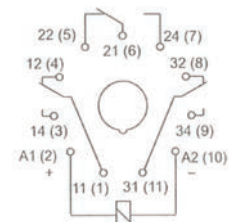
Note: marks "+" and "-" refer to versions with surge suppression element (diode).



UL, CSA and VDE Approved and Lloyds Registered  
LED, Flag Indicator and Lockable test button  
10A rated 2PCO contacts

Part Number	Description	Price	Per
R15-2012-23-1012-WTL	12V DC	£7.50	1
R15-2012-23-1024-WTL	24V DC	£7.50	1
R15-2012-23-1048-WTL	48V DC	£7.50	1
R15-2012-23-5012-WTL	12V AC	£7.50	1
R15-2012-23-5024-WTL	24V AC	£7.50	1
R15-2012-23-5048-WTL	48V AC	£7.50	1
R15-2012-23-5110-WTL	110V AC	£7.50	1
R15-2012-23-5230-WTL	230V AC	£7.50	1
GZP8-BLACK	Black Socket Terminal Type	£3.50	1
PZ8-GREY	Grey Socket Clamp Type	£4.30	1
PZ11-0031	Wire Retaining Clip	£0.31	1

#### Undecal 11 Pin Relays



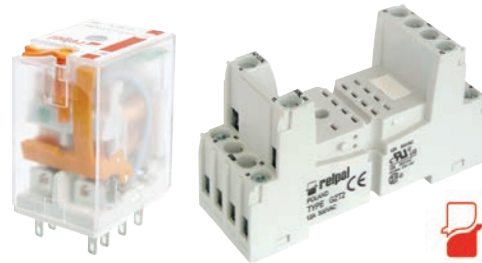
Note: marks "+" and "-" refer to versions with surge suppression element (diode).



UL, CSA and VDE Approved and Lloyds Registered  
LED, Flag Indicator and Lockable test button  
10A rated 3PCO contacts

Part Number	Description	Price	Per
R15-2013-23-1012-WTL	12V DC	£8.50	1
R15-2013-23-1024-WTL	24V DC	£8.50	1
R15-2013-23-5012-WTL	12V AC	£8.50	1
R15-2013-23-5024-WTL	24V AC	£8.50	1
R15-2013-23-5048-WTL	48V AC	£8.50	1
R15-2013-23-5110-WTL	110V AC	£8.50	1
R15-2013-23-5230-WTL	230V AC	£8.50	1
GZP11-BLACK	Black Socket Terminal Type	£3.50	1
PZ11-GREY	Grey Socket Clamp Type	£4.40	1
PZ11-0031	Wire Retaining Clip	£0.31	1

#### Miniature Industrial Relay 12A 2PCO



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	£4.20	1
R2N-2012-23-1024-WTL	24V DC	£4.20	1
R2N-2012-23-5012-WTL	12V AC	£4.20	1
R2N-2012-23-5024-WTL	24V AC	£4.20	1
R2N-2012-23-5110-WTL	110V AC	£4.20	1
R2N-2012-23-5230-WTL	230V AC	£4.20	1
GZT2-BLACK	8 Pin Socket Turret Type	£2.75	1
GZT2-GREY	8 Pin Socket Turret Type	£2.75	1
GZM2-BLACK	8 Pin Socket Isolated Terminals	£3.10	1
GZT4-0040-BLACK	Eject / Retain Clip Plastic	£0.45	1
GZT4-0040-GREY	Eject / Retain Clip Plastic	£0.45	1
ZGGZ4-BLACK	6 Way Connection Strip	£2.90	1
ZGGZ4-GREY	6 Way Connection Strip	£2.90	1

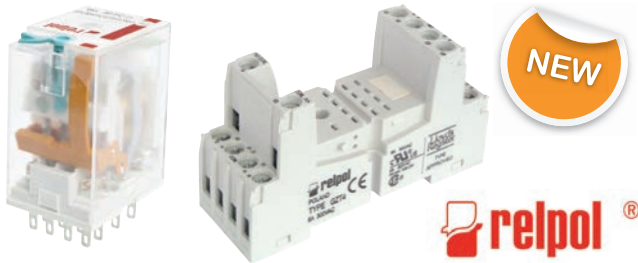
#### Miniature Industrial Relay 10A 3PCO



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	£5.10	1
R3N-2013-23-1024-WTL	24V DC	£5.10	1
R3N-2013-23-5012-WTL	12V AC	£5.10	1
R3N-2013-23-5024-WTL	24V AC	£5.10	1
R3N-2013-23-5110-WTL	110V AC	£5.10	1
R3N-2013-23-5230-WTL	230V AC	£5.10	1
GZT3-BLACK	11 Pin Socket Turret Type	£3.10	1
GZT3-GREY	11 Pin Socket Turret Type	£3.10	1
GZM3-BLACK	11 Pin Socket Isolated Terminals	£3.75	1
GZT4-0040-BLACK	Eject / Retain Clip Plastic	£0.45	1
GZT4-0040-GREY	Eject / Retain Clip Plastic	£0.45	1
ZGGZ4-BLACK	6 Way Connection Strip	£2.90	1
ZGGZ4-GREY	6 Way Connection Strip	£2.90	1

Miniature Industrial Relay 7A 4PCO



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	£4.10	1
R4N-2014-23-1024-WTL	24V DC	£4.10	1
R4N-2014-23-5012-WTL	12V AC	£4.10	1
R4N-2014-23-5024-WTL	24V AC	£4.10	1
R4N-2014-23-5110-WTL	110V AC	£4.10	1
R4N-2014-23-5230-WTL	230V AC	£4.10	1
GS4-BLACK	14 Pin Socket Clamp Type	£4.25	1
GZT4-BLACK	11 Pin Socket Turret Type	£3.10	1
GZT4-GREY	11 Pin Socket Turret Type	£3.10	1
GZM4-BLACK	11 Pin Socket Isolated Terminals	£3.75	1
GZT4-0040-BLACK	Eject / Retain Clip Plastic	£0.45	1
GZT4-0040-GREY	Eject / Retain Clip Plastic	£0.45	1
ZGGZ4-BLACK	6 Way Connection Strip	£2.90	1
ZGGZ4-GREY	6 Way Connection Strip	£2.90	1

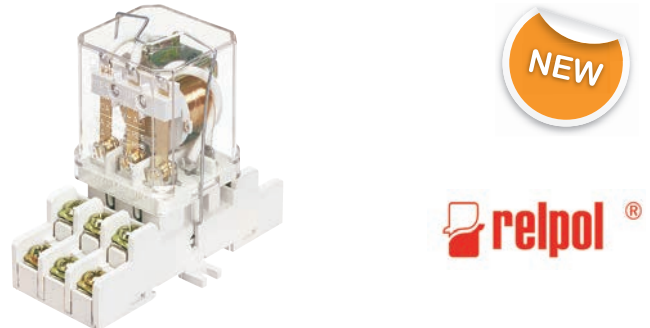
Miniature High Current Relay



UL and CSA Approved  
12A rated 2PCO Contacts / Faston Connection

Part Number	Description	Price	Per
RY2-1012-26-1024	24V DC	£9.25	1
RY2-1012-26-5024	24V AC	£9.25	1
RY2-1012-26-5230	230V AC	£9.60	1
GZY2G-BLACK	Socket for RY	£4.65	1

High Current Relay



UL and CSA Approved  
16A rated 3PCO Contacts / Faston Connection

Part Number	Description	Price	Per
RUC-1013-26-1024	24V DC	£12.60	1
RUC-1013-26-3024	24V AC	£12.60	1
RUC-1013-26-3230	230V AC	£12.90	1
GUC11-GREY	Socket for RUC	£9.25	1

High Current Din Mount Relay



2PNO Contacts  
25AAC1 / 15AAC3 rated Contacts

Part Number	Description	Price	Per
RG25-1022-28-1024	24V DC	£16.20	1
RG25-1022-28-3024	24V AC	£16.20	1
RG25-1022-28-3230	230V AC	£16.20	1
RG25-1022-28-3380	380V AC	£16.20	1

Modular Relay



Din mount in modular form / Fits into consumer units

Part Number	Description	Price	Per
MT-PI-17S-11-5230	16A SPCO 230V AC	£21.40	1
MT-PI-17S-12-5230	8A DPCO 230V AC	£32.50	1

Free standard delivery for orders over £100 nett

Under £100 delivery charge only £9.80

Next day and special deliveries available

Minimum order value only £20



## 8 Pin Slimline Relay SPCO



UL, CSA and VDE Approved  
PCB or Din Rail Socket Mounting  
SPCO 16A Contacts / 8 pin

Part Number	Description	Price	Per
RM85-2011-35-1012	12V DC	£4.00	1
RM85-2011-35-1024	24V DC	£4.00	1
RM85-2011-35-5024	24V AC	£4.00	1
RM85-2011-35-5110	110V AC	£5.10	1
RM85-2011-35-5230	230V AC	£5.10	1
GZS80-BLACK	Low Profile Socket	£3.25	1
GZT80-BLACK	Socket Isolated Terminals	£3.95	1
GZT80-GREY	Socket Isolated Terminals	£3.95	1
GZT80-0040-BLACK	Eject / Retain Clip Plastic	£0.30	1
GZT80-0040-GREY	Eject / Retain Clip Plastic	£0.30	1
ZGGZ80-GREY	8 Way Connection Strip	£2.90	1
ZGGZ80-BLACK	8 Way Connection Strip	£2.90	1

## 5 Pin Slimline Relay SPCO



UL, CSA and VDE Approved  
PCB or Din Rail Socket Mounting  
SPCO 12A Contacts / 5 pin

Part Number	Description	Price	Per
RM87N-2011-35-1012	12V DC	£3.30	1
RM87N-2011-35-1024	24V DC	£3.30	1
RM87N-2011-35-5024	24V AC	£3.30	1
RM87N-2011-35-5110	110V AC	£5.10	1
RM87N-2011-35-5230	230V AC	£5.10	1
GZS92-BLACK	Low Profile Socket	£3.25	1
GZT92-BLACK	Socket Isolated Terminals	£3.90	1
GZT92-GREY	Socket Isolated Terminals	£3.90	1
GZT80-0040-BLACK	Eject / Retain Clip Plastic	£0.30	1
GZT80-0040-GREY	Eject / Retain Clip Plastic	£0.30	1
ZGGZ80-GREY	8 Way Connection Strip	£2.90	1
ZGGZ80-BLACK	8 Way Connection Strip	£2.90	1

## 8 Pin Slimline Relay SPCO with Lockable Test Button



LED, Flag Indicator and Lockable test button  
PCB or Din Rail Socket Mounting  
SPCO 16A Contacts / 8 Pin

Part Number	Description	Price	Per
RMP85-2011-1012-WTL	12V DC	£9.80	1
RMP85-2011-1024-WTL	24V DC	£9.80	1
RMP85-2011-5024-WTL	24V AC	£9.95	1
RMP85-2011-5230-WTL	230V AC	£11.75	1
GZT80-BLACK	Socket Isolated Terminals	£3.95	1
GZT80-GREY	Socket Isolated Terminals	£3.95	1
GZS-0025-BLACK	Eject / Retain Clip Plastic	£0.19	1
ZGGZ80-GREY	8 Way Connection Strip	£2.90	1
ZGGZ80-BLACK	8 Way Connection Strip	£2.90	1

## 8 Pin Slimline Relay DPCO



UL, CSA and VDE Approved  
PCB or Din Rail Socket Mounting  
DPCO 8A Contacts / 8 pin

Part Number	Description	Price	Per
RM84-2012-35-1012	12V DC	£4.00	1
RM84-2012-35-1024	24V DC	£4.00	1
RM84-2012-35-5012	12V AC	£4.00	1
RM84-2012-35-5024	24V AC	£4.00	1
RM84-2012-35-5110	110V AC	£5.10	1
RM84-2012-35-5230	230V AC	£5.10	1
GZS80-BLACK	Low Profile Socket	£3.25	1
GZT80-BLACK	Socket Isolated Terminals	£3.95	1
GZT80-GREY	Socket Isolated Terminals	£3.95	1
GZT80-0040-BLACK	Eject / Retain Clip Plastic	£0.30	1
GZT80-0040-GREY	Eject / Retain Clip Plastic	£0.30	1
ZGGZ80-GREY	8 Way Connection Strip	£2.90	1
ZGGZ80-BLACK	8 Way Connection Strip	£2.90	1

## 8 Pin Slimline Relay DPCO with Lockable Test Button



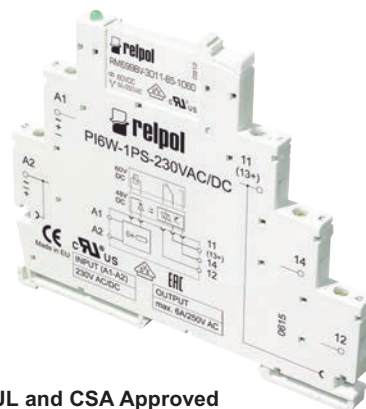
NEW



LED, Flag Indicator and Lockable test button  
PCB or Din Rail Socket Mounting  
DPCO 8A Contacts / 8 pin

Part Number	Description	Price	Per
RMP84-2012-1012-WTL	12V DC	£9.80	1
RMP84-2012-1024-WTL	24V DC	£9.80	1
RMP84-2012-5024-WTL	24V AC	£9.95	1
RMP84-2012-5230-WTL	230V AC	£11.75	1
GZT80-BLACK	Socket Isolated Terminals	£3.95	1
GZT80-GREY	Socket Isolated Terminals	£3.95	1
GZS-0025-BLACK	Eject / Retain Clip Plastic	£0.19	1
ZGGZ80-GREY	8 Way Connection Strip	£2.90	1
ZGGZ80-BLACK	8 Way Connection Strip	£2.90	1

## Interfacing Relay



NEW



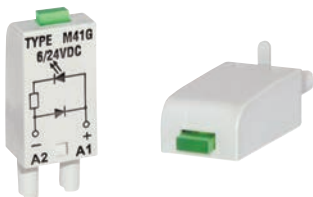
UL and CSA Approved

LED Indicator / Relay Eject Mechanism / 6mm wide din rail mounting

Part Number	Description	Price	Per
PIR6W-24VAC/DC	24V AC/DC 6A Relay Output	£9.45	1
PIR6W-230VAC	230V AC 6A Relay Output	£9.85	1
PIR6W-24VDC-T	24V DC Triac Output	£26.30	1
ZG20-RED	20 Way Comb Connection Bar	£3.50	1
ZG20-BLACK	20 Way Comb Connection Bar	£3.50	1
ZG20-BLUE	20 Way Comb Connection Bar	£3.50	1

## Relpol Process Timers

### Delay on Energisation



NEW



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	£2.20	1
M61G-BLACK	6/24V AC/DC LED Indicator	£2.20	1
M63G-BLACK	110/230V AC/DC LED Indicator	£2.20	1
M41G-BLACK	6/24V DC LED + Overvoltage Limiter	£2.20	1
M91G-BLACK	6/24V AC LED + Overvoltage Limiter	£2.20	1
M21N-GREY	6/230V DC Overvoltage Limiter	£2.20	1
M61G-GREY	6/24V AC/DC LED Indicator	£2.20	1
M63G-GREY	110/230V AC/DC LED Indicator	£2.20	1
M41G-GREY	6/24V DC LED + Overvoltage Limiter	£2.20	1
M91G-GREY	6/24V AC LED + Overvoltage Limiter	£2.20	1



NEW



14 pin 4PCO 6A contacts  
Selectable time ranges 1s to 100h  
Complete with retaining clip

Part Number	Description	Price	Per
T-R4E-2014-23-1024	24V DC	£32.20	1
T-R4E-2014-23-5024	24V AC	£32.20	1
T-R4E-2014-23-5115	115V AC	£32.20	1
T-R4E-2014-23-5230	230V AC	£32.20	1



5PM cut off for standard same day despatch

Direct to site delivery available

Call sales for further details: 01582 692 440

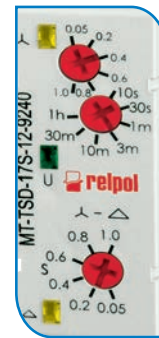
## Delay on De-energisation



14 pin 4PCO 6A contacts  
Selectable time ranges 1s to 100h / Complete with retaining clip

Part Number	Description	Price	Per
T-R4WU-2014-23-1024	24V DC	£32.20	1
T-R4WU-2014-23-5024	24V AC	£32.20	1
T-R4WU-2014-23-5230	230V AC	£32.20	1

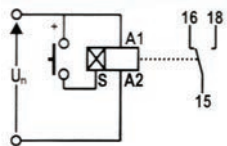
## Star Delta Timer



SPCO 16A rated contact  
Modular din rail mount  
Adjustable Dwell Time

Part Number	Description	Price	Per
MT-TSD-17S-12-9240	12/240V AC/DC	£37.50	1

## Multifunction Timer



7 Function / 8 Time Ranges  
SPCO 16A rated contact / Modular din rail mount

Part Number	Description	Price	Per
MT-TUA-17S-11-9240-7	12/240V AC/DC	£37.50	1

See Page 142 for Time Functions

## Asymmetrical Recycling Timer



SPCO 16A rated contact  
Modular din rail mount  
Selectable time ranges 1s to 100h

Part Number	Description	Price	Per
MT-TIP-17S-11-9240	12/240V AC/DC	£32.50	1

## Multifunction Digital Timer



22 Function / 8 Time Ranges  
SPCO 16A rated contact / Modular din rail mount

Part Number	Description	Price	Per
MT-W-17S-11-9240-M	12/240V AC/DC	£67.40	1



**Europa**  
components

See page 27 for our range of analogue and digital time clocks.

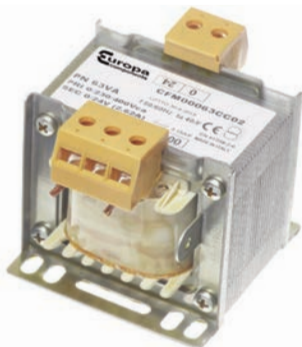
See page 96 for staircase timers, phase failure relays and star delta timer relays.



## Transformers

### Panel Transformers

#### Open Transformers (IP00)



Europa  
components

UL Approved; EN 61558-2-6 standard; Class F rated  
Open Frame (IP00)  
Dual Input Voltage: 230/400V / Output Voltage: 24VAC

Part Number	Description	Price	Per
CFM-040-CC02	40VA	£27.95	1
CFM-050-CC02	50VA	£30.20	1
CFM-063-CC02	63VA	£31.24	1
CFM-100-CC02	100VA	£39.30	1
CFM-160-CC02	160VA	£53.21	1
CFM-250-CC02	250VA	£62.54	1
CFM-300-CC02	300VA	£74.29	1
CFM-500-CC02	500VA	£103.44	1
CFM-1K0-CC02	1KVA	£178.54	1

#### Safety Transformer (IP20)



Europa  
components

UL Approved; EN 61558-2-6 standard; Class B rated  
Enclosed (IP20) / Din Rail Mounting  
Dual Input Voltage: 230/400V / Output Voltage: 24VAC

Part Number	Description	Price	Per
IPB-050-CC02	50VA	£39.12	1
IPB-100-CC02	100VA	£48.23	1
IPB-160-CC02	160VA	£68.70	1
IPB-250-CC02	250VA	£77.22	1
IPB-300-CC02	300VA	£85.21	1

NB: Other sizes and types available on request

## Switch Mode Power Supplies

### Power Supplies

#### 24V DC Output



Europa  
components

CE Certified  
Wide AC and DC input range  
Fully protected against overload and over voltage  
High load stability  
Adjustable DC output + / - 10%  
LED Indication for power on

Part Number	Description	Price	Per
SMP-20-24	20W	£24.85	1
SMP-60-24	60W	£33.00	1
SMP-100-24	100W	£45.00	1
SMP-120-24	120W	£41.66	1
SMP-240-24	240W	£85.00	1

## Hour Run Counters

#### 48mm Hour Run Meter (IP65)



UL CSA CE & VDE Approved

Part Number	Description	Price	Per
HM632.2.24.50	24V AC 50HZ Black	£18.79	1
HM632.2.110.50	110V AC 50HZ Black	£17.18	1
HM632.2.230.50	230V AC 50HZ Black	£17.18	1
HM632.2.230.60	230V AC 60HZ Black	£15.18	1
HM632.2.10-80.DC	10-80V DC	£51.98	1

#### HM632 Hour Run Meter Bezels



Part Number	Description	Price	Per
C5555	55mm bezel for HM632 range	£1.90	1
C7272	72mm bezel for HM632 range	£1.95	1

### 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	£7.10	1
4.16.26.10.64	10 uF 40 x 72	£7.03	1
4.16.26.11.64	12 uF 40 x 98	£8.93	1
4.16.26.15.64	15 uF 40 x 98	£9.70	1
4.16.26.19.64	20uF 45 x 98	£10.75	1
4.16.26.20.64	25uF 45 x 122	£12.94	1
4.16.26.24.64	40uF 55 x 122	£18.55	1

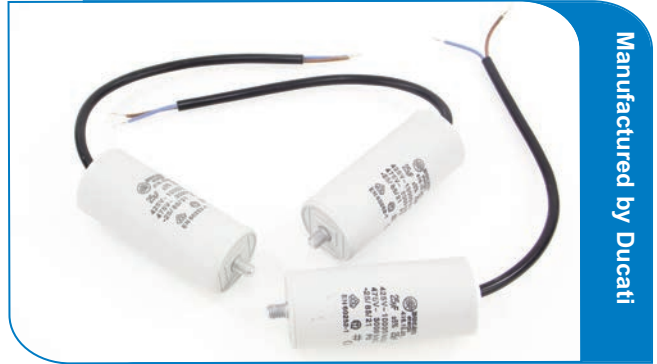
#### Ducati Plastic Case with Spade Terminals 450V



Manufactured by Ducati

Part Number	Description	Price	Per
4.16.15.69.64	1 uF 28 x 55	£2.46	1
4.16.15.01.64	2 uF 28 x 55	£2.53	1
4.16.10.03.64	3 uF 28 x 55	£2.89	1
4.16.10.06.64	4 uF 28 x 55	£2.73	1
4.16.10.08.64	5 uF 28 x 55	£3.24	1
4.16.10.13.64	8 uF 32 x 55	£3.87	1
4.16.10.15.64	10 uF 36 x 58	£4.78	1
4.16.10.17.64	12 uF 36 x 70	£5.20	1
4.16.10.22.64	15 uF 36 x 70	£5.76	1
4.16.10.24.64	18 uF 40 x 70	£6.96	1
4.16.10.25.64	20 uF 40 x 70	£7.31	1
4.16.10.26.64	25 uF 40 x 92	£8.86	1
4.16.10.70.64	30 uF 40 x 92	£9.91	1
4.16.10.65.64	36 uF 45 x 92	£11.61	1
4.16.10.29.64	40 uF 45 x 92	£12.72	1
4.16.10.65.14	36 uF 45 x 92	£12.17	1
4.16.10.30.64	50 uF 45 x 117	£15.48	1
4.16.10.61.64	60 uF 45 x 92	£16.59	1

#### Ducati Plastic Case with Leads 450V



Manufactured by Ducati

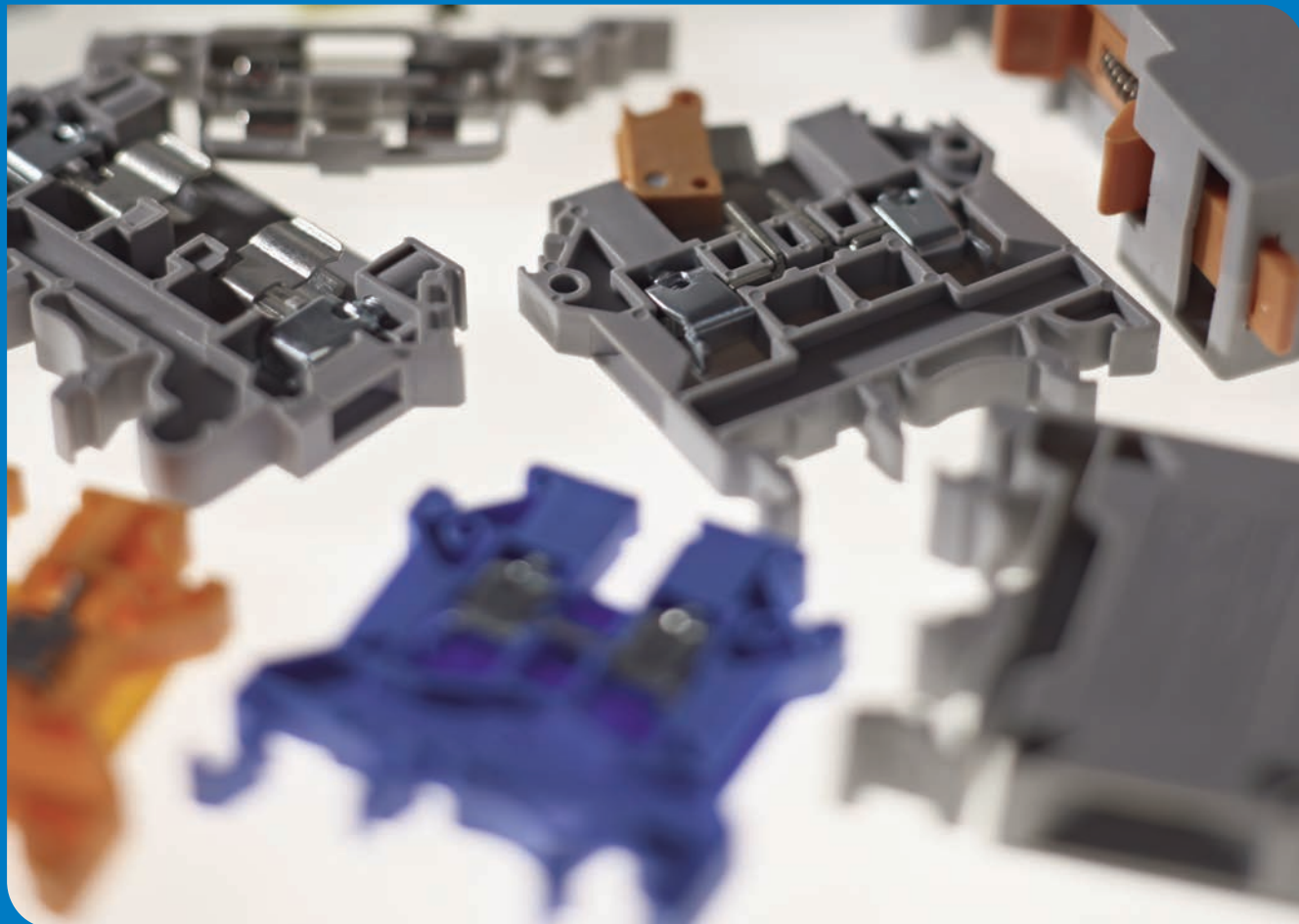
Part Number	Description	Price	Per
4.16.15.69.14	1 uF 28 x 55	£2.95	1
4.16.15.01.14	2 uF 28 x 55	£2.60	1
4.16.15.28.14	2.5 uF 28 x 55	£3.16	1
4.16.10.03.14	3 uF 28 x 55	£3.16	1
4.16.10.06.14	4 uF 28 x 55	£3.30	1
4.16.10.08.14	5 uF 28 x 55	£4.21	1
4.16.10.09.14	6uF 28 x 55	£3.47	1
4.16.10.13.14	8 uF 32 x 55	£4.50	1
4.16.10.15.14	10 uF 36 x 58	£5.34	1
4.16.10.17.14	12 uF 36 x 70	£6.05	1
4.16.10.22.14	15 uF 36 x 70	£6.61	1
4.16.10.24.14	18 uF 40 x 70	£7.73	1
4.16.10.25.14	20 uF 40 x 70	£7.73	1
4.16.10.26.14	25 uF 40 x 92	£9.21	1
4.16.10.70.14	30 uF 40 x 92	£10.75	1
4.16.10.65.14	36 uF 45 x 92	£12.17	1
4.16.10.29.14	40 uF 45 x 92	£13.50	1
4.16.10.30.14	50 uF 45 x 117	£19.89	1

listed in  
**LUCKINSlive**



**Europa**  
components

See from page 92 for our range of motor starters.

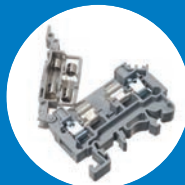


## Feed-through screw clamp terminals: CTS2.5UN - CTS95U



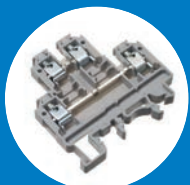
A versatile range of universal (35mm) din rail mounting terminal blocks taking wire from 0.5 to 95mm sq. The flexible foot enables easy mount / dismount from the din rail with a screwdriver. The terminals are available in a variety of colours and take international K (insert type) markers.

## 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 a 6.3A 5x20mm glass fuse. A wider range complete with an LED fuse blown indicator are also available. Please ask sales for details.

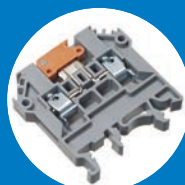
## Double level terminals: CDL4U



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.

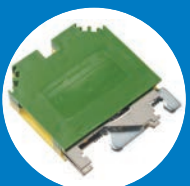
## Knife disconnect terminals: CKT4U



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.

## Accessories:

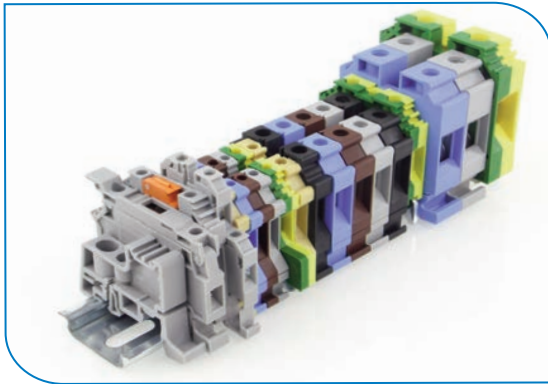


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## Din Rail Terminals



UR, CSA & VDE Certified

**NB:** A wider range of colours and sizes are available from stock

Part Number	Description	Price	Per
CTS2.5UN	2.5mm Grey	£35.98	100
CTS4UN	4mm Grey	£41.24	100
CTS6U	6mm Grey	£49.18	100
CTS10U	10mm Grey	£64.38	100
CTS16U	16mm Grey		
	(with Integrated End Plate)	£95.26	100
CTS25U	25mm Grey	£110.15	100
CTS35U	35mm Grey	£184.13	100
CTS50U	50mm Grey		
	(with Integrated End Plate)	£11.64	1
CTS95U	95mm Grey		
	(with Integrated End Plate)	£19.07	1
CSFL4U	4mm fuse term Grey (use 5x20mm fuse)	£129.79	100
CDL-4U	4mm Grey Double Decker Terminal	£113.79	100
CKT4U	4mm Grey Knife Disconnect Terminal	£162.15	100
CTS2.5UNBLUE	2.5mm Blue	£43.49	100
CTS4UNBLUE	4mm Blue	£49.83	100
CTS6UNBLUE	6mm Blue	£59.43	100
CTS10UBBLUE	10mm Blue	£77.26	100
CTS16UBBLUE	16mm Blue (with Integrated End Plate)	£114.31	100
CTS25UBBLUE	25mm Blue	£132.18	100
CTS35UBBLUE	35mm Blue	£220.96	100
CTS50UBBLUE	50mm Blue (with Integrated End Plate)	£13.97	1
CTS95UBBLUE	95mm Blue (with Integrated End Plate)	£22.88	1

**Blue Terminals** - for easier identification of the neutral connection

● CTS6UNBLACK	6mm Black	£59.43	100
● CTS10UBBLACK	10mm Black	£77.26	100
● CTS2.5UNBROWN	2.5mm Brown	£43.49	100
● CTS4UNBROWN	4mm Brown	£49.83	100
● CTS6UNBROWN	6mm Brown	£59.43	100
● CTS10UBBROWN	10mm Brown	£77.26	100
● CTS2.5UNBEIGE	2.5mm Beige	£43.49	100
● CTS4UNBEIGE	4mm Beige	£49.83	100

**Earth Terminals**

CGT4U	4mm Earth Terminal	£138.08	100
CGT6U	6mm Earth Terminal	£164.78	100
CGT10U	10mm Earth Terminal	£229.87	100
CGT16U	16mm Earth Terminal	£284.55	100
CGT35U	35mm Earth Terminal	£497.12	100

## 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	£21.62	100
CSFLEPU	4mm Fuse Terminal Grey	£26.32	100
CDL-4U-EP	4mm Double Decker Grey	£26.17	100
CKTEPU	4mm Grey Knife Disconnect End Plate	£28.93	100
CTSEP2U	6 - 10mm Grey	£21.62	100
CTSEP3U	25mm Grey	£53.85	100
CTSEP4U	35mm Grey	£53.85	100
● CTSEP5UBLUE	2.5 - 4mm Blue	£25.95	100
● CTSEP2UBLUE	6 - 10mm Blue	£25.95	100
● CTSEP3UBLUE	25mm Blue	£64.62	100
● CTSEP4UBLUE	35mm Blue	£64.62	100
● CTSEP5UBLACK	2.5 - 4mm Black	£25.95	100
● CTSEP2UBLACK	6 - 10mm Black	£25.95	100
● CTSEP5UBROWN	2.5 - 4mm Brown	£25.95	100
● CTSEP2UBROWN	6 - 10mm Brown	£25.95	100
● CTSEP5UBEIGE	2.5 - 4mm Beige	£25.95	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	£32.48	100
CTSP2U	6 - 10mm Grey	£36.03	100
CTSP3U	25mm Grey	£53.86	100
CTSP4U	35mm Grey	£53.86	100

## Blank Terminal Markers



Numbered markers are available from stock

Part Number	Description	Price	Per
CA509/K2	* Blank for 4-35mm (1/2 Height)	£6.25	100
CA509/K5	Blank 2.5mm	£3.62	100
CA509/K6	Blank 4mm	£3.62	100
CA509/K8	Blank 6mm	£3.62	100
CA509/K9	Blank 8mm	£3.62	100
CA509/K10	Blank 10mm	£3.62	100
CA509/K12	Blank 16mm and 25mm	£3.62	100
CA509/K15	Blank 35mm	£3.62	100

\* The CA509/K2 should also be used with the CDL-4U double decker terminal.

## Jumper Bars (10 Way Insulated Shorting Links)



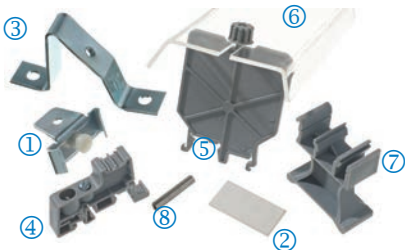
Part Number	Description	Price	Per
CA741/10	2.5mm 10 Way Ins Shorting Link	£4.85	1
CA742/10	4mm 10 Way Ins Shorting Link	£4.85	1
CA743/10	6mm 10 Way Ins Shorting Link	£4.85	1
CA744/10	10mm 10 Way Ins Shorting Link	£5.47	1
CA761/10	16mm 10 Way Ins Shorting Link	£6.83	1
CA745/10	25mm 10 Way Ins Shorting Link	£7.37	1
CA746/10	35mm 10 Way Ins Shorting Link	£8.27	1

## 10 Way Insulated Comb Busbar



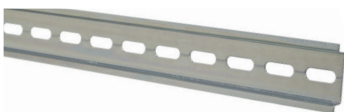
Part Number	Description	Price	Per
CA713/10	for 4mm <sup>2</sup> Terminals	£1.50	1
CA710/10	for 6mm <sup>2</sup> Terminals	£1.80	1
CA718/10	for 10mm <sup>2</sup> Terminals	£2.25	1

## Din Rail Terminal Accessories



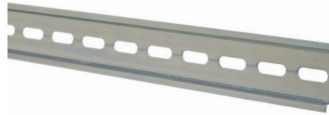
Part Number	Description	Price	Per
①CA302	Steel End Clamp For Din 35 Rail	£0.37	1
②CA509/G1	Group Marker	£31.83	100
③CA603	Mounting Bracket 40° from Horizontal	£50.63	100
④CA702	End Stop (keeps end plate in position)	£0.45	1
⑤CSP1	Holding Plate	£0.50	1
⑥CTSPC	Protective Cover 150mm	£0.92	1
⑦GMH7	Group Marker Holder	£75.27	100
⑧CSFL4UCL	Copper Link for Fuse Terminal	£46.82	100

## Slotted Top Hat Din Rail 35 x 7.5mm



Part Number	Description	Price	Per
STBDR0.5M	35mm Top Hat 0.5 metre	£1.10	Length
STBDR1M	35mm Top Hat 1 metre	£2.02	Length
STBDR2M	35mm Top Hat 2 metre (Pack of 10)	£41.20	Pack

## Slotted Top Hat Din Rail 35 x 15mm



Part Number	Description	Price	Per
STBDR2M15S	35mm Top Hat 2 metre (Pack of 10)	£79.20	Pack

## Plain Top Hat Din Rail 35 x 7.5mm



Part Number	Description	Price	Per
● STBDR0.5MP	Plain 35mm Top Hat 0.5 metre	£1.10	1
● STBDR1MP	Plain 35mm Top Hat 1 metre	£1.96	1
STBDR2MP	Plain 35mm Top Hat Din Rail (pack of 10)	£41.20	Pack

## Plain G Din Rail 32 x 15mm



Part Number	Description	Price	Per
STBGDR2MP	Plain 32mm G Din Rail 2 Metre (pack of 10)	£79.20	Pack

	CTS2.5UN	CTS4UN	CTS6U	CTS10U	CTS16U	CTS25U	CTS35U	CTS50U	CTS95U
<b>Terminal Block Pitch (mm)</b>	5	6	8	10	12	12	15	20.5	25
<b>Connection Via Stranded Wire (sq. mm)</b>	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
<b>Connection Via Solid Wire (sq. mm)</b>	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
<b>Voltage Rating</b>	800V	800V	800V	800V	800V	800V	800V	1000V	1000V
<b>Current Rating</b>	24A	32A	41A	57A	76A	101A	125A	150A	232A

	CGT4U Earth Terminal	CGT6U Earth Terminal	CGT10U Earth Terminal	CGT16U Earth Terminal	CGT35U Earth Terminal
<b>Terminal Block Pitch (mm)</b>	6	8	10	12	16
<b>Connection Via Stranded Wire (sq. mm)</b>	0.5 to 4	1.5 to 6	0.5 to 10	2.5 to 16	10 to 35
<b>Connection Via Solid Wire (sq. mm)</b>	0.5 to 6	1.5 to 10	0.5 to 16	2.5 to 25	10 to 50
<b>Current Rating</b>	32A	41A	57A	76A	125A

## Warning Beacons

### Warning Tower Beacons

#### 70mm LED Modules



Unique click-fit modular design for easy connection and installation. Long life / low maintenance / low power consumption LED lights / switchable flash / constant light / adjustable volume control 4 tone alarm / entire range IP65 rated / 5 mounting options  
Available in 24V or 85-275V AC

50mm range also available

Part Number	Description	Price	Per
DIS7211	● 70mm Blue 85-275V AC	£37.74	1
DIS7212	● 70mm Green 85-275V AC	£45.42	1
DIS7213	● 70mm Red 85-275V AC	£34.65	1
DIS7214	○ 70mm White 85-275V AC	£45.42	1
DIS7215	● 70mm Amber 85-275V AC	£34.65	1
DIS7221	● 70mm Blue 24V DC	£34.65	1
DIS7222	● 70mm Green 24V DC	£42.32	1
DIS7223	● 70mm Red 24V DC	£31.52	1
DIS7224	○ 70mm White 24V DC	£42.32	1
DIS7225	● 70mm Amber 24V DC	£31.52	1

- **Red** - signifies danger status, immediate action required.
- **Green** - signifies normal status, no action required.
- **White** - signifies other status, can be identified by the user.
- **Amber** - signifies abnormal status, monitor or action required.
- **Blue** - signifies discontinuity status, action mandatory.

#### 70mm Standard 4 Bolt Bases



Our most popular bases....

Part Number	Description	Price	Per
DIS7001	4 Bolt Base 70mm Black	£12.29	1
DIS7002	4 Bolt Base 70mm White	£16.01	1

Choose from 5 mounting options in either black or white with matching cap and 70mm diameter. 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.

#### 70mm Caps, Brackets & Bases (with 100mm tube)



Part Number	Description	Price	Per
①DIS7311	70mm Black Cap + L Bracket	£16.94	1
①DIS7312	70mm White Cap + L Bracket	£22.04	1
②DIS7321	70mm Black Cap + Rotating Bracket	£26.94	1
②DIS7322	70mm White Cap + Rotating Bracket	£35.02	1
③DIS7331	70mm Black Cap + Threaded Bracket	£13.07	1
③DIS7332	70mm White Cap + Rotating Threaded Bracket	£17.00	1
④DIS7341	70mm Black Cap + Standard Base	£12.29	1
④DIS7342	70mm White Cap + Standard Base	£16.01	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	£38.43	1

A wider range is available with a choice of different colours, voltages and sizes - please ask....

## LED Beacons

### LED High Profile Beacons



**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	£40.53	1
LT-LEDMVAMBER	LED Multi-volt 10-100V DC Amber	£40.53	1

### LED Low Profile Beacons



**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	£39.85	1
LP-LED110/230RED	LED 110V / 230V Red	£39.85	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	£66.51	1
470003	10-30V DC 15W Red	£66.51	1

## Xenon Beacons

### High Profile Xenon Beacons



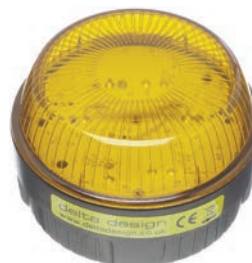
**CE Certified**

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	£35.61	1
LT4XMV/2RED	2W Multi-volt 10-100V DC / 20-72V AC Red	£35.61	1

### Low Profile Xenon Beacons



**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	£28.54	1
LP4XMV/2RED	2W Multi-volt 10-100V DC / 20-72V AC Red	£28.54	1
LP1X110/2	2W 110V AC (90-125V AC) Amber	£29.84	1
LP1X110/2RED	2W 110V AC (90-125V AC) Red	£29.84	1
LP1X230/2	2W 230V AC Amber	£28.86	1
LP1X230/2RED	2W 230V AC Red	£28.86	1

Part Number	Description	Price	Per
LPFX2	<b>Mounting Base for LP &amp; LT Beacons</b>	£3.51	1

Part Number	Description	Price	Per
521058	<b>Sounder + Pole for LP &amp; LT Beacons</b> 72dB 12-24V AC/DC	£61.41	1

A wider range is available with a choice of **different colours**,  
voltages and sizes - please ask...

### 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	50-013-01	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



**Quick Reference Fuse Index**

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Miniature Fuses + Fuse Kits <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">NEW</span>	121 - 125
Multi Meter Fuses (UR 1000V)	125
NH Knife Blade Fuses, Holders & Accessories	130 - 134
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**Special Offer - for this page only!**  
100+ mixed price available

## BS88 HRC Fuses

### Industrial

**NIT NITD SA2**

**Box Qty 10**



**MERSEN**

**LAWSON**  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

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	£2.70	1
50-085-01/4A	4A	£2.70	1
50-085-01/6A	6A	£2.70	1
50-085-01/10A	10A	£2.70	1
50-085-01/16A	16A	£3.05	1
50-085-01/20A	20A	£3.05	1
50-085-01/25A	25A	£3.05	1
50-085-01/32A	32A	£3.05	1

**NB:** Also available in a Motor Rated Version

**TIA AAO SB3**

**Box Qty 10**



**MERSEN**

**LAWSON**  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

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	£4.35	1
50-001-01/4A	4A	£4.35	1
50-001-01/6A	6A	£4.35	1
50-001-01/10A	10A	£4.35	1
50-001-01/16A	16A	£4.35	1
50-001-01/20A	20A	£4.35	1
50-001-01/25A	25A	£4.35	1
50-001-01/32A	32A	£4.35	1

**NB:** Also available in a Motor Rated Version

**TIS BAO SB4**

**Box Qty 10**



**MERSEN**

**LAWSON**  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

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	£6.90	1
50-002-01/40A	40A	£6.90	1
50-002-01/50A	50A	£6.90	1
50-002-01/63A	63A	£6.90	1

**NB:** Also available in a Motor Rated Version

**NS NSD SN2**

**Box Qty 10**



**MERSEN**

**LAWSON**  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V AC 80kA

Overall length: 61mm Diameter: 14mm (Size F1)

Part Number	Description	Price	Per
50-086-01/2A	2A	£2.70	1
50-086-01/4A	4A	£2.70	1
50-086-01/6A	6A	£2.70	1
50-086-01/10A	10A	£2.70	1
50-086-01/16A	16A	£2.70	1
50-086-01/20A	20A	£3.05	1
50-086-01/25A	25A	£3.05	1
50-086-01/32A	32A	£3.45	1

## TIS BAO OS OSD SB4

Box Qty 10



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Fixing Centres: 73mm Diameter 26mm 415V 80kA

Part Number	Description	Price	Per
TIS80A	80A	£13.19	1
TIS100A	100A	£13.60	1
TIS125A	125A	£17.62	1

## TCP CEO SD5

Box Qty 10



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V AC 80KA

Fixing Centres: 94mm Diameter: 25mm (29mm 80A, 100A) (Size A4)  
ASTA 20 Certified

Part Number	Description	Price	Per
50-003-01/63A	63A	£12.36	1
50-003-01/80A	80A	£12.98	1
50-003-01/100A	100A	£12.98	1

Please Note: A Lawson range is also available from 6A upwards.

NB: Also available in a Motor Rated Version

## TFP DEO SD6

Box Qty 3



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80KA

Fixing Centres: 94mm Diameter: 38mm  
ASTA 20 Certified

Part Number	Description	Price	Per
50-004-01/125A	125A	£22.50	1
50-004-01/160A	160A	£23.50	1
50-004-01/200A	200A	£24.00	1

ⓘ 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



LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Lawson

Rated at 240V 20kA

12.7 x 51mm

Part Number	Description	Price	Per
SS2	2A	£2.79	1
SS4	4A	£2.79	1
SS6	6A	£2.79	1
SS10	10A	£2.79	1
SS16	16A	£2.79	1
SS20	20A	£2.99	1
SS25	25A	£2.99	1
SS32	32A	£2.99	1

## MES ES ESD SP

Box Qty 10



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80kA / 69 x 17.5mm

Part Number	Description	Price	Per
MES10	10A	£6.08	1
MES16	16A	£6.08	1
MES20	20A	£6.39	1
MES32	32A	£6.39	1
MES40	40A	£7.11	1
MES50	50A	£7.73	1
MES63	63A	£8.24	1

## TB AC SE4

Box Qty 10



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80KA / Fixing Centres: 97mm Diameter: 22mm

ASTA 20 Certified

Part Number	Description	Price	Per
50-006-01/20A	20A	£8.97	1
50-006-01/32A	32A	£8.97	1
50-006-01/40A	40A	£9.07	1
50-006-01/50A	50A	£9.07	1
50-006-01/63A	63A	£9.07	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
50-007-01/16A	16A	£8.97	1
50-007-01/20A	20A	£8.97	1
50-007-01/25A	25A	£8.97	1
50-007-01/32A	32A	£8.97	1
50-007-01/40A	40A	£9.07	1
50-007-01/50A	50A	£9.07	1
50-007-01/63A	63A	£9.07	1

NB: Also available in a Motor Rated Version

TC CD SF5

Box Qty 1



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 26mm / ASTA 20 Certified / Size (B1)

Part Number	Description	Price	Per
50-008-01/80A	80A	£13.50	1
50-008-01/100A	100A	£13.50	1

NB: Also available in a Motor Rated Version

TF DD SF6

Box Qty 3



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 35mm / ASTA 20 Certified / Size (B2)

Part Number	Description	Price	Per
50-009-01/125A	125A	£21.50	1
50-009-01/160A	160A	£22.00	1
50-009-01/200A	200A	£22.50	1

NB: Also available in a Motor Rated Version

TKF ED SF7

Box Qty 3



Manufactured by Mersen / Lawson  
Rated at 415V 80KA / Fixing Centres: 111mm Diameter: 41mm  
ASTA 20 Certified (Size B3)

Part Number	Description	Price	Per
50-010-01/250A	250A	£31.50	1
50-010-01/315A	315A	£34.50	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 / ASTA 20 Certified  
(Size C1)

Part Number	Description	Price	Per
TKM200	200A	£29.67	1
50-011-01/250A	250A	£32.50	1
50-011-01/315A	315A	£34.50	1

NB: Other values available on request

TMF ED SF8

Box Qty 3



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 51mm / ASTA 20 Certified  
(Size B4)

Part Number	Description	Price	Per
50-110-01/355A	355A	£47.10	1
50-110-01/400A	400A	£49.00	1

## TM EF SH8

Box Qty 3



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 111mm Diameter: 51mm / ASTA 20 Certified  
(Size B4)

Part Number	Description	Price	Per
50-039-01/355A	355A	£43.10	1
50-039-01/400A	400A	£45.00	1

## TTM FF SH9

Box Qty 1



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 133mm inner holes / 184mm outer holes  
Diameter: 61mm / ASTA 20 Certified / (Size C2)

Part Number	Description	Price	Per
50-040-01/500A	500A	£67.50	1
50-040-01/560A	560A	£71.80	1
50-040-01/630A	630A	£79.40	1

## TLM GF SH10

Box Qty 1



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 133mm inner holes / 184mm outer holes  
Diameter: 73mm  
ASTA 20 Certified / (Size C3)

Part Number	Description	Price	Per
50-041-01/710A	710A	£148.32	1
50-041-01/800A	800A	£155.33	1

## JPU JP JCS MJ30

Box Qty 1



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Fixing Centres: 82mm 415V

Part Number	Description	Price	Per
JPU63	63A	£25.24	1
JPU80	80A	£25.24	1
JPU100	100A	£25.24	1
JPU125	125A	£25.24	1
JPU160	160A	£25.24	1
JPU200	200A	£29.67	1
JPU250	250A	£29.67	1
JPU315	315A	£29.67	1
JPU355	355A	£34.20	1
JPU400	400A	£35.23	1

Please Note: The JHU range with 72mm fixing is also available on request

## JSU JS JCS MJ31

Box Qty 1



MERSEN

LAWSON  
POWER SAFE SOLUTIONS

Manufactured by Mersen / Lawson

Fixing Centres: 92mm 415V

Part Number	Description	Price	Per
JSU20	20A	£28.95	1
JSU32	32A	£28.95	1
JSU40	40A	£28.95	1
JSU50	50A	£28.95	1
JSU63	63A	£28.95	1
JSU80	80A	£28.95	1
JSU100	100A	£28.95	1
JSU125	125A	£28.95	1
JSU160	160A	£28.95	1
JSU200	200A	£28.95	1
JSU250	250A	£32.04	1
JSU315	315A	£32.04	1
JSU355	355A	£34.82	1
JSU400	400A	£35.85	1
JSU500	500A	£51.92	1
JSU630	630A	£76.28	1

See page 110 for a cross reference / selection chart for J type fuses

listed in  
**LUCKINSlive**

LST STD LS 240V

Box Qty 10



Manufactured by Lawson

Fixing Centres: 38.5mm / 48 x 12.7mm 240V

Part Number	Description	Price	Per
LST2	2A	£2.58	1
LST4	4A	£2.58	1
LST6	6A	£2.58	1
LST10	10A	£2.58	1
LST16	16A	£2.58	1
LST20	20A	£2.79	1
LST25	25A	£2.79	1
LST32	32A	£2.79	1

MD SMD 415V

Box Qty 10



Manufactured by Lawson

Rated at 415V 80kA / 29 x 12.7mm / ASTA 20 Certified

Part Number	Description	Price	Per
MD2	2A	£3.76	1
MD4	4A	£3.76	1
MD6	6A	£3.76	1
MD8	8A	£3.76	1
MD10	10A	£3.76	1
MD16	16A	£3.76	1
MD20	20A	£3.76	1
MD25	25A	£3.76	1
MD32	32A	£3.76	1

Motor Rated BS88 Fuses

NIT NITD SA2 aM

Box Qty 10



Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 44.5mm / Diameter: 14mm (16mm 32M40-M63A)

Part Number	Description	Price	Per
NIT20M25	20M25A	£3.60	1
NIT20M32	25M32A	£3.60	1
NIT32M40	32M40A	£7.50	1
NIT32M50	32M50A	£8.00	1
NIT32M63	32M63A	£8.00	1

TIA AAO SB2 aM

Box Qty 10



Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 73mm Diameter: 22mm

Part Number	Description	Price	Per
50-001-16/40A	32M40A	£6.49	1
50-001-16/50A	32M50A	£6.49	1
50-001-16/63A	32M63A	£6.91	1

NB: Other values available on request

TIS BAO SB4 aM

Box Qty 10



Manufactured by Mersen / Lawson

Rated at 415V 80kA

Fixing Centres: 73mm Diameter: 26mm

Part Number	Description	Price	Per
50-002-16/80A	63M80A	£12.20	1
50-002-16/100A	63M100A	£11.80	1

NB: Other values available on request

TIS OS OSD aM

Box Qty 10



Manufactured by Mersen / Lawson

Rated at 415V AC 80kA

Fixing Centres: 73mm Diameter: 24mm

Part Number	Description	Price	Per
TIS100M125	100M125A	£19.57	1

Free standard delivery for orders over £100 nett

Under £100 delivery charge only £9.80

Next day and special deliveries available

Minimum order value only £20



## TCP CEO SD5 aM

Box Qty 10



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 94mm Diameter: 35mm

Part Number	Description	Price	Per
50-003-16/125A	100M125A	£19.70	1
50-003-16/160A	100M160A	£20.30	1
50-003-16/200A	100M200A	£21.90	1

## TF DD SF aM

Box Qty 3



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 41mm

Part Number	Description	Price	Per
50-009-16/250A	200M250A	£35.44	1
50-009-16/315A	200M315A	£35.75	1

## NS NSD SN2 aM

Box Qty 10



Manufactured by Mersen / Lawson  
Rated at 415V AC 80kA  
Overall Length: 62mm Diameter 13.5mm (17.5mm 32M40-M63)

Part Number	Description	Price	Per
NS20M25	20M25A	£3.70	1
NS20M32	20M32A	£3.70	1
NS32M40	32M40A	£7.50	1
NS32M50	32M50A	£8.00	1
NS32M63	32M63A	£8.00	1

**NB:** Other values are available on request.

Please note that 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 / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 35mm

Part Number	Description	Price	Per
50-008-16/125A	100M125A	£19.50	1
50-008-16/160A	100M160A	£20.10	1

## TKF ED SF7 aM

Box Qty 3



Manufactured by Mersen / Lawson  
Rated at 415V 80kA  
Fixing Centres: 111mm Diameter: 51mm

Part Number	Description	Price	Per
50-010-16/400A	315M400A	£49.40	1

## Semi Conductor Fuses to BS88

### LCT GSA

Box Qty 10



Please Note!  
GEC part numbers given are for reference purposes only - Please do check with technical sales for specific cross references.

Manufactured by Siba  
Fixing Centres: 38.1mm / 8 x 47.6mm 250V

Part Number	Description	Price	Per
50-076-06/5A	5A	£5.80	1
50-076-06/10A	10A	£5.80	1
50-076-06/16A	16A	£5.80	1
50-076-06/20A	20A	£5.80	1

**NB:** Indicator kit available on request

Many more specialist fuses are available. Please ask....

LET GSA GSD

Box Qty 10



Manufactured by Siba

Fixing Centres: 41.8mm / 17.5 x 58mm 250V

Part Number	Description	Price	Per
50-053-06/16A	16A	£8.50	1
50-053-06/20A	20A	£8.50	1
50-053-06/25A	25A	£8.50	1
50-053-06/32A	32A	£8.50	1
50-053-06/35A	35A	£8.50	1
50-053-06/50A	50A	£8.50	1
50-053-06/63A	63A	£8.50	1
50-053-06/75A	75A	£8.50	1
50-053-06/80A	80A	£8.50	1
50-053-06/100A	100A	£8.95	1
50-053-06/125A	125A	£9.80	1
50-053-06/160A	160A	£9.80	1
50-053-06/180A	180A	£9.80	1
LET-KIT	Trip Indicator & Clips	£10.55	1

NB: Indicator kit available on request

LMT GSA GSD

Box Qty 2



Manufactured by Siba

Fixing Centres: 60.3mm  
34.6 x 85mm 250V

Part Number	Description	Price	Per
50-054-06/200A	200A	£26.30	1
50-054-06/250A	250A	£26.30	1
50-054-06/300A	300A	£29.60	1
50-054-06/350A	350A	£30.40	1
LMT-KIT	Trip Indicator & Clips	£10.90	1

NB: Indicator kit available on request

CT GSB

Box Qty 10



Manufactured by Siba

Fixing Centres: 64mm / 8 x 73mm / 690V

Part Number	Description	Price	Per
50-077-06/10A	10A	£6.75	1
50-077-06/16A	16A	£6.75	1
50-077-06/20A	20A	£6.75	1

NB: Indicator kit available on request

ET FE GSGB

Box Qty 10



Manufactured by Siba

Fixing Centres: 63mm / 17.5 x 77mm / 690V

Part Number	Description	Price	Per
50-073-06/16A	16A	£7.95	1
50-073-06/20A	20A	£7.95	1
50-073-06/25A	25A	£7.95	1
50-073-06/32A	32A	£7.95	1
50-073-06/35A	35A	£8.35	1
50-073-06/40A	40A	£9.95	1
50-073-06/45A	45A	£9.95	1
50-073-06/50A	50A	£9.95	1
50-073-06/56A	56A	£10.25	1
50-073-06/63A	63A	£10.25	1
50-073-06/75A	75A	£10.25	1
50-073-06/80A	80A	£10.25	1
50-073-06/100A	100A	£10.70	1
ET-KIT	Trip Indicator & Clips	£11.60	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	£20.11	1
20-559-20/125A	125A	£20.11	1
20-559-20/160A	160A	£21.11	1
20-559-20/250A	250A	£23.73	1
20-559-20/315A	315A	£24.99	1

MT GSGB

Box Qty 3



Manufactured by Siba

Fixing Centres: 81.7mm / 34.6 x 107mm / 690V

Part Number	Description	Price	Per
50-074-06/100A	100A	£21.10	1
50-074-06/160A	160A	£21.80	1
50-074-06/180A	180A	£23.00	1
50-074-06/200A	200A	£23.00	1
50-074-06/250A	250A	£28.80	1
MT-KIT	Trip Indicator & Clips	£12.96	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	£47.70	1
50-075-06/225A	225A	£47.70	1
50-075-06/250A	250A	£47.70	1
50-075-06/300A	300A	£47.70	1
50-075-06/350A	350A	£47.70	1
50-075-06/400A	400A	£51.50	1
50-075-06/450A	450A	£51.50	1
50-075-06/500A	500A	£55.25	1

## 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	£17.20	1
XS20	20A	£20.69	1
XS32	32A	£20.69	1
XS40	40A	£20.69	1
XS50	50A	£20.69	1
XS63	63A	£20.69	1
XS80	80A	£22.33	1
XS100	100A	£24.48	1
XS125	125A	£29.85	1

## Solid / Neutral Links for BS88 Fuses

### BS88 Compact Dimension Type

Box Qty 10



Manufactured by Mersen / Lawson

Part Number	Description	Price	Per
SLF120	Solid Link E1 (SS fuse) Rated 20A	£8.80	10
SLF132	Solid Link F1 (NS fuse) Rated 32A	£8.80	10
SLF263	Solid Link F2 (MES fuse) Rated 63A	£18.60	10

### BS88 Bolted Type

\* Box Qty (Shown Below)



Manufactured by Mersen / 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	£1.65	1
SLA232	Solid Link A2 (TIA fuse) Rated 32A	£1.76	1
SLA363	Solid Link A3 (TIS fuse) Rated 63A	£2.17	1
SLA4100	Solid Link A4 (TCP fuse) Rated 100A	£2.37	1
SLA4200	Solid Link A4 (TFP fuse) Rated 200A	£2.99	1
SLB2200	Solid Link B2 (TF fuse) Rated 200A	£3.09	1
SLB3315	Solid Link B3 (TKF fuse) Rated 315A	£3.20	1
SLB4400	Solid Link B4 (TMF fuse) Rated 400A	£6.91	1

With our fuse database we can cross reference over 25,000 fuses at the touch of a button. Contact sales with any fuse queries for an immediate solution.





## 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 Mersen / Lawson

Bolt In 660 / 690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI20FC/BCBK	Front / Back Connected	£15.50	1
LBI20FC/FCBK	Front Connected	£14.68	1

### LBI32 for TIA / GTIA Fuses (Bolt In) Box Qty 10

Manufactured by Mersen / Lawson

Bolt In 660 / 690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI32BC/BCBK	Back Connected	£22.40	1
LBI32FC/BCBK	Front / Back Connected	£20.42	1
LBI32FC/FCBK	Front Connected	£18.76	1

### LBI63 for TIS Fuses (Bolt In) Box Qty 10

Manufactured by Mersen / Lawson

Bolt In 660 / 690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI63FC/BCBK	Front / Back Connected	£24.20	1
LBI63FC/FCBK	Front Connected	£22.47	1

### LBI100 for TCP Fuses (Bolt In) Box Qty 5

Manufactured by Mersen / Lawson

Bolt In 660 / 690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI100BC/BCBK	Back Connected	£48.65	1
LBI100FC/BCBK	Front / Back Connected	£44.20	1
LBI100FC/FCBK	Front Connected	£39.85	1

### LBI200 for TF Fuses (Bolt In) Box Qty 2

Manufactured by Mersen / Lawson

Bolt In 660 / 690V / Comply with BS88: Part 2 ASTA Certified

Part Number	Description	Price	Per
LBI200FC/FCBK	Front Connected	£118.60	1

### LCF20 for SS Fuses (Clip Fit)

Box Qty 10



Manufactured by Mersen / Lawson

Clipfit 240 / 415V / ASTA Certified

Part Number	Description	Price	Per
LCF20FC/FCBK	Front Connected	£8.16	1

### LCF32 for NS Fuses (Clip Fit)

Box Qty 10

Manufactured by Mersen / Lawson

Clipfit 240 / 415V / ASTA Certified

Part Number	Description	Price	Per
LCF32BC/BCBK	Back Connected	£12.45	1
LCF32FC/BCBK	Front / Back Connected	£10.43	1
LCF32FC/FCBK	Front Connected	£7.88	1

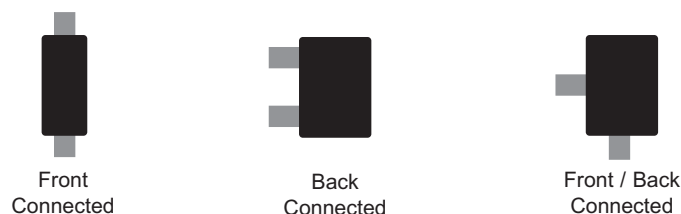
### LCF63 for MES Fuses (Clip Fit)

Box Qty 10

Manufactured by Mersen / Lawson

Clip fit 240 / 415V / ASTA Certified

Part Number	Description	Price	Per
LCF63FC/BCBK	Front / Back Connected	£20.06	1
LCF63FC/FCBK	Front Connected	£15.15	1



## Domestic Fuses

### Plug Top Fuses

#### Plug Top (BS1362) TDC180

Box Qty 10



Part Number	Description	Price	Per
50-030-04/1A	1A	£58.43	100
50-030-04/2A	2A	£58.43	100
50-030-04/3A	3A	£30.75	100
50-030-04/5A	5A	£30.75	100
50-030-04/7A	7A	£58.43	100
50-030-04/10A	10A	£30.75	100
50-030-04/13A	13A	£30.75	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	£0.81	1
BL2	2A	£0.81	1
BL3	3A	£0.81	1
BL5	5A	£0.81	1

## 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	£1.18	1
LA5	5A	£1.18	1

### LC D15 C15 (BS1361) Box Qty 10



Manufactured by Lawson  
10.32 x 26mm 240V

Part Number	Description	Price	Per
LC5	5A <b>Black</b>	£2.25	1
LC10	10A <b>Black</b>	£2.25	1
LC15	15A <b>Blue</b>	£2.25	1
LC20	20A <b>Yellow</b>	£2.25	1

### LD C30 (BS1361) Box Qty 10



Manufactured by Lawson / 12.7 x 29mm 240V

Part Number	Description	Price	Per
LD6	6A <b>Black</b>	£2.58	1
LD10	10A <b>Black</b>	£2.58	1
LD16	16A <b>Black</b>	£2.58	1
LD20	20A <b>Black</b>	£2.58	1
LD25	25A <b>Black</b>	£2.58	1
LD30	30A <b>Red</b>	£2.58	1

## LK C45 LCS (BS1361)

Box Qty 10



Manufactured by Lawson  
16.67 x 35mm 240V

Part Number	Description	Price	Per
LK35	35A <b>Black</b>	£5.15	1
LK45	45A <b>Green</b>	£5.15	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	£6.80	1
ME10	10A	£6.80	1
ME15	15A	£6.80	1
ME20	20A	£6.80	1
ME30	30A	£6.80	1
ME40	40A	£6.80	1
ME45	45A	£6.80	1
ME50	50A	£6.80	1
ME60	60A	£6.80	1
ME80	80A	£6.80	1
ME100	100A	£6.80	1



① Can be used with our Single Phase Switch Fuse on page 21

### MF RHLF LR85

Box Qty 10



Manufactured by Mersen / Lawson  
30.16 x 57mm 415V

Part Number	Description	Price	Per
MF50	50A	£8.55	1
MF60	60A	£8.55	1
MF80	80A	£8.55	1
MF100	100A	£8.55	1

① Slydlock Fuses & Holders are available on request....



## Fuse Kits

### Fuse Kits (5x20mm & Plug Top)



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 5x20mm fuses containing: 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 5A, 6.3A & 10A / **NB:** Other versions available on request

Part Number	Description	Price	Per
EFK180/1	180pcs mixed fuses	£32.50	1

## Miniature Fuses

### 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	£21.21	100
70-001-34/0.063A	63mA	£21.21	100
70-001-34/0.08A	80mA	£21.21	100
70-001-34/0.125A	125mA	£21.21	100
70-001-34/0.16A	160mA	£21.21	100
70-001-34/0.1A	100mA	£21.21	100
70-001-34/0.25A	250mA	£12.34	100
70-001-34/0.2A	200mA	£12.34	100
70-001-34/0.315A	315mA	£12.34	100
70-001-34/0.4A	400mA	£12.34	100
70-001-34/0.5A	500mA	£12.34	100
70-001-34/0.63A	630mA	£12.34	100
70-001-34/0.8A	800mA	£12.34	100
70-001-34/1A	1A	£12.34	100
70-001-34/1.25A	1.25A	£12.34	100
70-001-34/1.6A	1.6A	£12.34	100
70-001-34/2A	2A	£12.34	100
70-001-34/2.5A	2.5A	£12.34	100
70-001-34/3A	3A	£12.34	100
70-001-34/3.15A	3.15A	£12.34	100
70-001-34/4A	4A	£12.34	100
70-001-34/5A	5A	£12.34	100
70-001-34/6.3A	6.3A	£12.34	100
70-001-34/7A	7A	£12.34	100
70-001-34/8A	8A	£12.34	100
70-001-34/10A	10A	£12.34	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	£28.77	100
70-001-02/0.5A	500mA	£28.77	100
70-001-02/1A	1A	£28.77	100
70-004-02/1.6A	1.6A	£27.41	100
70-004-02/2A	2A	£27.41	100
70-004-02/2.5A	2.5A	£27.41	100
70-004-02/3.15A	3.15A	£27.41	100
70-004-02/4A	4A	£27.41	100
70-004-02/5A	5A	£27.41	100
70-004-02/6.3A	6.3A	£27.41	100
70-004-02/8A	8A	£27.41	100
70-004-02/10A	10A	£27.41	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	£22.63	100
70-001-35/0.25A	250mA	£22.63	100
70-001-35/0.315A	315mA	£22.63	100
70-001-35/0.4A	400mA	£22.63	100
70-001-35/0.5A	500mA	£13.76	100
70-001-35/0.63A	630mA	£13.76	100
70-001-35/0.8A	800mA	£13.76	100
70-001-35/1A	1A	£13.76	100
70-001-35/1.25A	1.25A	£13.76	100
70-001-35/1.6A	1.6A	£13.76	100
70-001-35/2A	2A	£13.76	100
70-001-35/2.5A	2.5A	£13.76	100
70-001-35/3.15A	3.15A	£13.76	100
70-001-35/4A	4A	£13.76	100
70-001-35/5A	5A	£13.76	100
70-001-35/6.3A	6.3A	£13.76	100
70-001-35/8A	8A	£13.76	100
70-001-35/10A	10A	£13.76	100
70-001-35/12.5A	12.5A	£27.41	100
70-001-35/16A	16A	£41.16	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	£30.19	100
70-007-33/0.315A	315mA	£30.19	100
70-007-33/0.5A	500mA	£21.26	100
70-007-33/0.63A	630mA	£21.26	100
70-007-33/0.8A	800mA	£21.26	100
70-007-33/1A	1A	£21.26	100
70-007-33/1.25A	1.25A	£21.26	100
70-007-33/1.6A	1.6A	£21.26	100
70-007-33/2.5A	2.5A	£21.26	100
70-007-33/2A	2A	£21.26	100
70-007-33/3.15A	3.15A	£21.26	100
70-007-33/4A	4A	£21.26	100
70-007-33/5A	5A	£21.26	100
70-007-33/6.3A	6.3A	£21.26	100
70-007-33/8A	8A	£21.26	100
70-007-33/10A	10A	£21.26	100
70-007-33/12.5A	12.5A	£21.26	100
70-007-33/16A	16A	£21.26	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	£30.19	100
70-007-65/0.315A	315mA	£30.19	100
70-007-65/0.5A	500mA	£21.26	100
70-007-65/0.8A	800mA	£21.26	100
70-007-65/1A	1A	£21.26	100
70-007-65/1.25A	1.25A	£21.26	100
70-007-65/1.6A	1.6A	£21.26	100
70-007-65/2A	2A	£21.26	100
70-007-65/2.5A	2.5A	£21.26	100
70-007-65/3.15A	3.15A	£21.26	100
70-007-65/4A	4A	£21.26	100
70-007-65/5A	5A	£21.26	100
70-007-65/6.3A	6.3A	£21.26	100
70-007-65/8A	8A	£24.68	100
70-007-65/10A	10A	£24.68	100
70-007-65/12.5A	12.5A	£24.68	100
70-007-65/16A	16A	£24.68	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	£99.02	100
70-001-40/1A	1A	£99.02	100
70-001-40/1.6A	1.6A	£99.02	100
70-001-40/2A	2A	£99.02	100
70-001-40/3.15A	3.15A	£99.02	100
70-001-40/5A	5A	£99.02	100
70-001-40/6.3A	6.3A	£99.02	100
70-001-40/8A	8A	£99.02	100
70-001-40/10A	10A	£99.02	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	£131.25	100
70-059-60/0.25A	250mA	£100.28	100
70-059-60/0.315A	315mA	£26.67	100
70-059-60/0.5A	500mA	£23.31	100
70-059-60/0.63A	630mA	£23.31	100
70-059-60/0.8A	800mA	£23.31	100
70-059-60/1A	1A	£23.31	100
70-059-60/1.25A	1.25A	£23.31	100
70-059-60/1.6A	1.6A	£23.31	100
70-059-60/2A	2A	£23.31	100
70-059-60/2.5A	2.5A	£23.31	100
70-059-60/3.15A	3.15A	£23.31	100
70-059-60/4A	4A	£23.31	100
70-059-60/5A	5A	£23.31	100
70-059-60/6.3A	6.3A	£23.31	100
70-059-60/8A	8A	£23.31	100
70-059-60/10A	10A	£23.31	100
70-059-60/12.5A	12.5A	£23.31	100
70-059-60/16A	16A	£23.31	100
70-059-60/20A	20A	£23.31	100

NB: Other values available on request

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	£24.68	100
70-059-61/0.5A	500mA	£24.68	100
70-059-61/0.63A	630mA	£24.68	100
70-059-61/0.8A	800mA	£24.68	100
70-059-61/1A	1A	£24.68	100
70-059-61/1.25A	1.25A	£24.68	100
70-059-61/1.6A	1.6A	£24.68	100
70-059-61/2A	2A	£24.68	100
70-059-61/2.5A	2.5A	£24.68	100
70-059-61/3.15A	3.15A	£24.68	100
70-059-61/4A	4A	£24.68	100
70-059-61/5A	5A	£24.68	100
70-059-61/6.3A	6.3A	£24.68	100
70-059-61/8A	8A	£24.68	100
70-059-61/10A	10A	£24.68	100
70-059-61/12.5A	12.5A	£24.68	100
70-059-61/16A	16A	£24.68	100
70-059-61/20A	20A	£24.68	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	£46.62	100
70-065-63/1A	1A	£46.62	100
70-065-63/1.6A	1.6A	£46.62	100
70-065-63/2A	2A	£46.62	100
70-065-63/3A	3A	£46.62	100
70-065-63/4A	4A	£46.62	100
70-065-63/5A	5A	£46.62	100
70-065-63/6.3A	6.3A	£46.62	100
70-065-63/8A	8A	£46.62	100
70-065-63/10A	10A	£46.62	100
70-065-63/12.5A	12.5A	£46.62	100
70-065-63/16A	16A	£46.62	100
70-065-63/20A	20A	£61.74	100
70-065-63/25A	25A	£61.74	100
70-065-63/1.25A	1.25A	£46.62	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	£50.72	100
70-065-65/1A	1A	£50.72	100
70-065-65/1.6A	1.6A	£50.72	100
70-065-65/2A	2A	£50.72	100
70-065-65/2.5A	2.5A	£50.72	100
70-065-65/3A	3A	£50.72	100
70-065-65/3.15A	3.15A	£50.72	100
70-065-65/5A	5A	£50.72	100
70-065-65/6.3A	6.3A	£50.72	100
70-065-65/8A	8A	£50.72	100
70-065-65/10A	10A	£50.72	100
70-065-65/12.5A	12.5A	£101.48	100
70-065-65/16A	16A	£101.48	100
70-065-65/20A	20A	£127.52	100
70-065-65/25A	25A	£134.40	100
70-065-65/32A	32A	£178.29	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	£226.28	100
70-125-40/1A	1A	£226.28	100
70-125-40/1.6A	1.6A	£226.28	100
70-125-40/2A	2A	£226.28	100
70-125-40/3.15A	3.15A	£226.28	100
70-125-40/5A	5A	£226.28	100
70-125-40/6.3A	6.3A	£226.28	100
70-125-40/8A	8A	£226.28	100
70-125-40/10A	10A	£226.28	100
70-125-40/12.5A	12.5A	£226.28	100
70-125-40/16A	16A	£226.28	100
70-125-40/20A	20A	£226.28	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	£108.36	100
70-002-34/1.25A	1.25A	£108.36	100
70-002-34/1.6A	1.6A	£108.36	100
70-002-34/2A	2A	£108.36	100
70-002-34/3.15A	3.15A	£108.36	100
70-002-34/5A	5A	£108.36	100
70-002-34/6.3A	6.3A	£108.36	100
70-002-34/8A	8A	£108.36	100
70-002-34/10A	10A	£108.36	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	£164.54	100
70-002-02/1A	1A	£164.54	100
70-005-02/1.6A	1.6A	£164.54	100
70-005-02/2A	2A	£164.54	100
70-005-02/3.15A	3.15A	£164.54	100
70-005-02/4A	4A	£164.54	100
70-005-02/5A	5A	£164.54	100
70-005-02/6.3A	6.3A	£164.54	100
70-005-02/8A	8A	£164.54	100
70-005-02/10A	10A	£164.54	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	£209.79	100
70-010-04/2A	2A	£209.79	100
70-010-04/3.15A	3.15A	£209.79	100
70-010-04/4A	4A	£209.79	100
70-010-04/5A	5A	£209.79	100
70-010-04/6.3A	6.3A	£209.79	100
70-010-04/8A	8A	£209.79	100
70-010-04/10A	10A	£209.79	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	£335.27	100
70-010-05/0.5A	500mA	£335.27	100
70-010-05/1A	1A	£335.27	100
70-010-05/1.6A	1.6A	£215.25	100
70-010-05/2A	2A	£215.25	100
70-010-05/2.5A	2.5A	£215.25	100
70-010-05/3.15A	3.15A	£215.25	100
70-010-05/4A	4A	£215.25	100
70-010-05/5A	5A	£215.25	100
70-010-05/6.3A	6.3A	£215.25	100
70-010-05/10A	10A	£215.25	100
70-010-05/8A	8A	£215.25	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	£148.05	100
70-003-34/1A	1A	£148.05	100
70-003-34/1.6A	1.6A	£148.05	100
70-003-34/2A	2A	£148.05	100
70-003-34/3.15A	3.15A	£148.05	100
70-003-34/4A	4A	£148.05	100
70-003-34/5A	5A	£148.05	100
70-003-34/6.3A	6.3A	£148.05	100
70-003-34/10A	10A	£148.05	100
70-003-34/8A	8A	£148.05	100

**NB:** Other values available on request

Many more specialist fuses  
are available. Please ask...

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	£148.05	100
70-003-02/1A	1A	£148.05	100
70-003-02/1.25A	1.25A	£148.05	100
70-006-02/1.6A	1.6A	£150.89	100
70-006-02/2A	2A	£150.89	100
70-006-02/2.5A	2.5A	£150.89	100
70-006-02/3.15A	3.15A	£150.89	100
70-006-02/4A	4A	£150.89	100
70-006-02/5A	5A	£150.89	100
70-006-02/6.3A	6.3A	£150.89	100
70-006-02/8A	8A	£150.89	100
70-006-02/10A	10A	£150.89	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	£4.26	1
70-172-40/0.4A	400mA	£4.26	1
70-172-40/0.5A	500mA	£4.26	1
70-172-40/0.8A	800mA	£4.26	1
70-172-40/1A	1A	£4.26	1
70-172-40/1.6A	1.6A	£4.26	1
70-172-40/2A	2A	£4.26	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	£6.24	1

10 x 38mm uR 1000V for Multi Meters Box Qty 10



Manufactured by Siba  
1000V AC

Part Number	Description	Price	Per
50-199-06/0.44A	440mA	£10.66	1
50-199-06/11A	11A	£10.66	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	£0.75	1
15013	2A	£0.49	1
15019	4A	£0.49	1
15023	6A	£0.49	1
15031	10A	£0.49	1
15035	16A	£0.49	1
15037	20A	£0.49	1
15039	25A	£0.71	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	£0.83	1
15513	2A	£0.71	1
15519	4A	£0.71	1
15523	6A	£0.71	1
15531	10A	£0.71	1

NB: Other values available on request

## 8 x 31mm Fuse Holders (Din Rail Mounting)



Manufactured by Mersen  
Din Rail Mounting

Part Number	Description	Price	Per
24000	MSC 8 / 10 Neutral	£4.63	1
24002	MS 1P	£3.95	1
24014	MS 3P	£14.98	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	£7.43	1
50-225-26/15A	15A	£7.43	1
50-225-26/20A	20A	£7.43	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	£9.79	1
50-215-26/12A	12A	£9.79	1
50-215-26/15A	15A	£9.79	1
50-215-26/16A	16A	£9.79	1
50-215-26/20A	20A	£9.79	1



Please see from page 68 for more PV items.

## 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	£0.90	1
16013	2A	£0.52	1
16019	4A	£0.52	1
16023	6A	£0.52	1
16027	8A	£0.52	1
16031	10A	£0.52	1
16033	12A	£0.66	1
16035	16A	£0.52	1
16037	20A	£0.58	1
16039	25A	£0.58	1
16043	32A	£0.58	1

NB: Other values available on request

## 10 x 38mm aM (Motor Rated)

Box Qty 10



Manufactured by Mersen  
Rated at 500V 120kA up to 20A (400V 120kA 25A & 32A)

Part Number	Description	Price	Per
16511	1A	£0.96	1
16513	2A	£0.60	1
16519	4A	£0.60	1
16523	6A	£0.60	1
16527	8A	£0.60	1
16531	10A	£0.60	1
16533	12A	£0.60	1
16535	16A	£0.60	1
16537	20A	£0.62	1
16539	25A	£0.62	1
16543	32A	£0.83	1

NB: Other values available on request

Many more specialist fuses  
are available.

Our X-reference database has over 25,000 entries.  
Please call sales for details.



10 x 38mm 600V uR (Ultra Rapid) **Box Qty 10**



Manufactured by Siba  
600V

Part Number	Description	Price	Per
60-033-05/2A	2A	£5.90	1
60-033-05/4A	4A	£5.90	1
60-033-05/6A	6A	£5.90	1
60-033-05/10A	10A	£5.90	1
60-033-05/16A	16A	£5.90	1
60-033-05/20A	20A	£5.90	1
60-033-05/25A	25A	£5.90	1
60-033-05/30A	30A	£5.90	1

**i** 660V version available on request

10 x 38mm 690V uR (Ultra Rapid) **Box Qty 10**



Manufactured by Siba  
690V

Part Number	Description	Price	Per
50-179-06/2A	2A	£6.49	1
50-179-06/4A	4A	£6.49	1
50-179-06/6A	6A	£6.49	1
50-179-06/10A	10A	£6.49	1
50-179-06/16A	16A	£6.49	1
50-179-06/20A	20A	£6.49	1
50-179-06/25A	25A	£6.49	1
50-179-06/30A	30A	£6.49	1

10 x 38mm Fuse Holders (Din Rail Mounting)



Manufactured by Mersen  
\*CMS Modular Fuse Base

Part Number	Description	Price	Per
24202	MSC 1P	£3.66	1
24206	MSC 1P + Neutral (single module)	£4.59	1
24212	MSC 2P	£10.82	1
24214	MSC 3P	£13.29	1

\*The above CMS Fuse Holders can take uR fuses up to 27A with 6mm<sup>2</sup> cable

10 x 38mm Fuse Holder for uR gPV 1000V DC String Fuses



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	£9.40	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	£1.30	1
17035	16A	£1.30	1
17037	20A	£1.30	1
17039	25A	£1.30	1
17043	32A	£1.38	1
17047	40A	£1.38	1
17051	50A	£1.43	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	£1.30	1
17537	20A	£1.30	1
17539	25A	£1.30	1
17543	32A	£1.45	1
17547	40A	£1.45	1
17551	50A	£1.45	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	£8.26	1
50-124-06/6A	6A	£8.26	1
50-124-06/8A	8A	£8.26	1
50-124-06/10A	10A	£8.26	1
50-124-06/16A	16A	£8.26	1
50-124-06/20A	20A	£8.44	1
50-124-06/25A	25A	£8.44	1
50-124-06/32A	32A	£8.73	1
50-124-06/40A	40A	£8.73	1
50-124-06/50A	50A	£9.44	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	£13.81	1
50-126-06/25A	25A	£13.81	1
50-126-06/32A	32A	£13.81	1
50-126-06/40A	40A	£13.81	1
50-126-06/50A	50A	£15.87	1

### 14 x 51mm Fuse Holders (Din Rail Mounting)



Manufactured by Mersen  
Din Rail Mounting

Part Number	Description	Price	Per
29002	MS 1P	£9.92	1
29014	MS 3P	£33.96	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	£2.81	1
18047	40A	£2.81	1
18051	50A	£2.81	1
18055	63A	£2.81	1
18059	80A	£2.81	1
18063	100A	£3.07	1
18065	125A	£3.07	1

NB: Other values available on request

#### 22 x 58mm aM (Motor Rated)

Box Qty 10



Manufactured by Mersen

Rated at 690V 80kA up to 80A (500V 120kA 100A / 400V 120kA 125A)

Part Number	Description	Price	Per
18543	32A	£2.81	1
18547	40A	£2.81	1
18551	50A	£2.81	1
18555	63A	£3.17	1
18559	80A	£3.17	1
18563	100A	£3.28	1
18565	125A	£3.28	1

NB: Other values available on request



Contact sales for details of Europa  
Display Pack - Clam Packed P.O.S.  
range...



22 x 58mm 690V uR (Ultra Rapid)

Box Qty 10



Manufactured by Siba

Part Number	Description	Price	Per
50-140-06/32A	32A	£10.68	1
50-140-06/40A	40A	£14.69	1
50-140-06/50A	50A	£14.69	1
50-140-06/63A	63A	£15.05	1
50-140-06/80A	80A	£15.05	1
50-140-06/100A	100A	£17.94	1

22 x 58mm 690V uR (Ultra Rapid + Striker)

Box Qty 10



Manufactured by Siba

Part Number	Description	Price	Per
50-142-06/25A	25A	£14.93	1
50-142-06/32A	32A	£14.93	1
50-142-06/40A	40A	£17.94	1
50-142-06/50A	50A	£17.94	1
50-142-06/63A	63A	£19.35	1
50-142-06/80A	80A	£19.35	1
50-142-06/100A	100A	£20.47	1

22 x 58mm Fuse Holders (Din Rail Mounting)



Manufactured by Mersen  
Din Rail Mounting

Part Number	Description	Price	Per
29202	MS 1P	£14.25	1
29214	MS 3P	£45.32	1

Neutral Links



Manufactured by Mersen

Part Number	Description	Price	Per
19000	8X31	£0.99	1
19100	10X38	£0.89	1
19200	14X51	£1.38	1
19300	22X58	£2.72	1

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	£0.73	1
D01/4A/GL	4A	£0.73	1
D01/6A/GL	6A	£0.71	1
D01/10A/GL	10A	£0.68	1
D01/16A/GL	16A	£0.68	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	£0.78	1
D02/25A/GL	25A	£0.78	1
D02/35A/GL	35A	£0.86	1
D02/50A/GL	50A	£1.12	1
D02/63A/GL	63A	£1.12	1

## 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	£0.99	1
DI/4A/GL	4A	£0.99	1
DI/6A/GL	6A	£0.99	1
DI/10A/GL	10A	£0.84	1
DI/16A/GL	16A	£0.84	1
DI/20A/GL	20A	£1.05	1
DI/25A/GL	25A	£1.05	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	£1.35	1
DIII/50A/GL	50A	£1.67	1
DIII/63A/GL	63A	£1.67	1

## DII (E27) gL (Diazed)

DII (E27) gL 22mm x 50mm (Diazed) **Box Qty 5**



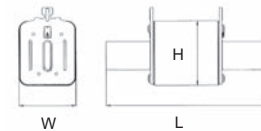
Manufactured by ETI  
500V AC

Part Number	Description	Price	Per
DII/2A/GL	2A	£0.80	1
DII/4A/GL	4A	£0.80	1
DII/6A/GL	6A	£0.80	1
DII/10A/GL	10A	£0.58	1
DII/16A/GL	16A	£0.58	1
DII/20A/GL	20A	£0.84	1
DII/25A/GL	25A	£0.84	1

## NH Blade Type Fuses

### NH Size 00 Blade Type Fuses

NHc00 Compact (000) gL 500V **Box Qty 10 or 3**



Manufactured by Siba  
With Combi indicator  
Dimensions: W 20.5 / H 40.5 / L 78

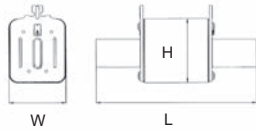
Part Number	Description	Price	Per
20-000-13/6A	6A	£8.99	1
20-000-13/10A	10A	£4.37	1
20-000-13/16A	16A	£4.37	1
20-000-13/20A	20A	£4.37	1
20-000-13/25A	25A	£4.37	1
20-000-13/32A	32A	£4.37	1
20-000-13/35A	35A	£4.37	1
20-000-13/40A	40A	£4.37	1
20-000-13/50A	50A	£4.37	1
20-000-13/63A	63A	£4.37	1
20-000-13/80A	80A	£4.37	1
20-000-13/100A	100A	£4.37	1

**A full range of ETI Bases, Gauge Pieces & Screw Caps are available from stock.**

Please ask sales for further details.

listed in  
**LUCKINSlive**

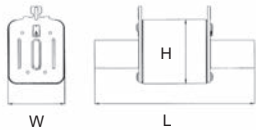
**NH00 gL (General Line) 500V** **Box Qty 10 or 3**



Manufactured by Siba  
With Combi indicator  
Dimensions: W 29.5 / H 46 / L 78

Part Number	Description	Price	Per
20-001-13/125A	125A	£5.52	1
20-001-13/160A	160A	£5.70	1

**NH000 / NH00 aM (Motor Rated) 690V** **Box Qty 3**



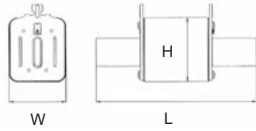
Manufactured by Siba  
With Combi indicator  
20-477-08 Dimensions: W 20.5 / H 47 / L 78  
Other amperages available on request

Part Number	Description	Price	Per
20-477-08/35A	35A	£10.29	1
20-477-08/40A	40A	£10.29	1
20-477-08/50A	50A	£10.29	1

20-209-08 Dimensions: W 29.5 / H 47 / L 78

20-209-08/63A	63A	£11.74	1
20-209-08/80A	80A	£11.74	1
20-209-08/100A	100A	£12.65	1
20-209-08/125A	125A	£12.65	1

**NH00 uR (Ultra Rapid) 500V** **Box Qty 3**

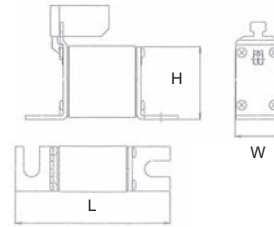
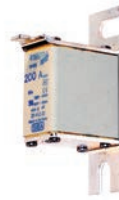


Manufactured by Siba  
With Combi indicator  
Dimensions: W 28 / H 42 / L 78

Part Number	Description	Price	Per
20-001-04/100A	100A	£23.65	1
20-001-04/125A	125A	£25.63	1
20-001-04/160A	160A	£26.90	1

**NH00 80mm Fixing Centres**

**NH00 uR (Ultra Rapid) 690 / 700V** **Box Qty 3**

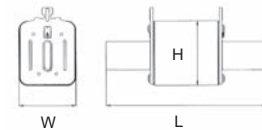


Manufactured by Siba  
Dimensions: W 29.5 / H 39 / L 105

Part Number	Description	Price	Per
20-412-20/35A	35A	£35.53	1
20-412-20/50A	50A	£35.53	1
20-412-20/63A	63A	£35.53	1
20-412-20/80A	80A	£35.53	1
20-412-20/100A	100A	£43.01	1
20-412-20/125A	125A	£43.01	1
20-412-20/160A	160A	£51.15	1
20-412-20/200A	200A	£51.15	1
20-412-20/250A	250A	£61.82	1
20-412-20/315A	315A	£64.57	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 125

Part Number	Description	Price	Per
20-002-13/80A	80A	£9.41	1
20-002-13/100A	100A	£9.41	1
20-002-13/125A	125A	£10.95	1
20-002-13/160A	160A	£10.95	1
20-002-13/200A	200A	£16.19	1

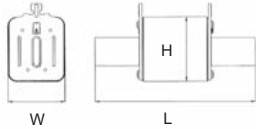


We have an extensive range of square body fuses available, we can also offer a range of DC & High Voltage fuses (up to 36KV). Please contact sales for details.



**NH0 aM (Motor Rated) 660 / 690V**

**Box Qty 3**



**Manufactured by Siba**

With Combi indicator

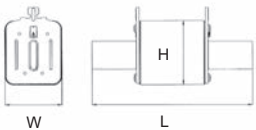
Dimensions: W 29 / H 42 / L 125

Part Number	Description	Price	Per
20-210-08/125A	125A	£15.95	1
20-210-08/160A	160A	£16.06	1

**NH Size 1 Blade Type Fuses**

**NH1 gL (General Line) 500V**

**Box Qty 3**



**Manufactured by Siba**

With Combi indicator

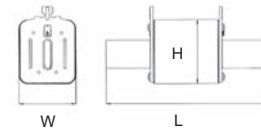
Dimensions: 50A to 160A: W 29.5 / H 46 / L 135

200A to 250A: W 42 / H 51.5 / L 135

Part Number	Description	Price	Per
20-003-13/50A	50A	£10.62	1
20-003-13/63A	63A	£10.62	1
20-003-13/80A	80A	£10.62	1
20-003-13/100A	100A	£10.62	1
20-003-13/125A	125A	£10.62	1
20-003-13/160A	160A	£10.62	1
20-003-13/200A	200A	£11.06	1
20-003-13/224A	224A	£11.06	1
20-003-13/250A	250A	£11.06	1

**NH1 aM (Motor Rated) 660 / 690V**

**Box Qty 3**



**Manufactured by Siba**

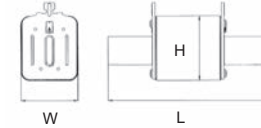
With Combi indicator / Dimensions: W 29 / H 42 / L 135

Dimensions: 200A + W 42 / H 51.5 / L 150

Part Number	Description	Price	Per
20-211-08/63A	63A	£14.91	1
20-211-08/80A	80A	£14.91	1
20-211-08/100A	100A	£14.91	1
20-211-08/125A	125A	£15.95	1
20-211-08/160A	160A	£15.95	1
20-211-08/200A	200A	£16.78	1
20-211-08/250A	250A	£18.43	1

**NH1 uR (Ultra Rapid) 500V**

**Box Qty 3**



**Manufactured by Siba**

With Combi indicator

Dimensions: W 29 / H 42 / L 135

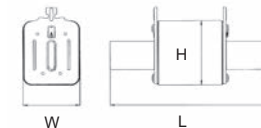
Dimensions: 200A + W 42 / H 51.5 / L 135

Part Number	Description	Price	Per
20-003-04/125A	125A	£54.23	1
20-003-04/160A	160A	£59.13	1
20-003-04/200A	200A	£59.13	1
20-003-04/250A	250A	£65.01	1
20-003-04/400A	400A	£94.55	1

**NH Size 2 Blade Type Fuses**

**NH2 gL (General Line) 500V**

**Box Qty 3**



**Manufactured by Siba**

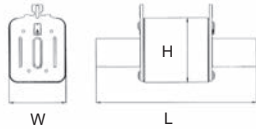
With Combi indicator / Dimensions: W 53 / H 59 / L 150

Part Number	Description	Price	Per
20-004-13/100A	100A	£13.53	1
20-004-13/125A	125A	£13.53	1
20-004-13/160A	160A	£13.53	1
20-004-13/200A	200A	£13.53	1
20-004-13/250A	250A	£13.53	1
20-004-13/315A	315A	£17.88	1
20-004-13/355A	355A	£17.88	1
20-004-13/400A	400A	£17.88	1



**NH2 aM (Motor Rated) 660 / 690V**

**Box Qty 3**



Manufactured by Siba

With Combi indicator / Dimensions: W 53 / H 59 / L 150

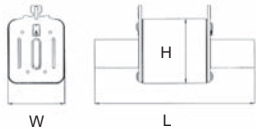
Part Number	Description	Price	Per
20-212-08/250A	250A	£19.25	1
20-212-08/315A	315A	£24.48	1
20-212-08/355A	355A	£24.64	1
20-212-08/400A	400A	£24.75	1

**NB:** An Ultra Rapid version is also available

**NH Size 3 Blade Type Fuses**

**NH3 gL (General Line) 500V**

**Box Qty 3**



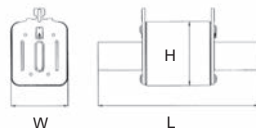
Manufactured by Siba

With Combi indicator / Dimensions: W 65 / H 73.5 / L 150

Part Number	Description	Price	Per
20-005-13/500A	500A	£37.29	1
20-005-13/630A	630A	£37.29	1

**NH3 aM (Motor Rated) 660 / 690V**

**Box Qty 3**



Manufactured by Siba

With Combi indicator

Dimensions: W 75 / H 75 / L 150

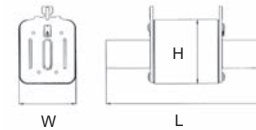
Part Number	Description	Price	Per
20-213-08/500A	500A	£63.14	1
20-213-08/630A	630A	£63.14	1

**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 200

Part Number	Description	Price	Per
20-006-13/800A	800A	£114.95	1

**NH Blade Type Fuse Holders**

**Ceramic Fuse Base**



Manufactured by Siba

Screw Mounting

Part Number	Description	Price	Per
21-001-01	Size 00 1P	£15.84	1
21-002-04	Size 0 1P	£19.36	1
21-003-01	Size 1 1P	£32.78	1
21-004-01	Size 2 1P	£38.39	1
21-005-01	Size 3 1P	£55.83	1
21-006-01	Size 4 1P	£218.90	1

**Polyester Fuse Base**



Manufactured by Mersen

Screw & Din Rail Mounting

Part Number	Description	Price	Per
42002	Size 00 1P	£12.40	1
40502KIT	Size 00 3P	£31.35	1
42302	Size 0 1P	£21.82	1
42402	Size 1 1P	£28.83	1
42414	Size 1 3P	£102.83	1

## Separator (Size 1 & 2)

Box Qty 2



MERSEN

Manufactured by Mersen

Part Number	Description	Price	Per
44610	Size 1 & 2	£3.96	1

## NH Handle (Size 00 to Size 4)



MERSEN

Manufactured by Mersen

Part Number	Description	Price	Per
45311	Handle for NH Fuses	£34.45	1

## Separating Plate

Box Qty 2



MERSEN

Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44502	Size 00	£2.31	1
44510	Size 1 & 2	£4.18	1

## Fuse Covers

Box Qty 3



MERSEN

Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44802	Size 00	£2.97	1
44810	Size 1 & 2	£3.70	1

## Cover Shield (use with Poly Bases) Box Qty 6



MERSEN

Manufactured by Mersen

For use with polyester bases

Part Number	Description	Price	Per
44702	Size 00	£2.04	1
44708	Size 1	£3.52	1

## Fuse Disconnect

### NH Fuse Load Switches



Jung  
POLYMERIT

MERSEN

Manufactured by Albrecht Jung and Mersen

Part Number	Description	Price	Per
DTL160KIT	NH00 + Shrouds	£72.50	1
DTL250KIT	NH1 + Shrouds	£176.66	1
DTL400KIT	NH2 + Shrouds	£311.15	1
DTL630KIT	NH3 + Shrouds	£333.60	1

## Fork Lift Truck Fuse 60mm

### 60mm Enclosed 80V Fork Lift Truck Fuse Box Qty 20



SIBA  
SICHERUNGEN/FUSES

Manufactured by Siba

Part Number	Description	Price	Per
90-058-05/35A	35A	£3.25	1
90-058-05/50A	50A	£3.25	1
90-058-05/63A	63A	£3.25	1
90-058-05/80A	80A	£3.25	1
90-058-05/100A	100A	£3.25	1
90-058-05/125A	125A	£3.25	1
90-058-05/160A	160A	£3.25	1
90-058-05/175A	175A	£3.25	1
90-058-05/200A	200A	£3.25	1
90-058-05/225A	225A	£3.25	1
90-058-05/250A	250A	£3.25	1
90-058-05/275A	275A	£3.25	1
90-058-05/300A	300A	£3.25	1
90-058-05/325A	325A	£3.25	1
90-058-05/355A	355A	£3.25	1
90-058-05/375A	375A	£3.25	1
90-058-05/400A	400A	£3.25	1
90-058-05/425A	425A	£3.25	1
90-058-05/500A	500A	£3.25	1



## American Fuses

### Midget Fuses

ATDR Class CC

Box Qty 10



**MERSEN**

Manufactured by Mersen

Time Delay  
10.3 x 38mm  
200kA IR

Part Number	Description	Price	Per
ATDR1	1A	£13.76	1
ATDR2	2A	£13.76	1
ATDR3	3A	£13.76	1
ATDR4	4A	£13.76	1
ATDR5	5A	£13.76	1
ATDR6	6A	£14.76	1
ATDR10	10A	£13.76	1
ATDR15	15A	£13.76	1
ATDR20	20A	£14.18	1
ATDR25	25A	£14.75	1
ATDR30	30A	£13.76	1

NB: Other values available on request

ATM

Box Qty 10



**MERSEN**

Manufactured by Mersen

Fast Acting  
10.3 x 38mm  
600V AC, 500V DC

Part Number	Description	Price	Per
ATM1/2	1/2A	£8.56	1
ATM1	1A	£8.11	1
ATM2	2A	£8.11	1
ATM3	3A	£8.11	1
ATM4	4A	£8.11	1
ATM5	5A	£8.11	1
ATM6	6A	£7.67	1
ATM10	10A	£8.11	1
ATM15	15A	£8.11	1
ATM20	20A	£7.97	1
ATM30	30A	£7.97	1

NB: Other values available on request

ATMR Class CC

Box Qty 10



**MERSEN**

Manufactured by Mersen

10.3 x 38mm  
600V AC 200kA IR

Part Number	Description	Price	Per
ATMR1/4	1/4A	£11.18	1
ATMR1/2	1/2A	£8.90	1
ATMR1	1A	£8.51	1
ATMR2	2A	£8.51	1
ATMR3	3A	£8.51	1
ATMR5	5A	£8.51	1
ATMR6	6A	£8.90	1
ATMR8	8A	£9.10	1
ATMR10	10A	£8.51	1
ATMR12	12A	£8.66	1
ATMR15	15A	£8.51	1
ATMR20	20A	£8.51	1
ATMR25	25A	£9.10	1
ATMR30	30A	£8.51	1

NB: Other values available on request

ATQ

Box Qty 10



**MERSEN**

Manufactured by Mersen

Time Delay  
10.3 x 38mm  
500V AC

Part Number	Description	Price	Per
ATQ1/2	1/2A	£6.60	1
ATQ1	1A	£6.34	1
ATQ2	2A	£6.34	1
ATQ3	3A	£6.34	1
ATQ5	5A	£6.34	1
ATQ6	6A	£6.34	1
ATQ10	10A	£6.34	1
ATQ15	15A	£6.34	1
ATQ20	20A	£6.34	1
ATQ25	25A	£6.34	1
ATQ30	30A	£6.34	1

NB: Other values available on request

## ATQR Class CC

Box Qty 10



MERSEN

Manufactured by Mersen  
Time Delay  
10.3 x 38mm 200kA IR

Part Number	Description	Price	Per
ATQR1	1A	£13.00	1
ATQR2	2A	£13.00	1
ATQR3	3A	£13.00	1
ATQR4	4A	£13.00	1
ATQR5	5A	£13.00	1
ATQR10	10A	£13.00	1
ATQR20	20A	£13.00	1
ATQR25	25A	£13.00	1

**NB:** Other values available on request

## AG Class G

Box Qty 10



MERSEN

Manufactured by Mersen  
480V AC / 100kA IR

Part Number	Description	Price	Per
AG15	15A	£11.27	1
AG20	20A	£12.02	1
AG30	30A	£15.74	1

Other values available on request

## TRM

Box Qty 10



MERSEN

Manufactured by Mersen  
Time Delay / 10.3 x 38mm / 250V AC

Part Number	Description	Price	Per
TRM1	1A	£4.50	1
TRM2	2A	£4.10	1
TRM5	5A	£4.10	1
TRM6	6A	£4.67	1
TRM10	10A	£4.10	1
TRM12	12A	£4.67	1
TRM15	15A	£4.10	1
TRM20	20A	£4.33	1
TRM30	30A	£4.33	1

**NB:** Other values available on request

## Power Fuses

### AJT Class J

Box Qty 10



MERSEN

Manufactured by Mersen  
Time Delay / 600V AC / 200kA IR

Part Number	Description	Price	Per
AJT10	10A	£16.15	1
AJT15	15A	£16.15	1
AJT20	20A	£16.15	1
AJT30	30A	£16.15	1
AJT50	50A	£27.44	1
AJT100	100A	£56.76	1
AJT200	200A	£113.53	1

**NB:** Other values available on request

### ① 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

**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	660V
<b>BS88 Bolted Type</b>						
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
<b>BS88 Compact Dimension Type</b>						
E1	SLE1	20	10	N/A		SS
F1	SLF1	32	10	N/A		NS
F2	SLF2	63	10	N/A		MES

**Comparison Chart for Boltin Fuse Holders**

Lawson Reference	Bussmann Hawker	GEC Alsthom	Bill	MEM	Dorman Smith	To Fit Fuse
LBI20FC/FCBK	32NF CM32FC	RS20H		20MFB	32NNF	NIT
LBI20FC/BCBK	32NFBS	RS20PH	-	20MFD	32NNFB	NIT
LBI20BC/BCBK	32NBS	RS20P		20MFC	32NNBS	NIT
LBI32FC/FCBK	32AF CM32F	RS32H		32MFB	2AF	GTIA/TIA
LBI32FC/BCBK	32AFBS	RS32PH	-	32MFD	32AFBS	GTIA/TIA
LBI32BC/BCBK	32ABS	RS32P		32MFC	32ABS	GTIA/TIA
LBI63FC/FCBK	63BF CM63F	RS63H		63MFB	63BF	TIS
LBI63FC/BCBK	63BFBS	RS63PH	-	63MFD	63BFBS	TIS
LBI63BC/BCBK	63BBS	RS63P		63MFC	63BBS	TIS
LBI100FC/FCBK	100CF CM100F	RS100H	V100FF	100MF	100CF	TCP
LBI100FC/BCBK	100CFBS	RS100PH	V100FB	100CFB	100CFBS	TCP
LBI100BC/BCBK	100CBS	RS100P	V100BB	100MFC	100CBS	TCP
LBI200FC/FCBK	200DF	RS200H	V200FF	200MFB	200DF	TF
LBI200FC/BCBK	200DFBS	RS200PH	V200BF	200MFD	200DFBS	TF
LBI200BC/BCBK	200DBS	RS200P	V200BB	200MFC	200DBS	TF

**Comparison Chart for Clipfit Fuse Holders**

Lawson Reference	Bussmann Hawker	GEC Alsthom	Bill	To Fit Fuse
LCF32FC/FCBK	32NNSF	SC32H-D	V32FF	NS
LCF32FC/BBCBK	-	SC32BH	-	NS
LCF32FC/BCBK	32NNSFBS	-	V32FB	NS
LCF32BC/BCBK	32NNBSBS	SC32P	-	NS
LCF32FC/FCWH	32NNSF/W	SC32H-D WHITE	V32FFW	NS
LCF32FC/BBCWH	-	-	-	NS
LCF32FC/BCWH	32NNSFBS/W	-	V32FBW	NS
LCF32BC/BCWH	32NNBSBS/W	SC32PWHITE	-	NS
LCF63FC/FCBK	63ENSF	SC63H-D	V63FF	MES
LCF63FC/BBCBK	-	SC63BH	-	MES
LCF63FC/BCBK	63ENSFBS	-	V63FB	MES
LCF63BC/BCBK	63ENSBS	SC63P	-	MES
LCFC/FCWH	63ENSF/W	SC63H-D WHITE	V63FFW	MES
LCF63FC/BBCWH	-	-	-	MES
LCF63FC/BCWH	63ENSFBS/W	-	V63FBW	MES
LCF63BC/BCWH	63ENBSBS/W	-	-	MES

**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
<b>Off Set Tags</b>	-	-	-	-	-	-	-	-
44.5mm	2-32A	A1	50-085-01 Page 111 Box Qty 10	NIT	NIT	NITD	SA2	F21
73mm	2-32A	A2	50-001-01 Page 111 Box Qty 10	TIA	TIA	AAO	SB3	HO7
73mm	32-63A	A3	50-002-01 Page 111 Box Qty 10	TIS	TIS	BAO	SB4	KO7
94mm	80-100A	A4	50-003-01 Page 112 Box Qty 10	TCP	TCP	CEO	SD5	L14
94mm	125-200A	-	50-004-01 Page 112 Box Qty 3	TFP	TFP	DEO	SD6	M14
<b>Central Tags</b>	-	-	-	-	-	-	-	-
97mm	40-63A	-	50-006-01 Page 112 Box Qty 10	TB	TB	AC	SE4	KO8
111mm	6-63A	B1	50-007-01 Page 113 Box Qty 1	TBC	TBC	AD/BD	SF5	
111mm	80-100A	B1	50-008-01 Page 113 Box Qty 1	TC	TC	CD	SF5	LO9
111mm	125-200A	B2	50-009-01 Page 113 Box Qty 3	TF	TF	DD	SF6	MO9
111mm	250-315A	B3	50-010-01 Page 113 Box Qty 3	TKF	TKF	ED	SF7	NO9
133mm	250-315A	C1	50-011-01 Page 113 Box Qty 3	TKM	TKM	EFS	SG7	N11
111mm	355-400A	B4	50-110-01 Page 113 Box Qty 3	TMF	TMF	ED	SF8	PO9
133 / 184mm	355-400A	C1	50-039-01 Page 114 Box Qty 3	TM	TM	EF	SH8	P11
134 / 184mm	450-630A	C2	50-040-01 Page 114 Box Qty 1	TTM	TTM	FF	SH9	R11
165 / 229mm	450-630A	-	-	TT	TT	FG	SY9	R12
133 / 184mm	670-800A	C3	50-041-01 Page 114 Box Qty 1	TLM	TLM	GF	SH10	S11
165 / 229mm	670-800A	-	-	TLT	TLT	GG	SY10	S12

Lamp Type	Lamp Data		Permissible number of lamps per circuit (230V, 50Hz) Contactor type EUC:				Capacitor Load in uF	
	Watt	In A	20A	25A	40A	63A		
Incandescent lamps	60	0.26	21	25	54	83		
	100	0.43	13	15	32	50		
	200	0.87	7	7	16	25		
	300	1.30	4	5	11	16		
	500	2.17	3	3	6	10		
	1000	4.35	1	1	3	5		
Fluorescent lamps, p.f. uncorrected & series p.f. correction	15	0.33	25	30	100	155		
	20	0.37	22	26	85	135		
	40	0.43	17	20	65	105		
	58	0.67	10	12	40	65		
	65	0.67	10	12	40	65		
	115	1.5	4	5	18	28		
140	1.5	4	5	18	28			
Lead-lag circuit	2 x 20	2 x 0.13	2 x 22	2 x 26	2 x 85	20 x 140		
	2 x 40	2 x 0.22	2 x 17	2 x 20	2 x 65	2 x 105		
	2 x 58	2 x 0.32	2 x 10	2 x 12	2 x 40	2 x 65		
	2 x 65	2 x 0.34	2 x 10	2 x 12	2 x 40	2 x 65		
	2 x 115	2 x 0.65	2 x 4	2 x 5	2 x 18	2 x 28		
	2 x 140	2 x 0.75	2 x 4	2 x 5	2 x 18	2 x 28		
	15	0.11	6	8	16	67	4.5	
	20	0.13	6	8	16	67	4.5	
	40	0.22	6	8	16	67	4.5	
	58	0.32	4	5	10	43	7	
65	0.34	4	5	10	43	7		
115	0.65	1	2	4	17	18		
140	0.75	1	2	4	17	18		
High-pressure mercury-vapour lamps p.f. uncorrected	50	0.61	12	14	36	50		
	80	0.8	7	10	27	38		
	125	1.15	5	7	19	26		
	250	2.15	3	4	10	14		
	400	3.25	1	2	7	10		
	700	5.40	-	1	4	6		
	1000	7.5	-	1	3	4		
	2000 / 400V	8	-	1	3	4		
	Parallel p.f. correction	50	0.28	4	5	10	43	7
		80	0.41	3	4	8	37	8
125		0.65	2	3	6	26	10	
250		1.22	1	2	3	15	18	
400		1.95	-	1	3	10	25	
700		3.45	-	-	1	5	45	
1000		4.8	-	-	1	4	60	
2000 / 400V		5.45	-	1	2	3	35	
Lamps with electronic ballast units (EVG)	EVG for Watt		Permissible number of electronic ballast units per circuit (230V, 50 Hz)					
	1 x 18 -		15	24	55	76		
	2 x 18 -		8	18	34	48		
	1 x 36 -		12	16	34	47		
	2 x 36 -		7	11	20	29		
	1 x 58 -		11	14	32	46		
	2 x 58 -		6	8	17	24		

Lamp Type	Lamp Data		Permissible number of lamps per circuit (230V, 50Hz) Contactor type EUC:				Capacitor Load in uF	
	Watt	In A	20A	25A	40A	63A		
Halogen metal-vapour lamps, p.f. uncorrected	35	0.53	-	10	28	38		
	70	1	-	5	14	20		
	150	1.8	-	3	8	11		
	250	3	-	2	5	7		
	400	3.5	-	1	4	6		
	1000	9.5	-	-	1	2		
	2000	16.5	-	-	1	1		
	2000 / 3500 / 400V	10.5	-	-	2	2		
		18	-	-	1	1		
		-	-	-	-	-		
Parallel p.f. correction	35	0.25	-	5	11	30	6	
	70	0.45	-	3	5	18	12	
	150	0.75	-	1	3	9	20	
	250	1.5	-	1	2	7	33	
	400	2.5	-	1	2	6	35	
	1000	5.8	-	-	-	2	95	
	2000	11.5	-	-	-	1	148	
	2000 / 3500 / 400V	6.6	-	-	1	2	58	
		11.6	-	-	-	1	100	
		-	-	-	-	-		
Low-pressure mercury-vapour lamps p.f. uncorrected	35	1.5	5	8	22	30		
	55	1.5	5	8	22	30		
	90	2.4	3	5	13	19		
	135	3.5	2	3	10	13		
	150	3.3	2	3	10	14		
	180	3.3	2	3	10	14		
	200	2.3	3	5	14	20		
	Parallel p.f. correction	35	0.31	-	1	4	15	20
		55	0.42	-	1	4	15	20
		90	0.63	-	1	3	10	30
135		0.94	-	-	2	7	45	
150		1.0	-	-	2	8	40	
180		1.16	-	-	2	8	40	
200		1.32	-	1	3	12	25	
High-pressure sodium-vapour lamps p.f. uncorrected	150	1.8	-	4	15	20		
	250	3.0	-	3	9	15		
	330	3.7	-	2	8	10		
	400	4.7	-	1	6	8		
	1000	10.3	-	-	3	4		
Parallel p.f. correction	150	0.83	-	1	3	15	20	
	250	1.5	-	1	2	9	33	
	330	2.0	-	-	2	7	40	
	400	2.4	-	-	1	6	48	
	1000	6.3	-	-	-	2	106	
Transformers for halogen low-volt lamps	Transformers for Watt		Permissible number of transformers per circuit (230V, 50 Hz)					
	20		40	52	110	174		
	50		20	24	50	80		
	75		13	16	35	54		
	100		10	12	27	43		
	150		7	9	19	29		
	200		5	6	14	23		
300		3	4	9	14			

**Switching Lamp Loads** - the above tables show the number of lamps which can be connected per circuit at 230V / 50Hz. If the specified capacitor load is exceeded, this may result in admissibly high peak inrush currents. Other factors which influence the magnitude of peak inrush currents are as follows:  
 Length & cross section of supply cables, type of electronic ballast units and the make of lamp.

All information is for guidance purposes only! ⓘ

**① 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

**① TC1-D & LC1-F Range Contactor Comparison Chart**

TC Contactors	AC3 Amps	AC3 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

**① Motor Current Selection Table**

Three Phase Motor Approximate Full Load Current at Line Voltage							
220V	240V	380V	415V	550V	Motor Rating Kw	HP	
-	-	-	-	-	0.07	1/12	
0.7	0.6	0.4	0.4	0.3	0.1	1/8	
1	0.9	0.5	0.5	0.3	0.12	1/6	
1.3	1.2	0.8	0.7	0.4	0.18	1/4	
1.6	1.5	0.9	0.9	0.6	0.25	1/3	
2.5	2.3	1.4	1.3	0.8	0.37	1/2	
3.1	2.8	1.8	1.6	1.1	0.56	3/4	
3.5	3.2	2	1.8	1.4	0.75	1	
5	4.5	2.8	2.6	1.9	1.1	1.5	
6.4	5.8	3.7	3.4	2.6	1.5	2	
9.5	8.7	5.5	5	3.5	2.2	3	
12	11	7	6.5	4.7	3	4	
15	13	8	8	6	3.7	5	
16	14	9	8	6	4	5.5	
20	19	12	11	8	5.5	7.5	
27	25	16	15	11	7.5	10	
34	32	20	18	14	9.3	12.5	
37	34	22	20	15	10	13.5	
41	37	23	22	16	11	15	
64	50	31	28	21	15	20	
67	62	39	36	26	18.5	25	
74	70	43	39	30	22	30	

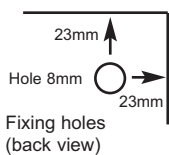
Europa Enclosures Dimensions Table - See Pages 35, 36, 37

Dimensions provided are for guidance purposes only

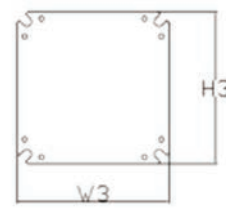
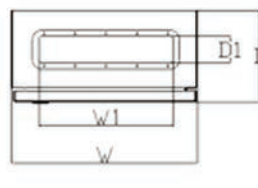
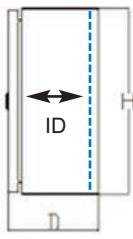
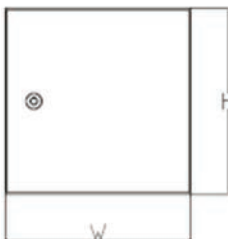
Part number	External Dimensions			Internal Depth	Gland Plate Hole		Mounting plate		Other Information (GPTB = Gland Plate Top & Bottom)
	H (mm)	W (mm)	D (mm)	ID	W1 (mm)	D1 (mm)	W3 (mm)	H3 (mm)	
STB252515	250	250	150	125	130	62	195	200	1 Lock, GPTB
STB302515	300	250	150	125	130	62	195	245	1 Lock, GPTB
STB303015	300	300	150	125	180	62	245	245	1 Lock, GPTB
STB303020	300	300	200	175	180	62	245	245	1 Lock, GPTB
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
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)

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



\* key: = back plate



# Multi Function Time Relays

**Europa:** ECMFT (see page 95) - 10 Functions Listed in **Blue**

**Relpol:** MT-TUA-17S-11-9240-7 (see page 102) - 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.

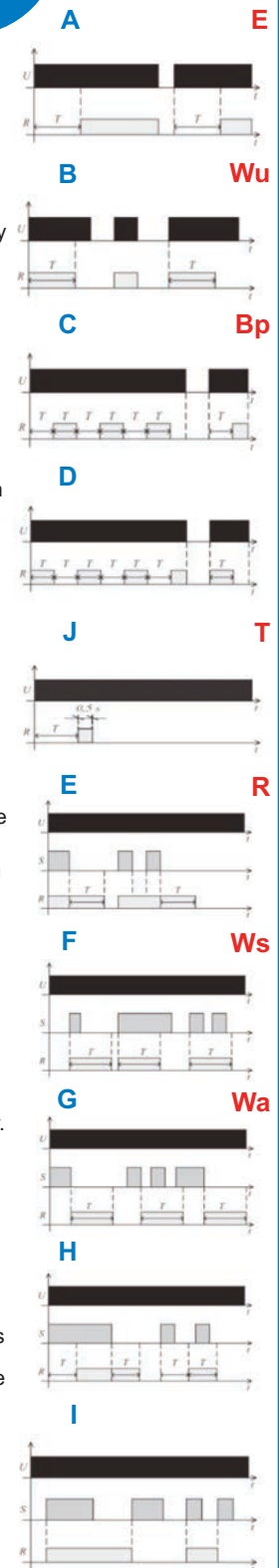
**Single shot leading edge with control contact:** The supply voltage U must be constantly applied to the time relay. After the control contact S has been closed, the operating relay R starts immediately and the set time T is being measured. After the set time T has lapsed, the operating relay R returns 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 page 25

Europa Part Number	Description	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



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 the case may be.  
**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 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, 0900 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, 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 placed at the disposal of the Customer (or someone purporting to be the same) signs the Supplier's carrier's receipt or the Supplier's despatch note or, the Goods are delivered to the Customer's carrier, as the case may be.  
3.3 Any dates quoted for delivery are 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 Customer 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 in incompatible goods or products outside the permitted tolerances stated in the Specification; or  
(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 funds) 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 includes the 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 pay any amount 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 and 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 amount due under the Contract 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 without incurring any liability to 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 268 of the Insolvency Act 1986, or (being a partnership) has any partner to whom any of the foregoing apply; or  
(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; or  
(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) (being a company) a floating 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 ceases to carry on its business, or ceases 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; or  
(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, regulations, bye laws, prohibitions or measures of any kind on the part of any 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. **GENERAL**
- 10.1 **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 clause 10.2(a).  
(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.
- 10.4 **Waiver.** A waiver 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.
- 10.5 **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 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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