



# CONTROL & AUTOMATION



## PRODUCT CATALOGUE ISSUE 4

niGLON™

# THE NEW NIGLON PRICE LIST



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# The Total Package

Based in Solihull, West Midlands, find us in our purpose built distribution facility, located just 1 mile from Jct 4 of the M42.

The company is constantly evolving its product range, which now includes the addition of over 150 products all encompassed within this dedicated Control & Automation catalogue.



## Knowledge

Our dedicated technical department is on hand to help with any questions, we have also included QR codes throughout this list. Scan the QR codes next to any product to be taken directly to the relevant data sheet from your smart phone. Datasheets can be accessed via our website [www.niglon.co.uk](http://www.niglon.co.uk)



## Service

### UK Delivery Options

Next working day delivery in all areas of mainland UK is available at a fee, please call for further information.

### Collection

No minimum order value for collection. Collect one hour after placing.

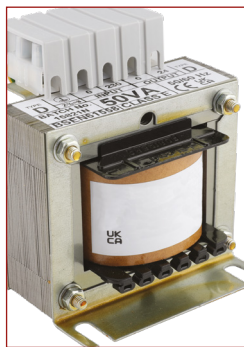


## New Products

Make sure to check out all the new products in Issue 4 - you can find them by looking out for our handy icon



Surge Protection Devices



Panel Transformers



Busbar Chambers



Compact Switch  
Disconnectors

**“ OUR VALUES ARE QUALITY,  
INNOVATION, RELIABILITY &  
CUSTOMER SERVICE ”**

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Listed in

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ASSOCIATION



# ENCLOSURES

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## Enclosure Selection Guide

When selecting an enclosure there are a number of factors that need to be considered.

### Environmental Conditions

Below shows which material is best suited for its environment:

#### Mild Steel (Painted)

Suitable Conditions	Locations
Low corrosive environments Example applications: • Motor control centres • Plant rooms • Process Machinery	• Indoor applications

#### GRP

Suitable Conditions	Locations
Highly corrosive environments Example applications: • Marine • Roadside • Chemical plant	• Indoor applications • Outdoor applications

#### 304 Stainless Steel

Suitable Conditions	Locations
Highly corrosive environments Example applications: • Food and beverage industry (Can be hosed down) • Oil/Gas • Pharmaceutical • Water & Waste water	• Indoor applications • Outdoor applications  Note - 304 stainless steel should not be used within 10km of the coast or in environments where hydrochloric acid or salt is present. 316 grade should be considered.

#### ABS (Acrylonitrile Butadiene Styrene) \*

Suitable Conditions	Locations
Corrosive environments Example applications: • Acid/Alkali resistant • Not alcohol/esters/aldehydes	• Indoor applications • Outdoor applications

\* Biocompatible and recyclable

### Electromagnetic Compatibility (EMC)

- EMC protection has never been greater due to the increased number of wirelessly connected devices.
- Electromagnetic compatibility aims to ensure that electrical items do not interfere with each other.
- Plastic enclosures offer a low level of protection against EMC, a metal enclosure should be used if reducing electrical interference is important.

### Ingress Protection

- Enclosures offer varying degrees of protection against dust and water, please see our table explaining IP categories on page 102.

## Painted Mild Steel - Includes Backplate



- BSEN 60529
- Mild steel with epoxy paint finish
- RAL7035
- IP66 with polyurethane gasket
- 2mm galvanised steel backplate fitted
- Reversible doors have 3mm bit locks
- 125° Opening door
- See accessories on page 7

Part No.	Dimensions HxWxD (mm)	Backplate HxW (mm)	Usable Depth (mm)	Locks	No. Gland Plates	Gland Plate (mm)	Weight (kg)	Qty
MS302015	300x200x150	254x154	126	1	1	117x72	4.1	1
MS302515	300x250x150	254x204	126	1	1	117x72	4.5	1
MS303015	300x300x150	254x254	126	1	1	220x82	4.9	1
MS303020	300x300x200	254x254	176	1	1	220x82	5.3	1
MS303025	300x300x250	254x254	226	1	1	220x82	5.5	1
MS403015	400x300x150	354x254	126	1	1	316x120	6.4	1
MS403020	400x300x200	354x254	176	1	1	316x120	6.7	1
MS403025	400x300x250	354x254	226	1	1	316x120	6.8	1
MS404020	400x400x200	354x354	176	1	1	316x120	6.9	1
MS503020	500x300x200	454x254	176	1	1	416x120	9.7	1
MS504020	500x400x200	454x254	176	1	1	416x120	10.5	1
MS504025	500x400x250	454x354	226	1	1	416x120	10.9	1
MS505025	500x500x250	554x554	226	1	1	416x120	11.4	1
MS604020	600x400x200	554x354	176	1	1	416x120	12.8	1
MS604030	600x400x300	554x354	276	2	1	416x120	13.3	1
MS605020	600x500x200	554x454	176	2	1	416x120	13.9	1
MS605025	600x500x250	554x454	226	2	1	416x120	14.2	1
MS606025	600x600x250	554x554	226	2	1	416x120	14.3	1
MS605030	600x500x300	554x454	276	2	1	416x120	14.4	1
MS606020	600x600x200	554x554	176	2	1	416x120	19.5	1
MS806020	800x600x200	754x554	176	2	2	316x120	26.1	1
MS806030	800x600x300	754x554	276	2	2	316x120	28.4	1
MS1006030	1000x600x300	954x554	276	2	2	416x120	36.7	1
MS1008030	1000x800x300	954x754	276	2	2	416x120	39.8	1
MS1208030	1200x800x300	1154x754	276	3	2	416x120	45.2	1
MS12010030	1200x1000x300	1154x954	276	3	2	466x120	49.2	1

## Stainless Steel - Includes Backplate



- BSEN 60529
- 304 Grade stainless steel construction
- Brushed finish
- IP65 with polyurethane gasket
- 2mm galvanised steel backplate fitted
- Reversible doors have 3mm bit locks
- See accessories on page 7

Part No.	Dimensions HxWxD (mm)	Backplate HxW (mm)	Usable Depth (mm)	Locks	Weight (kg)	Qty
SS302015	300x200x150	254x154	126	1	8.8	1
SS403020	400x300x200	354x254	176	1	11.1	1
SS404020	400x400x200	354x354	176	1	13.8	1
SS504020	500x400x200	454x354	176	1	15.9	1
SS604020	600x400x200	554x354	176	2	18.4	1
SS806030	800x600x300	754x554	276	2	31.7	1

Stainless Steel  
Plinth Sets

- 304 Grade Steel
- Brushed finish
- 4 piece assembly

Part No.	Dimensions WxDxH (mm)	Weight (kg)	Qty
SPS4020	400x200x100	7.3	1
SPS6030	600x300x100	8.6	1

Mild Steel  
Plinth Sets

- Mild Steel
- RAL 8022
- Epoxy powder paint finish
- 4 piece assembly

Part No.	Dimensions WxDxH (mm)	Weight (kg)	Qty
PPS3020	300x200x100	5.4	1
PPS4020	400x200x100	6.1	1
PPS4030	400x300x100	6.5	1
PPS6030	600x300x100	7.2	1

A4 Document Pocket  
- For Steel Enclosures

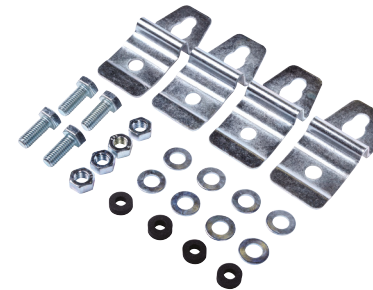
Part No.	Mounting	Qty
A4DOCW	Self Adhesive	1

## Locks &amp; Keys - For Steel Enclosures



Part No.	Description	Qty
STBK	Spare T Bit Key	1
MSKL	Mild Steel Key Lock	1
SPAK	Spare Key for MSKL	1

## Mounting Kit - For Steel Enclosures



Part No.	Material	Qty
SSWB	Stainless Steel	1 pack of 4



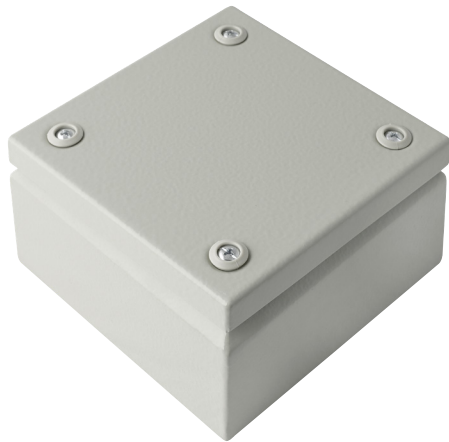
## Earth Strap - For Steel Enclosures



Part No.	Dimensions	Qty
ES22	220mm	1



## Terminal Boxes - Mild Steel



- Epoxy paint finish RAL7035
- Lid held by captive screws
- IP66 with polyurethane gasket
- Complete with backplate

Part No.	Dimensions HxWxD (mm)	Weight (kg)	Qty
TS202012	200x200x120	2.3	1
TS302012	300x200x120	3.19	1
TS303012	300x300x120	4.54	1
TS403012	400x300x120	5.79	1

## GRP - Large/Freestanding



- BSEN 60529, BSEN 62262
- GRP Construction
- RAL7035
- 105° Opening door
- IP65 with polyurethane gasket
- 3 point locking with swing handle
- Modular design - can be side by side and/or back to back
- Back plates on page 9

Part No.	Dimensions HxWxD (mm)	Weight (kg)	Qty
MX1053	1000x500x300	16.8	1
MX1073	1000x750x300	21.2	1
MX1253	1250x500x300	21.2	1
MX1273	1250x750x300	26.4	1

## Back Plates - For Large/Freestanding



- Polyester Nylon PA66
- RAL7035
- 4mm thickness

## GRP

Part No.	For Use With	Dimensions HxW (mm)	Qty
PMX105	MX1053	893x405	1
PMX107	MX1073	893x655	1
PMX125	MX1253	1143x405	1
PMX127	MX1273	1143x655	1

- Mild Steel
- Galvanised finish
- 1.2mm thickness

## Metal

Part No.	For Use With	Dimensions HxW (mm)	Qty
PMMX105	MX1053	893x405	1
PMMX107	MX1073	893x655	1
PMMX125	MX1253	1143x405	1
PMMX127	MX1273	1143x655	1

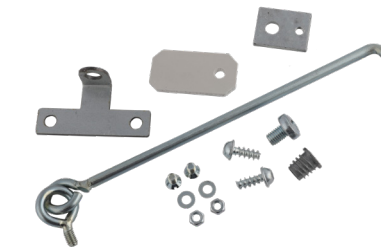
Swing handle With Key Lock -  
For Large/Freestanding

Part No.	Qty
MSHK	1

GRP Enclosure Plinth -  
For Large/Freestanding

Part No.	Dimensions WxDxH (mm)	Weight (kg)	Qty
MPS5030	500x300x60	1.79	1
MPS7530	750x300x60	2.2	1

## Door Stop 105° Opening - Large/Freestanding



Part No.	Qty
MDSO	1





## GRP - Opaque Lid



- Glass Fibre reinforced polycarbonate construction
- RAL7035
- IP66 with polyurethane gasket
- 180° Opening door with internal hinges
- Suited to extreme conditions
- Back plates on page 12
- Certification

Part No.	Dimensions HxWxD (mm)	Usable Depth (mm)	Backplate HxW (mm)	Locks	Weight (kg)	Qty
P302514	300x250x140	78	268x 213	1	2.2	1
P403020	400x300x200	138	358x 254	2	3.7	1
P404020	400x400x200	138	358x 354	2	4.6	1
P504020	500x400x200	138	458x 354	2	5.5	1
P604023	600x400x230	167	558x 354	2	7.5	1
P605023	600x500x230	167	558x 454	2	8.2	1
P806030	800x600x300	237	754x 550	2	13.1	1

## GRP - Glazed Door



- Glass Fibre reinforced polycarbonate construction
- RAL7035
- IP66 with polyurethane gasket
- 180° Opening door with internal hinges
- Suited to extreme conditions
- Back plates on page 12
- Certification

Part No.	Dimensions HxWxD (mm)	Usable Depth (mm)	Backplate HxW (mm)	Locks	Weight (kg)	Qty
PG302514	300x250x140	78	268x 213	1	2.2	1
PG403020	400x300x200	138	358x 254	2	3.7	1
PG404020	400x400x200	138	358x 354	2	4.6	1
PG504020	500x400x200	138	458x 354	2	5.5	1
PG604023	600x400x230	167	558x 354	2	7.5	1
PG605023	600x500x230	167	558x 454	2	8.2	1
PG806030	800x600x300	237	754x 550	2	13.1	1

BESPOKE  
SERVICE

- Laser engraving can produce any legend plate or label
- Shrouding cut and engraved as required
- Switches can be mounted to suit cabling
- Full or part glazing can quickly be installed
- Work can be carried out on all enclosures



## Ventilation Devices

- For GRP Enclosures



Part No.	Size	Qty
P-SVD	Small	1
P-LVD	Large	1

## Padlock Hasp - For GRP Enclosures



Part No.	Qty
P-PH	1

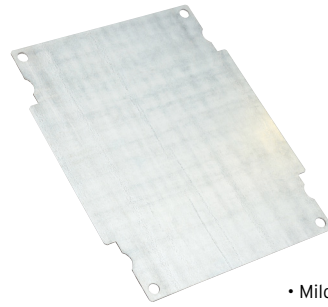
## GRP Enclosure Mounting Plates

Polyester



- Polyester Nylon PA66
- RAL7035
- 4mm thickness

Steel



- Mild Steel
- Galvanised finish
- 1.2mm thickness

Part No.	For Use With	Dimensions HxW (mm)	Qty
PBP321	P302514	268x213	1
PBP432	P403020	358x260	1
PBP442	P404020	358x360	1
PBP542	P504020	458x360	1
PBP642	P604023	558x360	1
PBP652	P605023	558x460	1
PBP852	P806030	754x556	1

Part No.	For Use With	Dimensions HxW (mm)	Qty
MBP321	P302514	268x213	1
MBP432	P403020	358x254	1
MBP442	P404020	358x354	1
MBP542	P504020	458x354	1
MBP642	P604023	558x354	1
MBP652	P605023	558x454	1
MBP863	P806030	754x550	1

## Mounting Kit - For GRP Enclosures



Part No.	Qty
P-WFK	1

Key Lock with Butterfly Handle  
- For GRP Enclosures

Part No.	Qty
P-DL	1

## Wall Bracket - For GRP Enclosures



Part No.	Description	Qty
P-WBK	Wall Bracket set of 4	1

## Polycarbonate - Opaque Lid

- Glass Fibre reinforced polycarbonate construction
- RAL7035
- IP66 with polyurethane gasket
- Lid held with captive screws
- Suited to extreme conditions
- See below for mounting plates
- Certification

Part No.	Dimensions HxWxD (mm)	Backplate HxWxD (mm)	Weight (kg)	Qty
PBOX02	180x135x129	142x97	0.44	1
PBOX06	270x180x171	220x130	1.18	1
PBOX07	270x270x171	220x220	1.64	1
PBOX08	270x360x171	220x310	1.98	1
PBOX09	270x360x201	220x310	2.05	1



## Polycarbonate - Transparent Lid

- Glass Fibre reinforced polycarbonate construction
- RAL7035
- IP66 with polyurethane gasket
- Lid held with captive screws
- Suited to extreme conditions
- See below for mounting plates
- Certification

Part No.	Dimensions HxWxD (mm)	Backplate HxWxD (mm)	Weight (kg)	Qty
PBOXT03	180x180x129	142x142	0.5	1
PBOXT04	270x135x129	220x97	0.58	1
PBOXT05	270x180x141	220x130	1.18	1
PBOXT06	270x180x171	220x130	1.18	1
PBOXT07	270x270x171	220x220	1.64	1
PBOXT08	270x360x171	220x310	1.98	1
PBOXT09	270x360x201	220x310	2.05	1
PBOXT11	360x360x171	310x310	2.42	1
PBOXT13	540x270x171	490x220	2.96	1



## Mild Steel Enclosure Mounting Plates - For Polycarbonate Enclosures

- Mild Steel
- Galvanised
- 1.2mm thickness

Part No.	For Use With	Dimensions HxW (mm)	Qty
PXBP02	PBOX02	142x97	1
PXBP04	PBOXT04	234x96	1
PXBP06	PBOX06 / PBOXT05 / PBOXT06	220x130	1
PXBP07	PBOX07 / PBOXT07	220x220	1
PXBP08	PBOX08 / PBOXT09 / PBOXT08 / PBOXT09	220x310	1
PXBP11	PBOXT11	310x310	1
PXBP13	PBOXT13	490x220	1



## ABS Plastic - Opaque Door, Includes Backplate



- RAL7035
- IP65
- IK10
- 1.2mm Metal backplate fitted
- Wall brackets included

Part No.	Dimensions HxWxD (mm)	Backplate HxW (mm)	Usable Depth (mm)	Locks	Weight (kg)	Qty
PE282113	280x210x130	190x120	108	1	1.14	1
PE352515	350x250x150	300x190	128	1	1.94	1
PE403019	400x300x195	350x240	165	2	3.05	1
PE504017	500x400x175	450x340	145	2	4.32	1
PE604020	600x400x200	545x340	170	2	5.55	1
PE605022	600x500x220	530x445	185	2	7.28	1
PE705024	700x500x245	650x450	205	2	9.16	1
PE806026	800x600x260	725x540	225	3	12.57	1

## ABS Plastic - Transparent Door, Includes Backplate



- RAL7035
- IP65
- IK10
- 1.2mm Metal backplate fitted
- Wall brackets included

Part No.	Dimensions HxWxD (mm)	Backplate HxW (mm)	Usable Depth (mm)	Locks	Weight (kg)	Qty
PE282113C	280x210x130	190x120	108	1	1.14	1
PE352515C	350x250x150	300x190	128	1	1.94	1
PE403019C	400x300x195	350x240	165	2	3.05	1
PE504017C	500x400x175	450x340	145	2	4.32	1
PE604020C	600x400x200	545x340	170	2	5.55	1
PE605022C	600x500x220	530x445	185	2	7.28	1
PE806026C	800x600x260	725x540	225	3	12.57	1

## Key &amp; Lock - For ABS Plastic Enclosures



Part No.	Qty
PEKL	1



## ABS Plastic Control Boxes - Opaque Low Lid



- RAL7035
- IP67
- Smooth lid and sides
- Easily machinable
- Metal backplate available page 17

Part No.	Dimensions LxWxD (mm)	Backplate	Weight (kg)	Qty
JBLL191408	190x145x80	MP1712	0.38	1
JBLL252009	250x200x90	MP2217	0.69	1
JBLL312313	310x230x130	MP2821	1.11	1
JBLL403013	400x300x130	MP3727	1.68	1

## ABS Plastic Control Boxes - Opaque High Lid



- RAL7035
- IP67
- Smooth lid and sides
- Easily machinable
- Metal backplate available page 17

Part No.	Dimensions LxWxD (mm)	Backplate	Weight (kg)	Qty
JBHL191414	190x145x140	MP1712	0.89	1
JBHL252016	250x200x160	MP2217	1.49	1
JBHL312318	310x230x180	MP2821	1.49	1

## ABS Plastic Control Boxes - Transparent Low Lid



- RAL7035
- IP67
- Smooth lid and sides
- Easily machinable
- Metal backplate available page 17

Part No.	Dimensions LxWxD (mm)	Backplate	Weight (kg)	Qty
JBLL191408C	190x145x80	MP1712	0.38	1
JBLL252009C	250x200x90	MP2217	0.69	1

## ABS Plastic Control Boxes - Transparent High Lid



- RAL7035
- IP67
- Smooth lid and sides
- Easily machinable
- Metal backplate available page 17

Part No.	Dimensions LxWxD (mm)	Backplate	Weight (kg)	Qty
JBHL191416C	190x145x160	MP1712	0.89	1
JBHL252016C	250x200x160	MP2217	1.49	1

Galvanised Steel Mounting Plates -  
For ABS Plastic Control Boxes

- Galvanised
- 1mm thickness
- Cut for optimum surface area

Part No.	Dimensions HxW (mm)	Qty
MP1712	172x127mm	1
MP2217	228x179mm	1
MP2821	289x210mm	1
MP3727	373x275mm	1



# BESPOKE SERVICE



More information

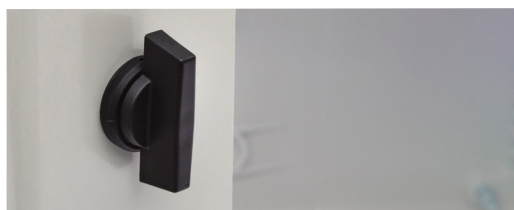
## TO HELP CUSTOMISE YOUR BOARD, WE OFFER:

### Laser Cutting

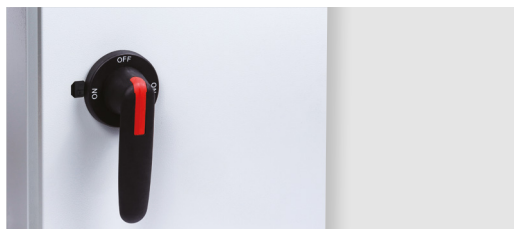


Allows shrouding to be cut, legend plates to be made, labels and engraving to be applied to the enclosure.

### Door & lock changes available

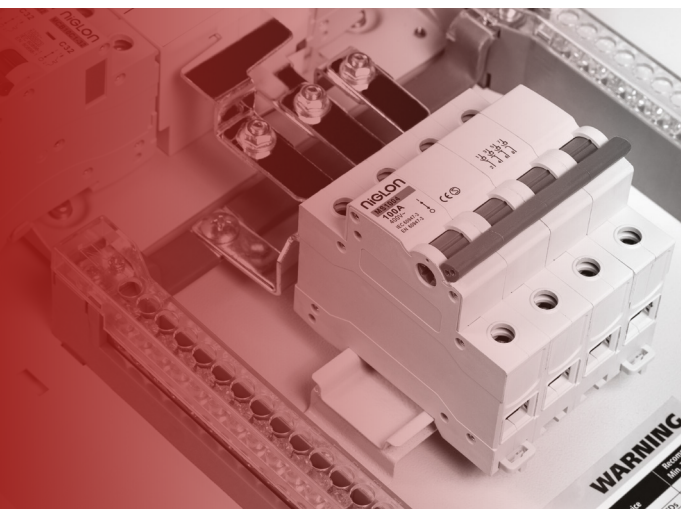


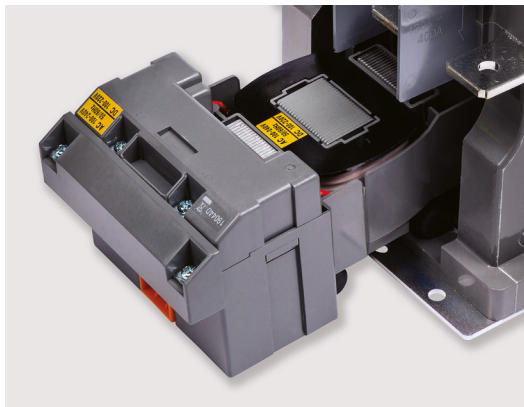
### Enclosure sizes & switch mounting options



## MCCB Panel Boards

- Extensive range of LV switchboards & MCCB Panels
- Sub and main power distribution
- Up to 800A rated
- Up to 12 way TPN outgoing
- Combine single and three phase
- Optional surge protection
- Optional metering





## MOTOR **CONTROL** GEAR

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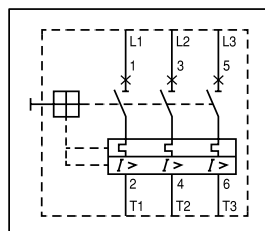


## Manual Motor Starters

- BS EN 60947-4
- Compact device for motor control
- Phase failure and single phase protection
- Trip Class 10
- Front and side mount auxiliaries
- Coupler to connect to mini and standard contactors



Part No.	Range (A)	Qty
<b>MMS0.16</b>	0.1 - 0.16	1
<b>MMS0.25</b>	0.16 - 0.25	1
<b>MMS0.40</b>	0.25 - 0.4	1
<b>MMS0.63</b>	0.4 - 0.63	1
<b>MMS1.0</b>	0.63 - 1.0	1
<b>MMS1.6</b>	1.0 - 1.6	1
<b>MMS2.5</b>	1.6 - 2.5	1
<b>MMS4.0</b>	2.5 - 4	1
<b>MMS6.0</b>	4 - 6	1
<b>MMS10</b>	6 - 10	1
<b>MMS14</b>	9 - 14	1
<b>MMS18</b>	13 - 18	1
<b>MMS23</b>	17 - 23	1
<b>MMS25</b>	20 - 25	1
<b>MMS32</b>	24 - 32	1



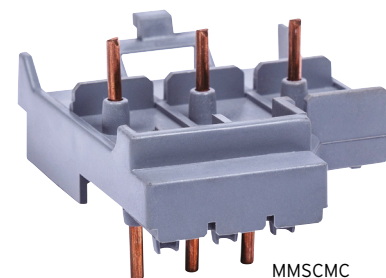
## ABS Enclosure for Manual Motor Starters



- BS EN 60529
- IP65

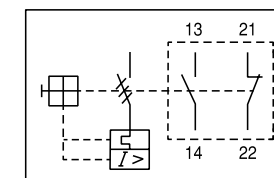
Part No.	Dimensions HxWxD (mm)	Qty
<b>MMSENC</b>	145x80.6x97.3	1

## Manual Motor Starter Accessories



- BS EN 60947-4

Part No.	Description	Qty
<b>MMSMC</b>	Coupler MMS to mini contactor	1
<b>MMSCSC</b>	Coupler MMS to standard contactor	1
<b>AUX1/MMS</b>	Front mounting auxiliary contact 1NO/1NC	1
<b>AUX2/MMS</b>	Side mounting auxiliary contact 1NO/1NC	1



Wiring Diagram for AUX1/MMS

## Application Categories

To BS EN-60947-4-1 &amp; BS EN-60947-5-1

Application Category	Typical Application
<b>AC-1</b>	Resistive or slightly inductive loads
<b>AC-3</b>	Switching motors
<b>AC-5a</b>	Discharge lamps
<b>AC-5b</b>	Electric bulbs
<b>AC-6a</b>	Transformers
<b>AC-6b</b>	Capacitor banks
<b>AC-7a</b>	Slightly inductive loads in household appliances
<b>AC-7b</b>	Motors in household appliances
<b>AC-8a</b>	Refrigerant compressor motors with manual overload resetting
<b>AC-8b</b>	Refrigerant compressor motors with automatic overload resetting
<b>AC-14</b>	Control of electromagnetic loads <72 VA
<b>AC-15</b>	Control of electromagnetic loads >72 VA
<b>AC-21</b>	Switching of resistive loads
<b>AC-23</b>	Switching of motor loads or inductive loads
<b>DC-1</b>	Resistive or slightly inductive loads
<b>DC-6</b>	Control of resistive loads with opto-isolators
<b>DC-13</b>	Control of DC electromagnets

## Contactor Ratings

To BS EN-60947-4-1 &amp; BS EN-60947-5-1

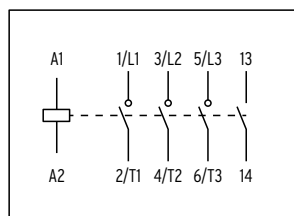
AC3 @ 415V (A)	AC3 @ 415V (kW)	AC1 (A)
12	5.5	25
18	7.5	40
22	11	40
32	15	50
40	18.5	60
50	22	80
65	30	100
75	37	110
85	45	135
100	55	150
150	75	200
185	90	230
225	132	250
330	200	420
400	250	450
630	400	750

## Mini 3 Pole Contactors - AC Coil, 12A Rated



- BS EN 60947-4
- For switching up to 5.5kW 415V motors
- Front mount auxiliaries available

Part No.	AC Coil (V)	AC3 Motor Rating (A)	Qty
4MC1224	24	12	1
4MC12110	110	12	1
4MC12230	230	12	1

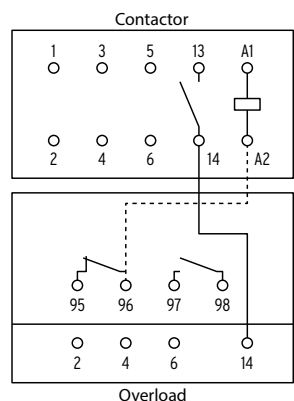


## Thermal Overload Relays - Mini Contactors

- BS EN60947-4
- Differential current & phase failure protection
- Through connection for coil and NC contacts
- Trip Class 10
- 1NO & 1NC auxiliaries



Part No.	Range (A)	Qty
ORMC0.16	0.1 - 0.16	1
ORMC0.25	0.16 - 0.25	1
ORMC0.40	0.25 - 0.4	1
ORMC0.63	0.4 - 0.63	1
ORMC1.0	0.63 - 1.0	1
ORMC1.6	1.0 - 1.6	1
ORMC2.5	1.6 - 2.5	1
ORMC4	2.5 - 4	1
ORMC6	4 - 6	1
ORMC8	5 - 8	1
ORMC10	6 - 10	1
ORMC13	9 - 13	1



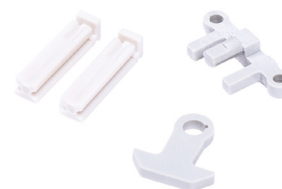
## Mini Contactor Accessories - Front Mounting Auxiliary Contacts



- BS EN60947-4

Part No.	Contacts	Qty
AUX0/2FM-MINI	2NC	1
AUX1/1FM-MINI	1NO/1NC	1
AUX0/4FM-MINI	4NC	1
AUX1/3FM-MINI	1NO/3NC	1
AUX2/2FM-MINI	2NO/2NC	1
AUX3/1FM-MINI	3NO/1NC	1
AUX4/0FM-MINI	4NO	1

## Mechanical Interlock - Mini Contactors

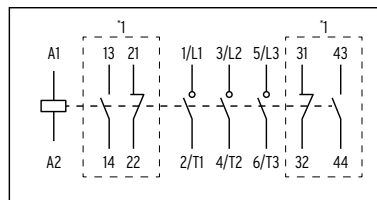


Part No.	Qty
MCMI	1

## Standard 3 Pole Contactors - AC Coil



- BS EN 60947-4
- For switching 415V motors
- Fitted with Auxiliary contacts



\*1 - Optional auxiliary contact unit

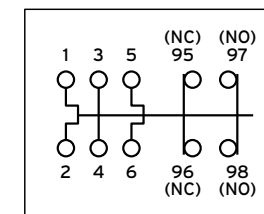
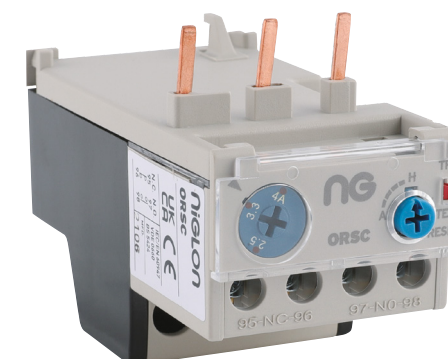
Additional auxiliary contact units available page 28

Part No.	AC Coil (V)	AC3 Motor Rating (A)	Integral Auxiliary Contact	Dimensions HxWxD (mm)	Qty
3SC1224	24	12	1NO/1NC	87x67x80	1
3SC12110	110	12	1NO/1NC	87x67x80	1
3SC12240	240	12	1NO/1NC	87x67x80	1
3SC12415	415	12	1NO/1NC	87x67x80	1
3SC1824	24	18	1NO/1NC	87x67x80	1
3SC18110	110	18	1NO/1NC	87x67x80	1
3SC18240	240	18	1NO/1NC	87x67x80	1
3SC18415	415	18	1NO/1NC	87x67x80	1
3SC2224	24	22	1NO/1NC	87x67x80	1
3SC22110	110	22	1NO/1NC	87x67x80	1
3SC22240	240	22	1NO/1NC	87x67x80	1
3SC22415	415	22	1NO/1NC	87x67x80	1
3SC3224	24	32	2NO/2NC	82x68x95	1
3SC32110	110	32	2NO/2NC	82x68x95	1
3SC32240	240	32	2NO/2NC	82x68x95	1
3SC32415	415	32	2NO/2NC	82x68x95	1
3SC4024	24	40	2NO/2NC	82x68x95	1
3SC40110	110	40	2NO/2NC	82x68x95	1
3SC40240	240	40	2NO/2NC	82x68x95	1
3SC40415	415	40	2NO/2NC	82x68x95	1
3SC50240	240	50	2NO/2NC	124x94x118	1
3SC65240	240	65	2NO/2NC	124x94x118	1
3SC75240	240	75	2NO/2NC	124x94x118	1
3SC85240	240	85	2NO/2NC	124x94x118	1

## Thermal Overload Relays - Standard 3 Pole Contactors

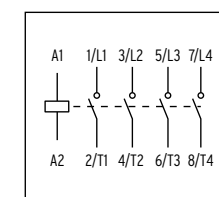
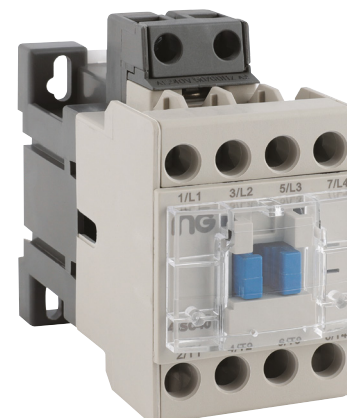


Part No.	AC3 Motor Rating (A)	Qty
ORSC0.16	0.1 - 0.16	1
ORSC0.25	0.16 - 0.25	1
ORSC0.4	0.25 - 0.4	1
ORSC0.63	0.4 - 0.63	1
ORSC1.0	0.63 - 1.0	1
ORSC1.6	1.0 - 1.6	1
ORSC2.5	1.6 - 2.5	1
ORSC4	2.5 - 4	1
ORSC6	4 - 6	1
ORSC8	5 - 8	1
ORSC9	6 - 9	1
ORSC10	7 - 10	1
ORSC13	9 - 13	1
ORSC18	12 - 18	1
ORSC22	16 - 22	1
ORSC32	22 - 32	1
ORSC40	28 - 40	1



- BS EN 60947-4
- Differential current & phase failure protection
- Trip Class 10
- 1NO & 1NC auxiliaries

## Standard 4 Pole Contactors - AC Coil



Optional auxiliary contact units available page 28

Part No.	AC1 Thermal Rating (A)	Max LED Switching (W)	Dimensions HxWxD (mm)	Qty
4SC25	25	1160	80x44x87	1
4SC40	40	1600	80x44x87	1
4SC50	50	2700	84x59x95	1
4SC60	60	3350	84x59x121	1
4SC100	100	4300	124x103x118	1
4SC135	135	6200	124x103x118	1

- BS EN 60947-4
- For AC1 lighting and heating loads

## Standard Contactors Accessories - Auxiliary Contacts



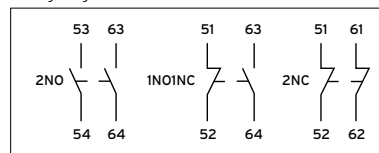
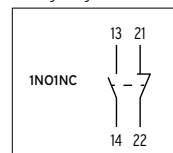
- BS EN 60947-4
- 10A AC1 rated contacts

## Front Mounting

## Side Mounting

Part No.	Contacts	Qty
AUX0/2FM	2NC	1
AUX1/1FM	1NO/1NC	1
AUX0/4FM	4NC	1
AUX1/3FM	1NO/3NC	1
AUX2/2FM	2NO/2NC	1
AUX3/1FM	3NO/1NC	1
AUX4/0FM	4NO	1

Part No.	Contacts	Qty
AUX1/1SM	1NO/1NC	1

Front mounting  
wiring diagramSide mounting  
wiring diagram

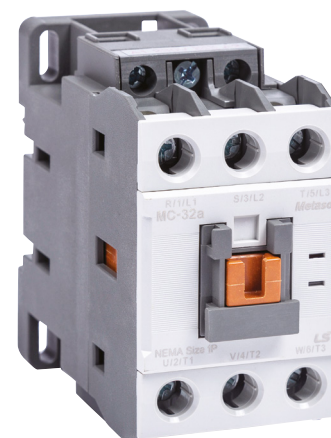
## Mechanical Interlocks - 3 or 4 Pole Standard Contactors



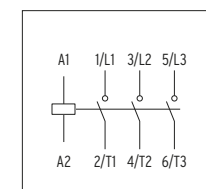
- BS EN 60947-4
- For reversing and star delta starters and dual supply control
- Easy clip-on fit

Part No.	3 Pole AC3 Contactor Rating (A)	4 Pole AC1 Contactor Rating (A)	Qty
4PMI135	Up to 85A	Up to 135A	1

## Standard 3 Pole Contactors - 24V DC Coil



- BS EN 60947-4
- DC switching coils

Optional side auxiliary contact  
unit available page 28

Part No.	DC Coil (V)	AC3 Motor Rating (A)	Integral Auxiliary Contact	Qty
3SC1224D	24	12	1NO/1NC	1
3SC2224D	24	22	1NO/1NC	1
3SC3224D	24	32	-	1
3SC4024D	24	40	-	1
3SC5024D	24	50	-	1
3SC7524D	24	75	-	1

## Mechanical Interlocks - 3 or 4 Pole Larger Contactors



- BS EN 60947-4
- For reversing and star delta starters and dual supply control
- Easy clip-on fit

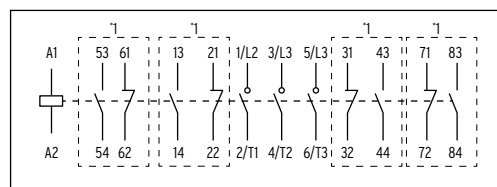
Part No.	3 Pole AC3 Contactor Rating (A)	4 Pole AC1 Contactor Rating (A)	Qty
4PMI450	180-400	230-450	1



## Larger 3 Pole Contactors - 100-240V AC/DC Coil



- BS EN 60947-4
- 3 pole AC3 for motor control
- Fitted coil with 100-240VAC/DC voltage range
- Fitted with 2NO/2NC Auxiliary contacts



\*1 - Auxiliary contact units

Part No.	AC3 Motor Rating (A)	Integral Auxiliary Contact	Dimensions HxWxD (mm)	Qty
3LC100	100	2NO/2NC	166x100x147	1
3LC150	150	2NO/2NC	176x120x157	1
3LC225	225	2NO/2NC	203x138x181	1
3LC265	265	2NO/2NC	203x138x181	1
3LC330	330	2NO/2NC	243x163x198	1

## Contactor Coils

Part No.	Voltage (V AC)	Contactor Size (A)	Qty
CC12940	12	9 to 40	1
CC125085	12	50 to 85	1
CC24940	24	9 to 40	1
CC248085	24	50 to 85	1
CC48940	48	9 to 40	1
CC485085	48	50 to 85	1
CC110940	110	9 to 40	1
CC1105085	110	50 to 85	1
CC230940	230	9 to 40	1
CC415940	415	9 to 40	1
CC2305085	230	50 to 85	1
CC4155085	415	50 to 85	1

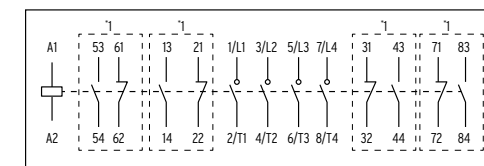


• For SC range of standard contactors

## Larger 4 Pole Contactors - 100-240V AC/DC Coil



- BS EN 60947-4
- 4 pole AC1 for heating and lighting
- Fitted coil with 100-240V AC/DC voltage range
- Fitted with 2NO/2NC Auxiliary contacts



\*1 - Auxiliary contact units

Part No.	AC1 Thermal Rating (A)	Integral Auxiliary Contact	Max LED Switching (W)	Dimensions HxWxD (mm)	Qty
4LC150	150	2NO/2NC	12500	203x175x181	1
4LC200	200	2NO/2NC	13800	203x175x181	1
4LC250	250	2NO/2NC	17800	203x175x181	1
4LC450	450	2NO/2NC	36300	243x206x199	1
4LC750	750	2NO/2NC	49300	310x346x241	1

Auxiliary Contacts  
- for Large Contactors

Part No.	Contacts	Qty
AUX0/4LC	4NC	1
AUX1/3LC	1NO + 3NC	1
AUX2/2LC	2NO + 2NC	1
AUX3/1LC	3NO + 1NC	1
AUX4/0LC	4NO	1

Recommended 4 Pole  
Contactor Enclosure Size

Contactor	Mild Steel Enclosure	Dimensions (mm)
4SC25	MS302015	300x200x150
4SC40	MS302015	300x200x150
4SC50	MS302015	300x200x150
4SC60	MS302015	300x200x150
4SC100	MS302015	300x200x150
4SC135	MS302015	300x200x150
4LC150	MS403020	400x300x200
4LC200	MS403020	400x300x200
4LC250	MS403020	400x300x200
4LC450	MS504025	500x400x250
4LC750	MS604030	600x400x300

## DOL Enclosed Starters - 12A



- DOL 12A Starter**
- BS EN 60947-4
  - Unique mini contactor design
  - 12A AC3 5.5kW rated
  - Compact size
  - Wired push button control
  - ABS plastic cover RAL7035
  - Metal base RAL7012
  - Takes ORMC type overloads page 22

Part No.	AC3 Rating (A)	AC3 Rating (kW)	Coil Voltage (V AC)	Overload Type	Dimensions HxWxD (mm)	Qty
DOL12230	12	5.5	230	ORMC	175x90x126	1
DOL12415	12	5.5	415	ORMC	175x90x126	1

Overload relays must be ordered separately: ORMC type - page 22.

**Note:** The maximum overload amperage setting must not exceed the contactor rating.

## DOL Enclosed Starters - 22A



- DOL 22A Starter**
- BS EN 60947-4
  - 22A AC3 11kW rated
  - Wired push button control
  - ABS plastic cover RAL7035
  - Metal base RAL7012
  - Takes ORSC type overloads - page 25

Part No.	AC3 Rating (A)	AC3 Rating (kW)	Coil Voltage (V AC)	Overload Type	Dimensions HxWxD (mm)	Qty
DOL22230	22	11	230	ORSC	201x118x145	1
DOL22415	22	11	415	ORSC	201x118x145	1

Overload relays must be ordered separately: ORSC type - page 25.

**Note:** The maximum overload amperage setting must not exceed the contactor rating.

## Modular Contactors



1MC2/2024



2MC0/2524

- BS EN 60947-4
- Up to 415V switching
- LED indication
- OFF-AUTO-ON facility
- 9mm vented spacer

Part No.	Coil Voltage (V AC)	AC1 Current (A)	Contact Configuration	Modules Width	Qty
1MC0/2524	24	25	2NC	1	1
1MC0/25230	230	25	2NC	1	1
1MC1/2024	24	20	1NO/1NC	1	1
1MC1/20230	230	20	1NO/1NC	1	1
1MC2/2024	24	20	2NO	1	1
1MC2/20230	230	20	2NO	1	1
2MC0/2524	24	25	4NC	2	1
2MC0/25230	230	25	4NC	2	1
2MC4/2524	24	25	4NO	2	1
2MC4/25230	230	25	4NO	2	1
3MC0/4024	24	40	4NC	3	1
3MC0/40230	230	40	4NC	3	1
3MC4/4024	24	40	4NO	3	1
3MC4/40230	230	40	4NO	3	1
3MC0/6324	24	63	4NC	3	1
3MC0/63230	230	63	4NC	3	1
3MC4/6324	24	63	4NO	3	1
3MC4/63230	230	63	4NO	3	1

## Vented spacer

- BS EN 60947-4

Part No.	Modules Width	Qty
MCA3	1	1

Side Mounting Auxiliary Contacts  
- for Modular Contactors

Part No.	Contacts	Width	Qty
MCAUX11	1NO + 1NC	9mm	1
MCAUX20	2NO	9mm	1



## Modular Enclosures - Metal Clad



- BS EN 60439
- IP20
- Ideal for housing modular contactors



Part No.	Modules Width	Dimensions HxWxD (mm)	Qty
EM3220	2	145x80x62	1
EM3220L	2	225x80x62	1
EM3420	4	175x110x62	1
EM3420L	4	225x110x62	1
M3CU6E	6	237x163x110	1
M3CU8E	8	237x199x110	1
M3CU10E	10	237x235x110	1
M3CU14E	14	237x307x110	1
M3CU18E	18	237x379x110	1
M3CU21E	21	237x443x110	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

# LOOKING FOR 3 PHASE BOARDS?

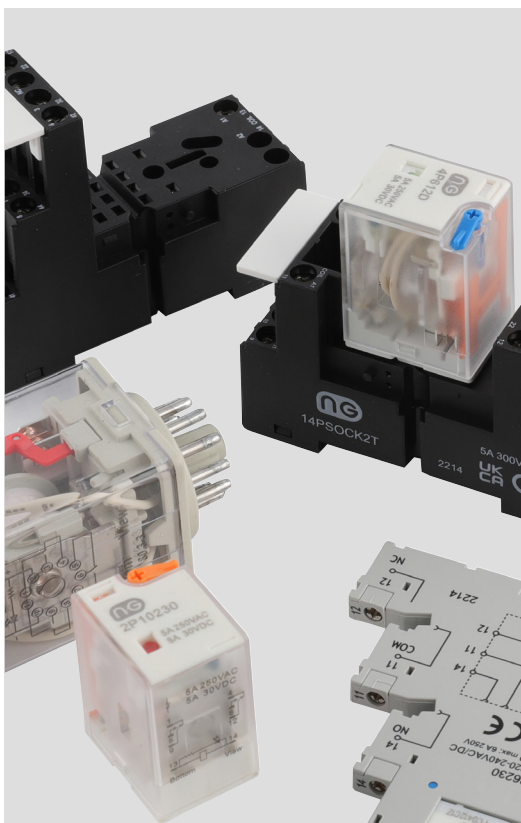
Find more in our Niglon  
essentials catalogue



## Lighting Guide for 4 Pole Modular Contactors

Lamp Wattage	Lamp Wattage	Rated Output per Pole			
		20A	25A	40A	63A
LED 230V Non Dimmable with driver	4 - 12	37	48	78	118
	17 - 22	27	35	57	90
	30 - 40	18	24	39	62
	50	14	19	31	49
LED 230V Dimmable with driver	4 - 12	80	104	144	218
	17 - 22	60	78	105	166
	30 - 40	41	55	76	112
	50	32	43	59	92
LED 230V Dimmable High Bay with driver	100	3	4	5	7
	150	1	2	3	5
	200	1	1	3	5
LED 12V Dimmable with external driver	1 - 5	80	104	164	198
	7 - 10	80	104	144	180
	15	60	78	144	180
Tungsten Halogen 230V	40	38	50	68	105
	60	31	39	59	95
	100	19	25	36	58
	200	8	12	19	31
Fluorescent tube single with starter (pf <0.9)	18	20	26	61	85
	36	18	24	52	78
	42	15	20	48	73
	58	11	15	32	50
	80	9	12	26	41
	115	6	9	17	27
Fluorescent tube double with starter (pf <0.9)	2 x 18	25	34	44	67
	2 x 36	18	26	38	59
	2 x 42	14	20	35	56
	2 x 58	11	15	23	37
	2 x 80	8	11	18	30
	2 x 115	5	8	13	21
Fluorescent tube single with electronic ballast	18	13	18	30	50
	36	12	17	28	44
	42	10	16	24	36
	58	9	15	22	33
	80	8	13	19	28
Fluorescent tube double with electronic ballast	2 x 18	12	17	28	44
	2 x 36	9	15	22	33
	2 x 58	8	12	16	24
	2 x 80	7	10	16	26
Metal Halide Discharge Lamp	70	8	11	19	35
	150	5	7	10	19
	250	3	6	7	13
	400	0	1	4	6





## RELAYS & TIMERS

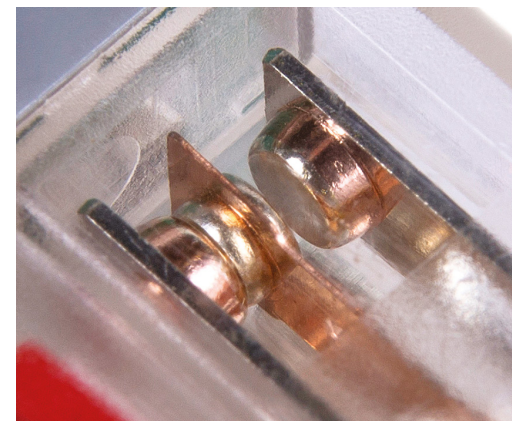
Relay Selection Guide	Page 35
8 & 11 Pin Relays & Sockets	Page 36
2 and 4 Pole Miniature Relays & Sockets	Page 37-38
Slimline Relays & Sockets	Page 39
Interface Relays	Page 40
Terminal Relays	Page 41
Multifunction Timers	Page 43
Timers & Voltage Monitors	Page 44-45

## Relay Selection Guide

A relay is an electrically operated switch for the isolation and switching of circuits. Relays are generally used to switch high power loads, controlled by a low-power signal.

### What are the Contacts?

The contacts of the relay are used to power the switch between the power supply and the load. The operation of the contacts, are controlled by a component named the coil.

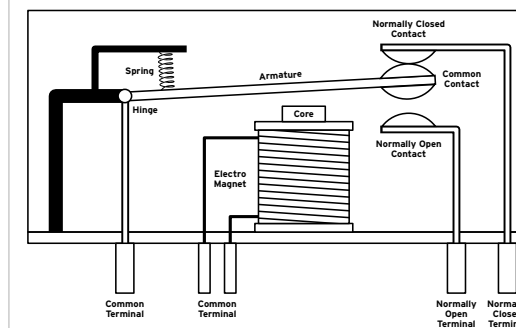


### Contacts Terminology Explained:

**Normally Open Contacts (NO)** - Current flows when an electric current is connected to the coil.

**Normally Closed Contacts (NC)** - Current flows when there is no electric current to the coil and becomes an open circuit once power is applied.

**Change-Over Contact (CO)** - A combination of normally open and normally closed contacts. Standard configuration for industrial plug-in relays.)



### Information you need to know to select your relay:

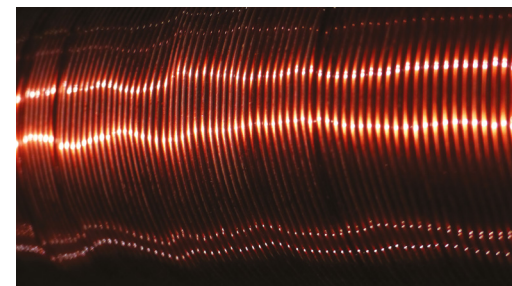
1. The type of load and current which is to be switched.
2. The control voltage of the coil.
3. The number of switching contacts required.

### Note

All Niglon relays are AC-1 rated. Relays are not suitable for controlling motors - Please see our Motor Control Section (Pages 19-33) for more applicable products.

### What is a Coil?

The coil is the component which operates the switching of a relay. When connecting an electrical supply the coil temporarily becomes a magnet, causing the contacts of the relay to change position. When selecting a coil you must pay particular attention to the selection of the correct AC/DC control voltage for your application.



IDENTIFY YOUR  
**RELAY**

**Not Sure About  
the Model of Your  
Relay or Socket?**

Take a photo of the relay  
and send it to our sales team:

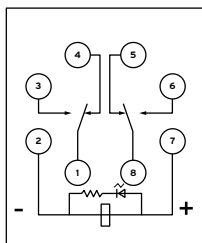
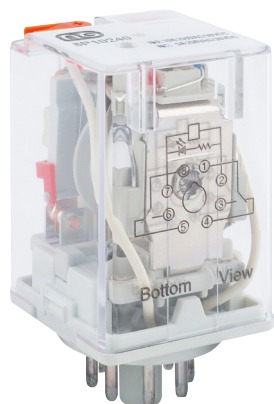
**sales@niglon.co.uk**

We will be able to provide you  
with the information on any  
like-for-like equivalents from  
our own product ranges.



## DPCO Plug-in Relays

- 8 Pin

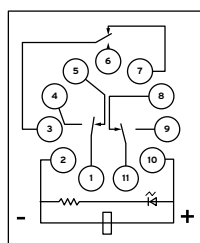
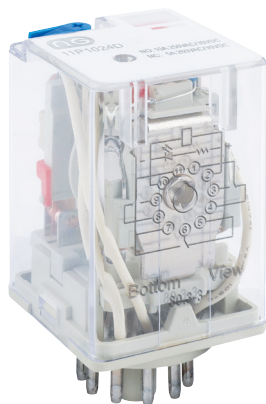


Part No.	Nominal Coil Voltage	Qty
8P1012D	12V DC	1
8P1024D	24V DC	1
8P1024	24V AC	1
8P10120	110V AC	1
8P10240	230V AC	1

- BS EN 60947-4-1
- Universal connection
- 2 x 10A changeover contacts
- LED & flag indicator
- Lock off test button

## 3PCO Plug-in Relays

- 11 Pin

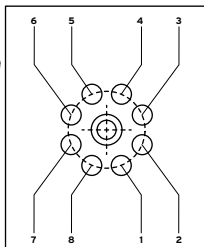


Part No.	Nominal Coil Voltage	Qty
11P1012D	12V DC	1
11P1024D	24V DC	1
11P1024	24V AC	1
11P10120	110V AC	1
11P10240	230V AC	1

- BS EN 60947-4-1
- Universal connection
- 3 x 10A changeover contacts
- LED & flag indicator
- Lock off test button

## Socket for DPCO Plug-in Relays

- 8 Pin

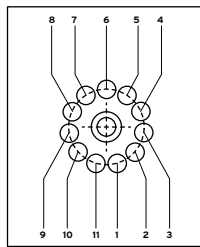


- BS EN 60947-4-1

Part No.	Dimensions LxWxD (mm)	Qty
8PSOCK	62x38x26	1

## Socket for 3PCO Plug-in Relays

- 11 Pin



- BS EN 60947-4-1

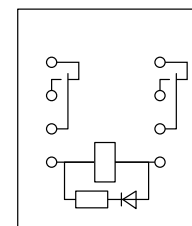
Part No.	Dimensions LxWxD (mm)	Qty
11PSOCK	62x38x26	1

## 2PCO Miniature Relays - 8 Pin

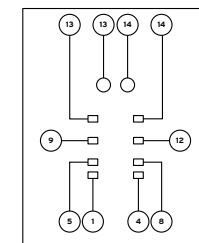


- BS EN 60947-4-1
- Universal connection
- 2 x 5A changeover contacts
- LED & flag indicator
- Lock off test button

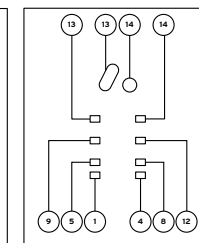
Part No.	Nominal Coil Voltage	Qty
2P1012D	12V DC	1
2P1024D	24V DC	1
2P1024	24V AC	1
2P10120	110V AC	1
2P10230	230V AC	1



## Socket for 2PCO Miniature Relays - 8 Pin



8PSOCK2T



8PSOCK3T

- BS EN 60947-4-1
- Diode modules accepted

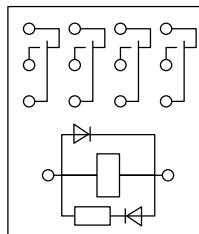
Part No.	No. of Tiers	Dimensions LxWxD (mm)	Qty
8PSOCK2T	2	76x27x42.4	1
8PSOCK3T	3	76x27x61	1

## 4PCO Miniature Relays - 14 Pin



- BS EN 60947-4-1
- Universal connection
- 4 x 5A changeover contacts
- LED & flag indicator
- Lock off test button

Part No.	Nominal Coil Voltage	Qty
4P612D	12V DC	1
4P624D	24V DC	1
4P624	24V AC	1
4P6120	110V AC	1
4P6230	230V AC	1

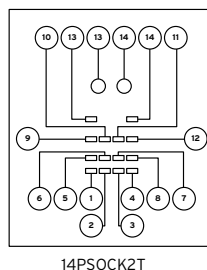


## Socket for 4PCO Miniature Relays - 14 Pin

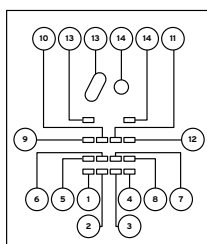


- BS EN 60947-4-1
- Diode modules accepted

Part No.	No. of Tiers	Dimensions LxWxD (mm)	Qty
14PSOCK2T	2	75.4x 27.2x 42.4	1
14PSOCK3T	3	75.4x 27.2x 61	1



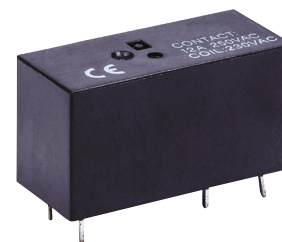
14PSOCK2T



14PSOCK3T



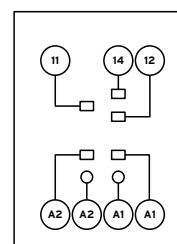
## SPCO Slimline Relays - 5 Pin



- BS EN 60947-4-1
- 1 changeover contact
- 1 pole 12A contact rating

Part No.	Nominal Coil Voltage	Qty
1P1212D	12V DC	1
1P1224D	24V DC	1
1P1224	24V AC	1
1P12115	115V AC	1
1P12230	230V AC	1

## Socket for SPCO Slimline Relays - 5 Pin



- BS EN 60947-4-1
- Diode & LED modules accepted

Part No.	Qty
5PSOCK-SLIM	1



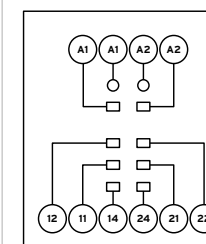
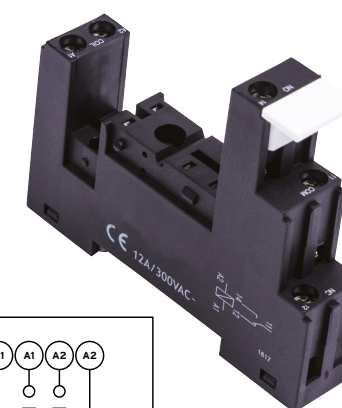
## DPCO Slimline Relays - 8 Pin



- BS EN 60947-4-1
- 2 changeover contacts
- 2 pole 8A contact rating

Part No.	Nominal Coil Voltage	Qty
2P812D	12V DC	1
2P824D	24V DC	1
2P824	24V AC	1
2P8115	115V AC	1
2P8230	230V AC	1

## Socket for DPCO Slimline Relays - 8 Pin



- BS EN 60947-4-1
- Diode & LED modules accepted

Part No.	Qty
8PSOCK-SLIM	1



## Plastic Clip - Slimline Relays

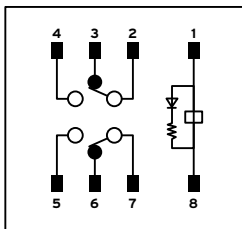
- Function - Retains and ejects relay

Part No.	Qty
1PRCLIP	1



## DPCO Interface Relays

- 8 Pin



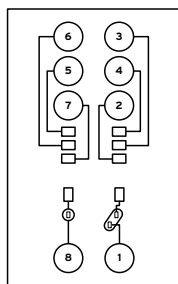
- BS EN 60947-4-1
- 2 x 8A changeover contacts
- LED & flag indicator
- Lock off test button
- Blade connection for strength

Part No.	Nominal Coil Voltage	Qty
IR812D	12V DC	1
IR824D	24V DC	1
IR824	24V AC	1
IR8115	110V AC	1
IR8230	230V AC	1

### Socket for DPCO Interface Relays - 8 Pin



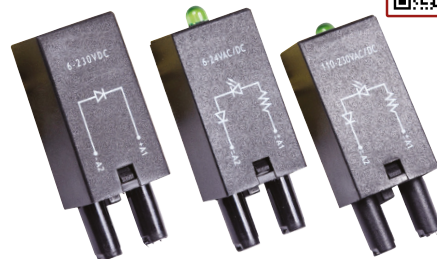
- BS EN 60947-4-1
- Complete with clip



Part No.	Qty
8PSOCK-INT	1

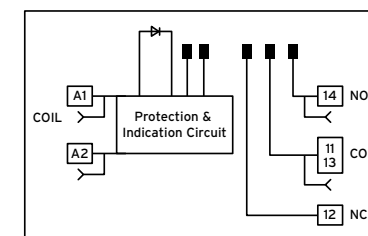
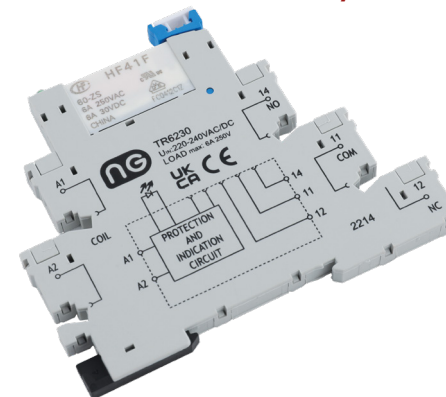
## Relay Accessories - Plug-in Diode Modules

- Plugin modules for protection and indication
- Fits miniature, slimline and interface relays
- Relay retains module when fitted into socket



Part No.	Nominal Coil Voltage	LED	Qty
RM1	6 - 230V DC	-	1
RM2	6 - 24V AC/DC	Green LED	1
RM3	110 - 230V AC/DC	Green LED	1

## SPCO Terminal Relays with Socket

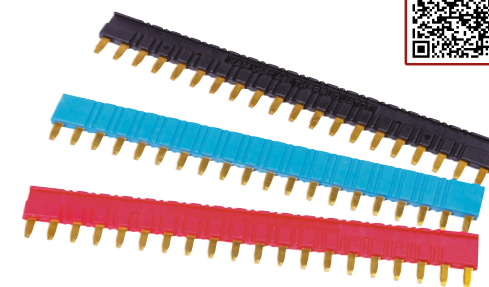


Part No.	Nominal Coil Voltage	Qty
TR624	24V AC/DC	1
TR6230	230V AC/DC	1

- BS EN60947-4-1
- 6mm slim relay
- 6A changeover contact
- Integral protection and indication
- Relay eject button with marker tag
- Common and neutral terminals can be connected with combs

## Terminal Relays Bridging Combs - 20 Way

- Connection - Common and/or coil terminals
- Colours Available - Red, blue, black



Part No.	Maximum Rated Current	Colour	Qty
TR20BCB	30A	Black	1
TR20BCBL	30A	Blue	1
TR20BCR	30A	Red	1

## Relay Enclosure Screw-On High Cover - 60 & 90mm



- BS EN 50102, BS EN 695-2-1, BS EN 670, CEI23-48
- IP55
- IK08
- High Performing Material
- Material Stability -25°C to 90°C
- Glow-wire tested 960°C
- RAL 7035 colour

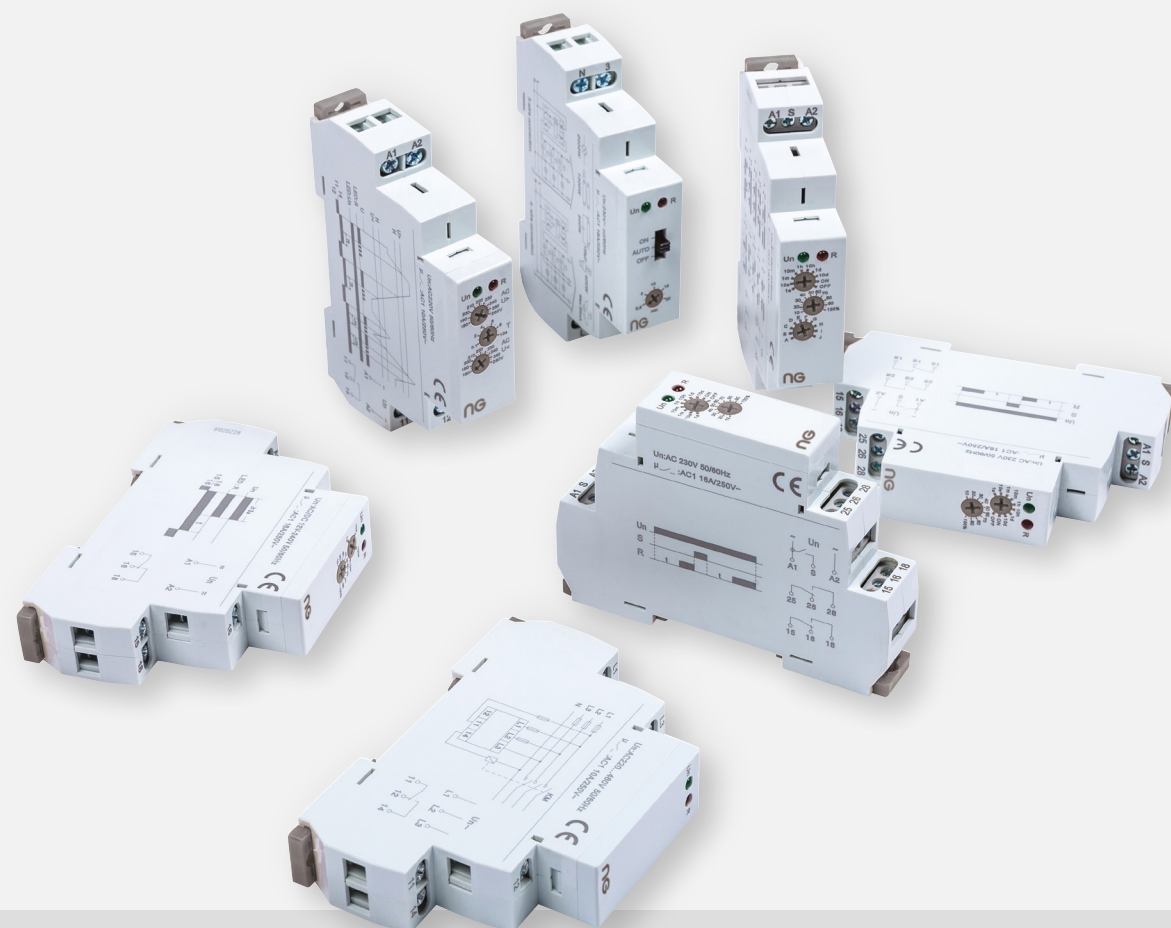
Part No.	Dimensions HxWxD (mm)	Fairleads	Qty
93221	112x110x110	Plain Sides	1

Discount structure on these items differs to the standard discount used throughout this catalogue.



# TIMERS & MONITORS

Choose from our full range



## Timers

- Up to 10 Functions
- AC/DC Voltage 12-240V
- LED Indication
- High amperage relay output

## Voltage Monitors

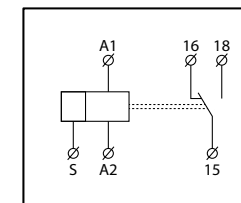
- Powered from monitored voltage
- LED fault indication
- Under and over voltage monitoring
- Phase failure

## Multifunction, Multivoltage Timer - Premium



### Functions

- A - ON delay
- B - Interval (with voltage applied)
- C - Symmetric recycle OFF start
- D - Symmetric recycle ON start
- E - Off Delay (S Break)
- F - Single shot leading edge with control input
- G - Single shot trailing edge with control input
- H - On then Off delay
- I - Latching Relay
- J - 0.5s Pulse Generator

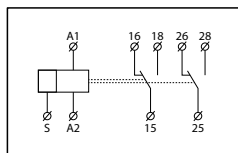


Part No.	Voltage Range (AC/DC)	Qty
MFTP	24-240V	1

- BS EN 60947-5-1 & BS EN 61812-1
- 16A changeover contact
- 10 functions
- 12-240V AC or DC coil
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV



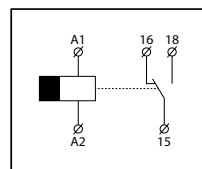
## Delay ON Single Function Timer



Part No.	Voltage Range (AC/DC)	Qty
DOST	12-240V	1

- BS EN 60947-5-1 and BS EN 61812-1
- 16A changeover contact
- Single function Delay ON
- 12-240V AC or DC coil
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

## True Delay OFF Timer

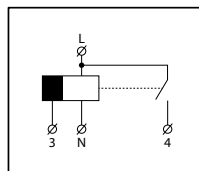


Note - Voltage must be applied for a minimum of 3 seconds to ensure correct operation

Part No.	Voltage Range (AC/DC)	Qty
TDOT	12-240V	1

- BS EN 60947-5-1 and BS EN 61812-1
- True delay off timer needs no supply to time out
- 12-240V AC or DC coil
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

## Staircase Switch Timer



Note - As the timer must have a permanent live feed, it is necessary to externally switch by using the neutral

Part No.	Voltage Range (AC/DC)	Qty
SCT	230V	1

- BS EN 60947-5
- For stairway and corridor lighting
- 0.5 seconds to 20 minute time range
- 240V AC coil
- OFF - AUTO - ON selection
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

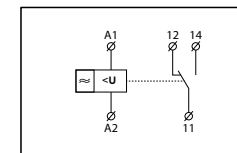
## CONTROL BOXES



- Ideal for process controls
- Opaque or Transparent lids
- Range of popular sizes

See Page  
16-17

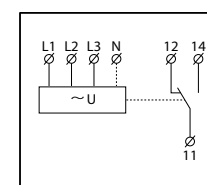
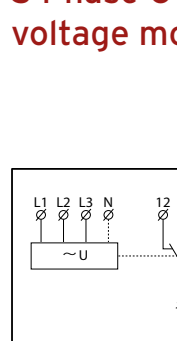
## Single Phase Voltage Monitor



Part No.	Voltage Range (AC/DC)	Qty
VMT1	110 - 240V	1

- BS EN 60947-5-1 and BS EN 60255-1
- Single Phase Voltage Monitor
- Monitors own supply (true RMS)
- Over and Under voltage 180 - 260 V
- 16A SPCO relay output
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

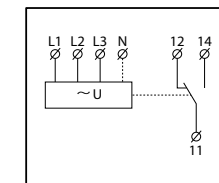
## 3 Phase Over/Under voltage monitor



Part No.	Voltage Range (AC/DC)	Qty
VMT3	220 - 460V	1

- BS EN 60947-5-1 and BS EN 60255-1
- 3 phase Voltage monitor
- Monitors own supply (true RMS)
- Over and Under voltage 200 - 460 V
- Monitors phase sequence & presence
- 16A SPCO relay output
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

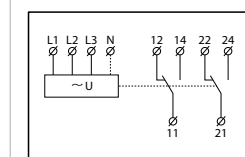
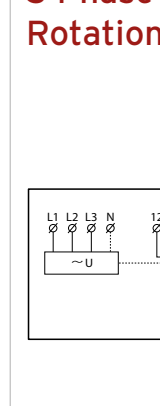
## Phase Failure Relay



Part No.	Voltage Range (AC/DC)	Qty
VMT2	110 - 240V	1

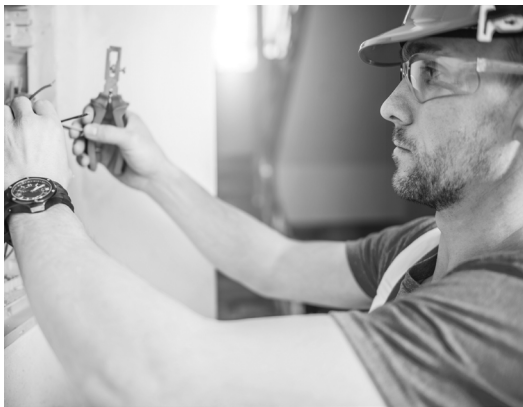
- BS EN 60947-5-1 and BS EN 60255-1
- Phase failure relay
- Monitors phase sequence & presence
- 16A SPCO relay output
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

## 3 Phase Failure & Rotation Monitor



Part No.	Voltage Range (AC/DC)	Qty
VMT4	127 - 230V	1

- BS EN 60947-5-1 and BS EN 60255-1
- 3 phase Voltage monitor
- Monitors own supply (true RMS)
- Over and Under voltage 200 - 460 V
- Monitors phase sequence & presence
- Monitors Asymmetry
- 2 x 8A SPCO relay outputs
- Power and run LED indicators
- 17.5mm DIN housing
- Certification TÜV

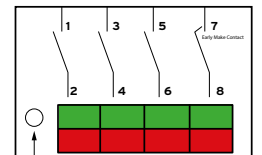


## ENCLOSED SWITCHGEAR

Polycarbonate Switch Disconnectors	Page 47
Mild Steel & Stainless Steel Rotary Isolators	Page 48
DC Switching Isolators	Page 49
Rear of Panel Isolators	Page 50
Compact Switch Disconnectors and Switchfuses	Page 51
Enclosed Switch Disconnectors	Page 52-54
Fuse Switches & Cylindrical Fuses	Page 55
Enclosed Switch Fuses	Page 56-58
HRC Fuses	Page 59-62
Changeover Switches	Page 63-65
Surge Protection	Page 66-67
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MCCB Accessories	Page 71
Enclosed MCCB& Enclosed CBR	Page 72
MCCBs	Page 73
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Feild Fit Accessories	Page 74-75
Upgrade Your Point of Sale	Page 76



## ENCLOSED SWITCHGEAR

### Enclosed Switch Disconnectors 4 Pole - Polycarbonate



Note 7 = Early Make Contact

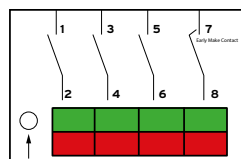
Part No.	Dimensions HxWxD (mm)	AC23 (A)	Terminal Capacity (mm)	Qty
IS204	126x 101x 86	20	2.5	1
IS254	126x 101x 86	25	4.0	1
IS254P-L	176x 115x 101	25	4.0	1
IS324	126x 101x 86	32	6.0	1
IS324P-L	176x 116x 101	32	6.0	1
IS404	176x 116x 101	40	10	1
IS634	176x 116x 101	63	16	1
IS804	240x 160x 122	80	25	1
IS1004	240x 160x 122	100	35	1
IS1254P	240x 160x 122	125	50	1

- BS EN 61439-1 (enclosure)
- BS EN 60947-1&3 (switch)
- IP66
- Fully rated switched neutral
- \*Material - Glass fibre reinforced polycarbonate
- For accessories see page 49
- Certification -  

The Niglon IS range is suitable for 3 pole, 3 pole & switch neutral and 4 pole switching.

Discount structure on these items differs to the standard discount used throughout this catalogue.

## Enclosed Switch Disconnectors 4 Pole - Mild Steel



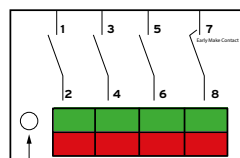
Note 7 = Early Make Contact

- BS EN 61439-1 (enclosure)
- BS EN 60947-1&3 (switch)
- IP54
- Fully rated switched neutral
- For accessories see page 49
- Certification

Part No.	AC23 (A)	Terminal Capacity (mm)	Dimensions HxWxD (mm)	Depth including switch HxWxD (mm)	Qty
ISM404P	40	10	220x145x95	120	1
ISM634P	63	16	220x145x95	135	1
ISM804P	80	25	270x220x150	135	1
ISM1004P	100	35	270x220x150	160	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## Enclosed Switch Disconnectors 4 Pole - Stainless Steel



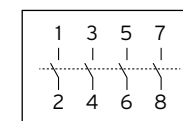
Note 7 = Early Make Contact

- BS EN 61439-1 (enclosure)
- BS EN 60947-1&3 (switch)
- IP65
- Fully rated switched neutral
- 304 grade
- For accessories see page 49
- Certification

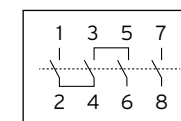
Part No.	AC23 (A)	Terminal Capacity (mm)	Dimensions HxWxD (mm)	Depth including switch HxWxD (mm)	Qty
ISS324P	32	6.0	160x120x83	120	1
ISS404P	40	10	260x160x96	135	1
ISS634P	63	16	260x160x96	135	1
ISS804P	80	25	260x160x116	160	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

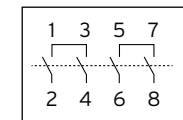
## Enclosed DC Switch Disconnectors 4 Pole - Polycarbonate



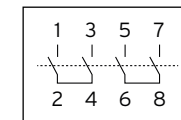
4 Pole



4 Pole with jumper link



2 Pole in series & 2 Pole in parallel



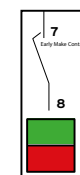
2+2 Pole

- BS EN 61439-1 (enclosure)
- BS EN 60947-3 & BS EN 60364-7 (switch)
- IP66
- 1500V insulation voltage
- Certification

Part No.	DC21-B (A)	Terminal Capacity (mm)	Dimensions HxWxD (mm)	Depth including switch HxWxD (mm)	Qty
ISDC164	16	2.5	160x83x86	116	1
ISDC254	25	4.0	160x83x86	116	1
ISDC324	32	6.0	160x83x86	116	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## Additional Neutral Block

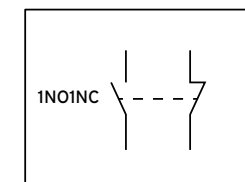


Note 7 = Early Make Contact

- BS EN 60947-3
- IP20
- Fully rated early make contact

Part No.	AC22 (A)	Qty
ISN32	32	1
ISN40	40	1
ISN63	63	1
ISN80	80	1
ISN100	100	1
ISN125	125	1

## Auxiliary Contacts



- BS EN 60947-3
- IP20
- 10A AC1 contact rating

Part No.	Contact Configuration	Compatible with	Qty
AUX1	1NO/1NC	25-32A	1
AUX3	1NO/1NC	40-63A	1
AUX5	1NO/1NC	80-125A	1

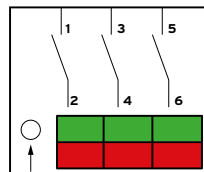
Note - the above can also be used with IS type boxed isolators



## Rear of Panel Skeletal Isolator



- BS EN 60947-3
- Fully rated switch neutral
- Defeatable handle accepts 3 padlocks
- Shrouded terminals
- Telescopic shaft
- See page 49 for auxiliary contacts



## 3 Pole

Part No.	AC22 (A)	Shaft Length (mm)	Qty
PIS325	25	300	1
PIS332	32	300	1
PIS340	40	300	1
PIS363	63	300	1
PIS380	80	300	1
PIS3100	100	300	1
PIS3125	125	300	1

## 4 Pole

Part No.	AC22 (A)	Shaft Length (mm)	Qty
PIS4160	160	300	1
PIS4200	200	300	1
PIS4250	250	300	1
PIS4315	315	300	1
PIS4400	400	300	1
PIS4630	630	300	1
PIS4800	800	300	1
PIS41000	1000	300	1
PIS41250	1250	300	1



## Compact Switch Disconnectors - Mild Steel



- BS EN 60947-3
- IP54 rated
- Defeatable handle accepts 3 padlocks
- Top and bottom entry gland plates
- Door opens 120°



Close up of the switch handle.

Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Dimensions HxWxD (mm)	Qty
MS1004PCM	100	M8x25	15 - 22 Nm	275x275x180	1
MS1254PCM	125	M8X25	15 - 22 Nm	275x275x180	1

## Compact Enclosed Switchfuses - Mild Steel



- BS EN 60947-3
- IP54 rated
- Defeatable handle accepts 3 padlocks
- Top and bottom entry gland plates
- Door opens 120°
- Accepts BS88 fuse links



Close up of the switch handle.

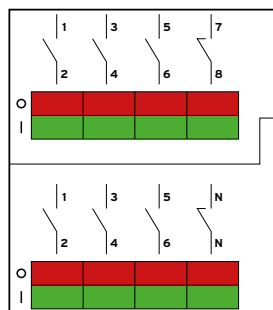
Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Fuselink size	Dimensions HxWxD (mm)	Qty
MS323PSFCM	32	-	5 Nm	A2 - A3	275x225x180	1
MS633PSFCM	63	-	5Nm	A2 - A3	275x225x180	1
MS1003PSFCM	100	M8x25	15 - 22 Nm	A4	275x275x180	1
MS1253PSFCM	125	M8X25	15 - 22 Nm	A4	275x275x180	1



## Enclosed Switch Disconnectors 4 Pole - Mild Steel



- BS EN 61439-1 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- Fully rated switched neutral
- RAL 7035
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- Bottom entry gland plate
- \*Larger enclosures for increased cabling space, extended range up to 3100A available
- See page 74 for Auxiliary contacts



Close up of the switch handle.

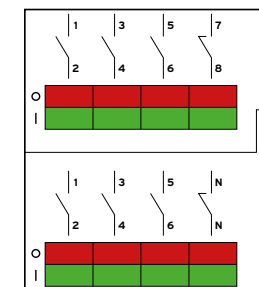
Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Dimensions HxWxD (mm)	Qty
MS1604P	160	M8x25	15-22 Nm	400x400x200	1
MS2004P	200	M8x25	15-22 Nm	400x400x200	1
MS2504P	250	M10x30	30-44 Nm	600x400x300	1
MS2504P-L	250	M10 x 30	30 - 44 Nm	1000x600x300	1
MS3154P	315	M10x30	30-44 Nm	600x400x300	1
MS3154P-L	315	M10 x 30	30 - 44 Nm	1000x600x300	1
MS4004P	400	M10x40	30-44 Nm	600x400x300	1
MS4004P-L*	400	M10x40	30-44 Nm	1000x600x300	1
MS6304P	630	M12x40	50-75 Nm	600x400x300	1
MS6304P-L*	630	M12x40	50-75 Nm	1000x600x300	1
MS8004P	800	M12x40	50-75 Nm	1000x600x300	1
MS8004P-L*	800	M12x40	50-75 Nm	1200x800x300	1
MS10004P	1000	M12x60	50-75 Nm	1000x800x300	1
MS10004P-L*	1000	M12x60	50-75 Nm	1200x800x300	1
MS12504P	1250	M12x60	50-75 Nm	1000x800x300	1
MS12504P-L*	1250	M12x60	50-75 Nm	1200x800x300	1

New and Improved Sizing for 2023 - More sizes available on request

## Enclosed Switch Disconnectors 4 Pole - Polycarbonate



- BS EN 62208 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- IK10 impact resistance
- Fully rated switched neutral
- RAL 7035
- UL508 UV resistance
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- See page 74 for Auxiliary contacts



Close up of the switch handle.

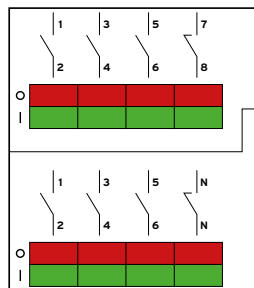
Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Dimensions HxWxD (mm)	Qty
PC1604P	160	M8x25	15-22 Nm	500x400x200	1
PC2004P	200	M8x25	15-22 Nm	500x400x200	1
PC2504P	250	M10x30	30-44 Nm	500x400x200	1
PC3154P	315	M10x30	30-44 Nm	500x400x200	1
PC4004P	400	M10x40	30-44 Nm	800x600x300	1
PC6304P	630	M12x40	50-75 Nm	800x800x300	1
PC8004P	800	M12x40	50-75 Nm	800x600x300	1

New and Improved Sizing for 2023 - More sizes available on request

## Enclosed Switch Disconnectors 4 Pole - Stainless Steel



- BS EN 61439-1 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- Fully rated switched neutral
- 304 Grade
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- See page 74 for Auxiliary contacts



Close up of the switch handle.

Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Dimensions HxWxD (mm)	Qty
SS1604P	160	M8x25	15-22 Nm	400X400X200	1
SS2004P	200	M8x25	15-22 Nm	400x400x200	1
SS2504P	250	M10x30	30-44 Nm	400x400x210	1
SS3154P	315	M10x30	30-44 Nm	600x600x300	1
SS4004P	400	M10x40	30-44 Nm	600x600x300	1
SS6304P	630	M12x40	50-75 Nm	600x600x300	1
SS8004P	800	M12x40	50-75 Nm	1000x800x300	1
SS10004P	1000	M12x60	50-75 Nm	1000x800x300	1
SS12504P	1250	M12x60	50-75 Nm	1000x800x300	1

New and Improved Sizing for 2023 - More sizes available on request



## Fuse Switches - Mild Steel



- BS EN 61439-1 (enclosure)
- BS EN 60947-1&3 (switch)
- BS EN 60269-1 (fuseholder)
- IP54 (when fully fitted)
- RAL 7035
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- Top and bottom entry gland plates
- Fitted with fully rated fuselinks



Close up of the switch handle.

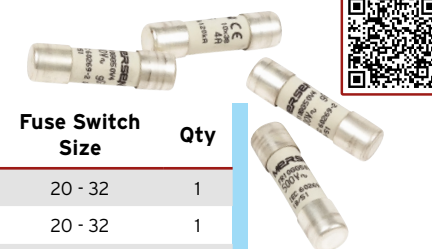
Note: The fuse link size must not exceed the maximum rating of the fuse carrier or the switch.

Part No.	Fuselink Size (mm)	Current AC23-A (A)	Tightening Torque	Terminal Capacity (mm <sup>2</sup> )	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
MS203PFS	10x38	20	1.7 Nm	10	300x250x150	194	1
MS323PFS	10x38	32	1.7 Nm	10	300x250x150	194	1
MS633PFS	22x58	63	2.5 Nm	35	500x300x200	224	1
MS803PFS	22x58	80	2.5 Nm	35	500x300x200	224	1
MS1003PFS	22x58	100	2.5 Nm	35	500x300x200	224	1

Fuses - Fully rated fuse links fitted

## Cylindrical Fuses - Standard gL

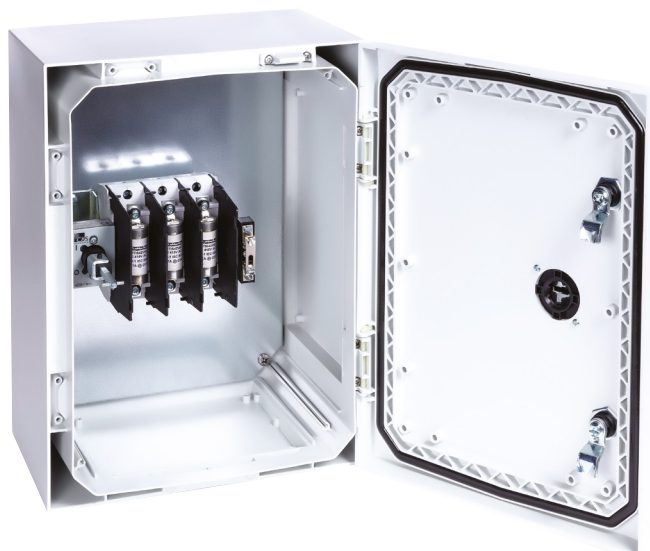
- BS EN 60269-1&2
- General line gG characteristic
- Ceramic body



Part No.	Amp (A)	Rated Voltage/ Breaking Capacity	Dimensions HxWxD (mm)	Fuse Switch Size	Qty
G1038-16	16	500V / 120kA	10x38	20 - 32	1
G1038-20	20	500V / 120kA	10x38	20 - 32	1
G1038-25	25	500V / 120kA	10x38	20 - 32	1
G1038-32	32	400V / 120kA	10x38	20 - 32	1
G2258-40	40	690V / 80kA	22x58	63 - 100	1
G2258-50	50	690V / 80kA	22x58	63 - 100	1
G2258-63	63	690V / 80kA	22x58	63 - 100	1
G2258-80	80	690V / 80kA	22x58	63 - 100	1
G2258-100	100	500V / 120kA	22x58	63 - 100	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

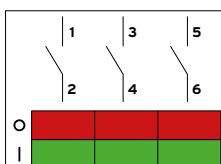
## Enclosed Switchfuses 3 Pole + Neutral - Polycarbonate



- BS EN 62208 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- IK10
- Fully rated fixed neutral
- RAL 7035
- UL508 UV resistance
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- See page 74 for Auxiliary contacts
- See fuselink chart page 59



Close up of the switch handle.



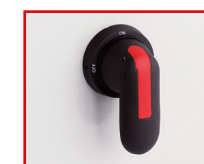
Part No.	Current AC23-A (A)	Cable Size	Terminal Bolt Size (mm)	Tightening Torque	Fuselink Size	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
PC323PSF	32	35mm	-	5 Nm	A2 - A3	400x400x200	261	1
PC633PSF	63	35mm	-	5 Nm	A2 - A3	400x400x200	261	1
PC1003PSF	100	-	M8x25	15-22 Nm	A4	400x400x200	261	1
PC1253PSF	125	-	M8x25	15-22 Nm	A4	400x400x200	261	1
PC1603PSF	160	-	M10x30	30-44 Nm	B1 - B3	400x400x200	261	1
PC2003PSF	200	-	M10x30	30-44 Nm	B1 - B3	400x400x200	351	1
PC2503PSF	250	-	M10x30	30-44 Nm	B1 - B3	800x600x300	351	1
PC3153PSF	315	-	M10x40	30-44 Nm	B1 - B3	800x600x300	351	1
PC4003PSF	400	-	M10x40	30-44 Nm	B1 - B4	800x600x300	364	1
PC6303PSF	630	-	M12x40	50-75 Nm	C1 - C2	800x600x300	364	1
PC8003PSF	800	-	M12x40	50-75 Nm	C1 - C3	800x600x300	364	1

Fuse Links - Sold Separately

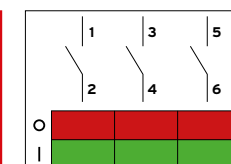
## Enclosed Switchfuses 3 Pole + Neutral - Mild Steel



- BS EN 61439 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- Fully rated fixed neutral
- RAL 7035
- Defeatable handle accepts 3 padlocks
- Bottom entry gland plate
- Shrouded Terminals
- \*Larger enclosures for increased cabling space
- See page 74 for Auxiliary contacts
- See fuselink chart page 59



Close up of the switch handle.



Part No.	Current AC23-A (A)	Cable Size	Terminal Bolt Size (mm)	Tightening Torque	Fuselink Size	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
MS323PSF	32	35mm	-	5 Nm	A2 - A3	400x400x200	251	1
MS633PSF	63	35mm	-	5 Nm	A2 - A3	400x400x200	251	1
MS1003PSF	100	-	M8x25	15-22 Nm	A4	400x400x200	251	1
MS1253PSF	125	-	M8x25	15-22 Nm	A4	400x400x200	251	1
MS1603PSF	160	-	M10x30	30-44 Nm	B1 - B3	400x400x200	251	1
MS2003PSF	200	-	M10x30	30-44 Nm	B1 - B3	600x400x300	351	1
MS2503PSF	250	-	M10x30	30-44 Nm	B1 - B3	600x400x300	351	1
MS2503PSF-L	250	-	M10x30	30-44 Nm	B1- B3	1000x800x300	351	1
MS3153PSF	315	-	M10x40	30-44 Nm	B1 - B3	600x400x300	351	1
MS3153PSF-L	315	-	M10x40	30-44 Nm	B1- B3	1000x800x300	351	1
MS4003PSF	400	-	M10x40	30-44 Nm	B1 - B4	600x400x300	351	1
MS4003PSF-L*	400	-	M10x40	30-44 Nm	B1 - B4	1000x800x300	351	1
MS6303PSF	630	-	M12x40	50-75 Nm	C1 - C2	1000x600x300	364	1
MS6303PSF-L*	630	-	M12x40	50-75 Nm	C1 - C2	1200x800x300	364	1
MS8003PSF	800	-	M12x40	50-75 Nm	C1 - C3	1000x600x300	364	1
MS8003PSF-L*	800	-	M12x40	50-75 Nm	C1 - C3	1200x800x300	364	1

Fuse Links - Sold Separately



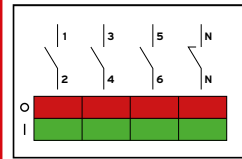
## Enclosed Switchfuses 3 Pole + Switched Neutral - Mild Steel



- BS EN 61439 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- Fully rated switched neutral
- RAL 7035
- Defeatable handle accepts 3 padlocks
- Bottom entry gland plate
- Shrouded terminals
- Larger enclosures for increased cabling space
- See page 74 for Auxiliary contacts
- See fuselink chart page 59



Close up of the switch handle.



Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Fuselink Size	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
MS1253PSNSF	125	M8x25	15 - 22	A4	400x400x200	251	1
MS1603PSNSF	160	M10x30	30 - 44	B1 - B3	400x400x200	251	1
MS2003PSNSF	200	M10x30	30 - 44	B1 - B3	600x400x300	351	1
MS2503PSNSF	250	M10x30	30 - 44	B1 - B3	600x400x300	351	1
MS2503PSNSF-L	250	M10x30	30 - 44	B1 - B3	1000x800x300	351	1
MS3153PSNSF	315	M10x40	30 - 44	B1 - B3	600x400x300	351	1
MS3153PSNSF-L	315	M10x40	30 - 44	B1 - B3	1000x800x300	351	1
MS4003PSNSF	400	M10x40	30 - 44	B1 - B4	600x400x300	351	1
MS4003PSNSF-L	400	M10x40	30 - 44	B1 - B4	1000x800x300	351	1
MS6303PSNSF	630	M12x40	50 - 75	C1 - C2	1000x600x300	351	1
MS6303PSNSF-L	630	M12x40	50 - 75	C1 - C2	1200x800x300	351	1
MS8003PSNSF	800	M12x40	50 - 75	C1 - C3	1000x600x300	351	1
MS8003PSNSF-L	800	M12x40	50 - 75	C1 - C3	1200x800x300	351	1

Fuse Links - Sold Separately

## Fuselink chart

Switch Size	32A	63A	100A	125A	160A	200A	250A	315A	400A	630A	800A
Fixing Centres	73mm	73mm	94mm	94mm	111mm	111mm	111mm	111mm	111mm	133/184mm	133/184mm
Fuselink Size	A2 - A3	A2 - A3	A4	A4	B1 - B3	B1 - B3	B1 - B3	B1 - B3	B1 - B4	C1 - C2	C1 - C3
10A	TIA10	TIA10									
16A	TIA16	TIA16									
20A	TIA20	TIA20									
25A	TIA25	TIA25									
32A	TIA32	TIA32									
36A		TIS36									
40A		TIS40									
50A		TIS50									
63A		TIS63	TCP63	TCP63	TC63	TC63	TC63	TC63	TC63		
80A			TCP80	TCP80	TC80	TC80	TC80	TC80	TC80		
100A			TCP100	TCP100	TC100	TC100	TC100	TC100	TC100		
125A				TCP125	TF125	TF125	TF125	TF125	TF125		
160A					TF160	TF160	TF160	TF160	TF160		
200A						TF200	TF200	TF200	TF200		
250A							TKF250	TKF250	TKF250		
315A								TKF315	TKF315		
355A									TMF355		
400A									TMF400		
450A										TTM450	TTM450
500A										TTM500	TTM500
630A										TTM630	TTM630
710A											TLM710
750A											TLM750
800A											TLM800



## HRC Fuses to Suit Switchfuses - A Ranges



- BS88.2
- Class ASTA<sup>20</sup>CERT
- For use with all switchfuses

Part No.	Range	Amp (A)	Voltage (AC)	Size	Dimensions HxWxD (mm)	Qty
TIA25	A2	25	550	Compact	86x13.5	1
TIA32	A2	32	550	Compact	86x13.5	1
TIS36	A3	36	415	Compact	84x17.1	1
TIS40	A3	40	415	Compact	84x17.1	1
TIS50	A3	50	415	Compact	84x17.1	1
TIS63	A3	63	415	Compact	84x17.1	1
TCP63	A4	63	415	Compact	110x21	1
TCP80	A4	80	415	Compact	110x21	1
TCP100	A4	100	415	Compact	110x21	1
TCP125	A4	125	415	Compact	110x21	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## HRC Fuses to Suit Switchfuses - B Ranges



- BS88.2
- Class ASTA<sup>20</sup>CERT
- For use with all switchfuses

Part No.	Range	Amp (A)	Voltage (AC)	Size	Dimensions HxWxD (mm)	Qty
TC100	B2	100	415	Standard	138x41.9	1
TF125	B2	125	415	Compact	138x 41.9	1
TF160	B2	160	415	Compact	138x 41.9	1
TF200	B2	200	415	Compact	138x 41.9	1
TKF250	B3	250	415	Standard	138x 59.1	1
TKF315	B3	315	415	Standard	138x 59.1	1
TMF355	B4	355	415	Standard	138x 59.1	1
TMF400	B4	400	415	Standard	138x 59.1	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## HRC Fuses to Suit Switchfuses - C Ranges

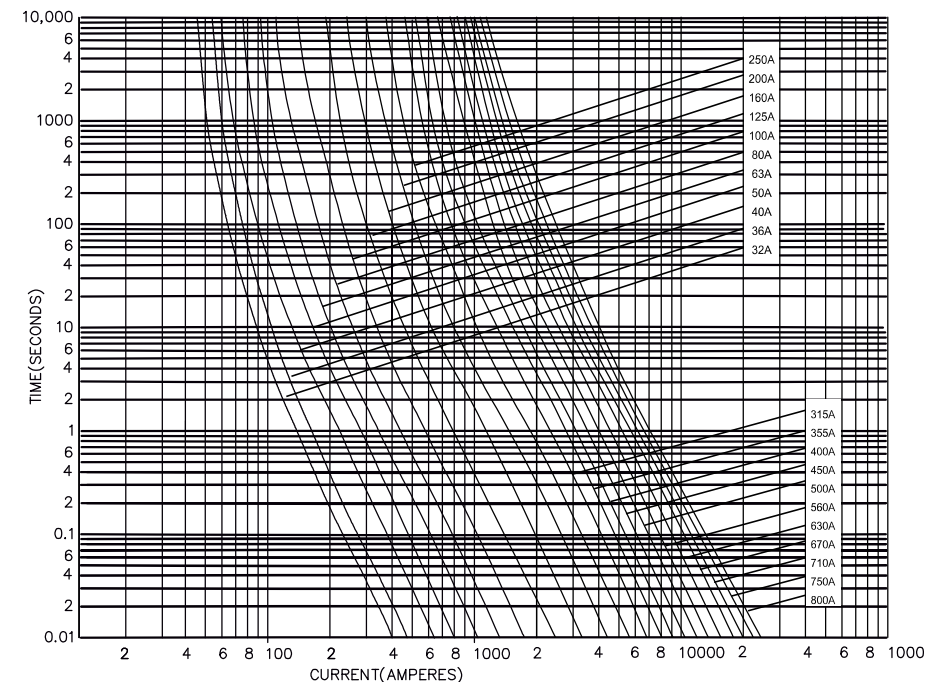


- BS88.2
- Class ASTA<sup>20</sup>CERT
- For use with all switchfuses

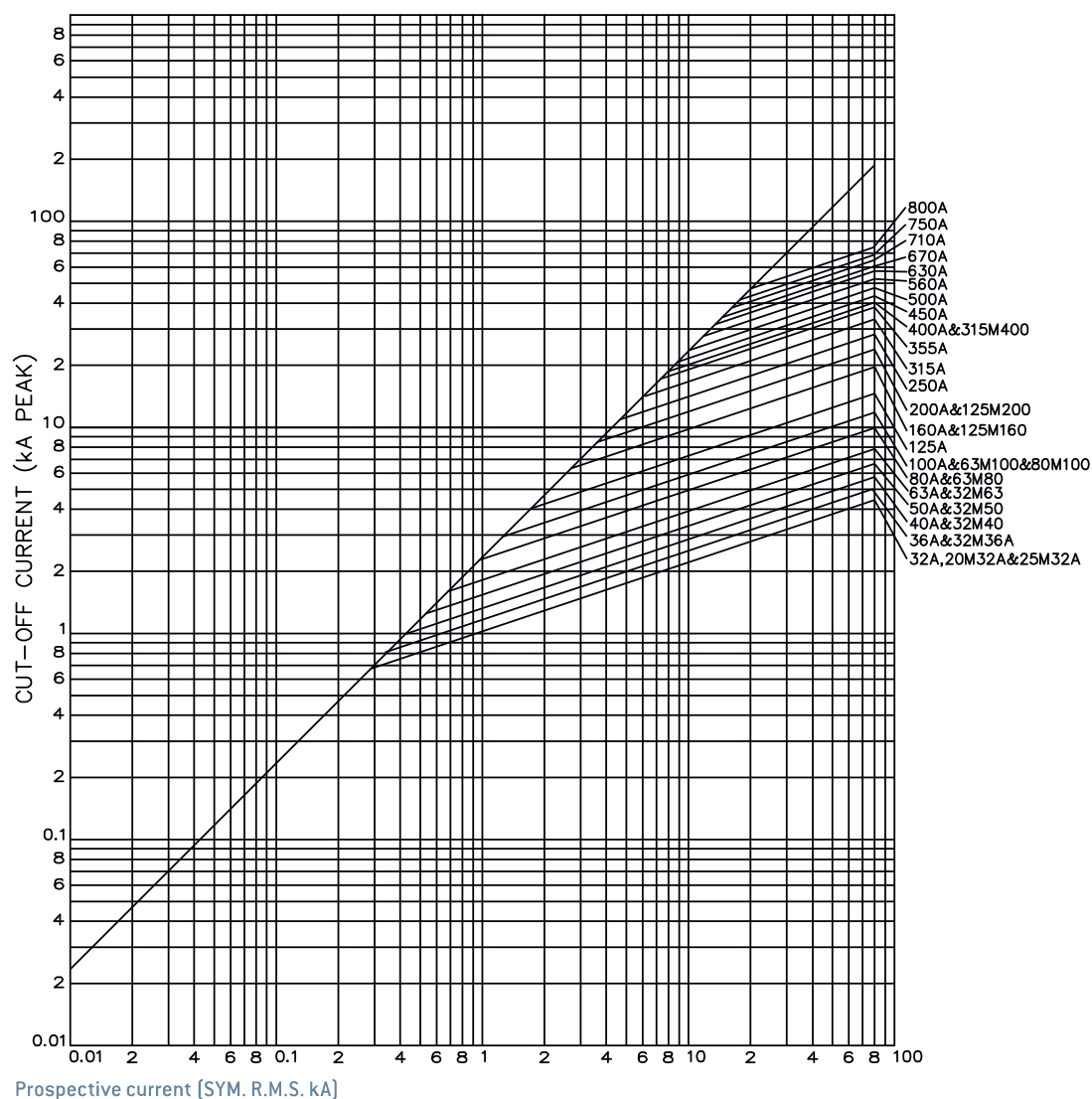
Part No.	Range	Amp (A)	Voltage (AC)	Size	Dimensions HxWxD (mm)	Qty
TTM450	C2	450	415	Standard	212x74.4	1
TTM500	C2	500	415	Standard	212x74.4	1
TTM630	C2	630	415	Standard	212x74.4	1
TLM710	C3	710	415	Standard	212x82.4	1
TLM750	C3	750	415	Standard	212x82.4	1
TLM800	C3	800	415	Standard	212x82.4	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## gG Curves 32 to 800A - 415 ac



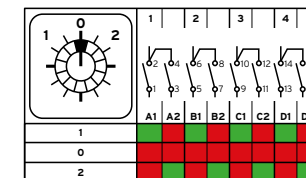
# A, B & C Type - 415 AC



# Enclosed Manual Changeover Switches 4 Pole - Polycarbonate



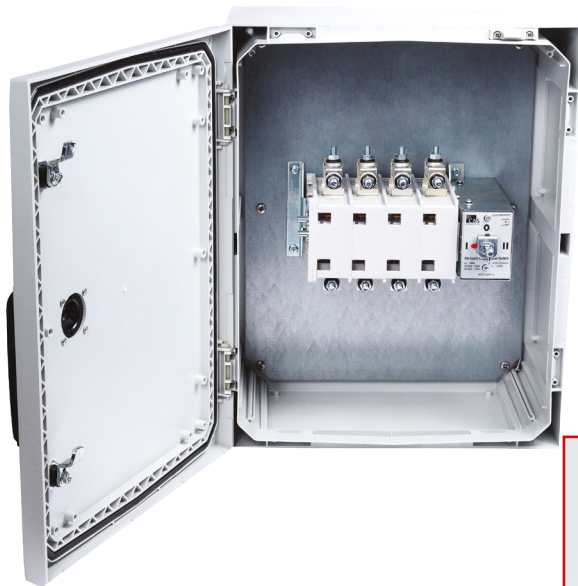
- BS EN 61439-1 (enclosure)
- BS EN 60947-1&3 (switch)
- IP65
- RAL 7035
- 4 pole can be used for single phase
- Certification



Part No.	AC23 (A)	Terminal Capacity (mm)	Dimensions HxWxD (mm)	Depth including switch HxWxD (mm)	Qty
CS204P	20	2.5	126x101x86	120	1
CS404P	40	10	176x 116x101	140	1
CS634P	63	16	176x 116x101	140	1
CS804P	80	25	240x 160x162	200	1
CS1004P	100	35	240x 160x162	200	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

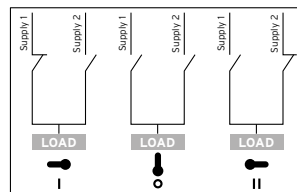
## Enclosed Manual Changeover Switches 4 Pole - Polycarbonate



- BS EN 62208 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- IK10
- RAL 7035
- UL508 UV resistance
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- See page 74 for Auxiliary contacts



Close up of the switch handle.



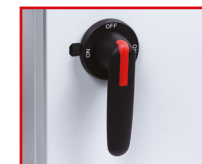
Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque (Nm)	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
PC160MC	160	M8x20	15-22	800x600x300	351	1
PC200MC	200	M10x30	15-22	800x600x300	351	1
PC250MC	250	M10x30	15-22	800x600x300	351	1
PC315MC	315	M10x30	15-22	800x600x300	351	1
PC400MC	400	M10x30	30-44	800x600x300	464	1

New and Improved Sizing for 2023 - More sizes available on request

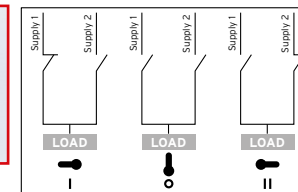
## Enclosed Manual Changeover Switches 4 Pole - Mild Steel



- BS EN 61439-1 (enclosure)
- BS EN 60947-3 (switch)
- IP65 (when fully fitted)
- RAL 7035
- Defeatable handle accepts 3 padlocks
- Shrouded Terminals
- Bottom entry gland plate
- Extended range up to 2500A available
- See page 74 for Auxiliary contacts



Close up of the change over switch handle.



Part No.	Current AC23-A (A)	Terminal Bolt Size (mm)	Tightening Torque	Dimensions HxWxD (mm)	Depth Including Switch (mm)	Qty
MS160MC	160	M8x20	30-44 Nm	600x600x300	351	1
MS200MC	200	M8x25	30-44 Nm	600x600x300	351	1
MS250MC	250	M8x25	30-44 Nm	600x600x300	351	1
MS315MC	315	M8x25	30-44 Nm	600x600x300	351	1
MS400MC	400	M10x25	30-44 Nm	600x600x400	451	1
MS400MC-L	400	M10x25	30-44 Nm	1000x600x400	451	1
MS630MC	630	M12x40	50-75 Nm	1000x600x400	464	1
MS630MC-L	630	M12x40	50-75 Nm	1200x800x400	464	1
MS800MC	800	M12x40	50-75 Nm	1000x600x400	464	1
MS800MC-L	800	M12x40	50-75 Nm	1200x800x400	464	1
MS1250MC	1250	2 x M12x50	50-75 Nm	1000x600x400	464	1
MS1250MC-L	1250	2 x M12x50	50-75 Nm	1200x800x400	464	1
MS1800MC	1800	2 x M12x50	50-75 Nm	1000x600x400	464	1
MS1800MC-L	1800	2 x M12x50	50-75 Nm	1200x800x400	464	1

New and Improved Sizing for 2023 - More sizes available on request

## Surge Protection

NEW

Any surge protection system must be able to withstand the discharged current and provide a Ures level (residual voltage) lower than the Ue peak voltage that the equipment can withstand. With most surge protection devices it is not possible to achieve this with just one SPD, especially because the intensity of the surge is not known, and because of the induction of overvoltages when conductors exceed 10m.

## Classification of Protectors

**BLACK** - Protection -  
Direct lightning currents (Class I test)

**RED** - Protection -  
Indirect lightning effects (Class II test)

Discount structure on these items differs to the standard discount used throughout this catalogue.

## Type 1 + 2 - 1P+N, 275V AC



50kA

Part No.	Description	Module No.	Qty
SP12S-1PN/50KA	1P+N, 275V AC 50kA, c/w signaller	2	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 50kA - 12,5kA limp

Certified - TÜV

## Type 1+2 - 3P+N 275AC



100kA

Part No.	Description	Module No.	Qty
SP12S-3PN/100KA	3P+N, 275V AC I <sub>max</sub> 100kA, c/w signaller	8	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 100kA - 12,5kA limp

Certified - TÜV

## Type 1+2 - 3P+N 275AC



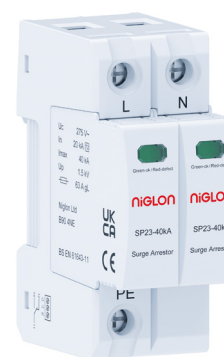
50kA

Part No.	Description	Module No.	Qty
SP12S-3PN/50KA	3P+N, 275V AC 50kA, c/w signaller	4	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 50kA - 12,5kA limp

Certified - TÜV

## Type 2 - 1P+N, 275V AC



40kA

Part No.	Description	Module No.	Qty
SP23S-1PN/40KA	1P+N, 275V AC 40kA, c/w signaller	2	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 40kA

Certified - TÜV

## Type 2 - 1P+N, 275V AC



40kA

Part No.	Description	Module No.	Qty
SP23S-1PN/C40KA	1P+N, 275V AC I <sub>max</sub> 40kA, c/w signaller	1	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> I<sub>max</sub> 40kA - 12,5kA limp

Certified - TÜV

## Type 2 - 3P+N, 275V AC



40kA

Part No.	Description	Module No.	Qty
SP23S-3PN/40KA	3P+N, 275V AC 40kA, c/w signaller	4	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 40kA - 12,5kA limp

Certified - TÜV

## Type 2 - 3P+N, 275V AC



40kA

Part No.	Description	Module No.	Qty
SP23S-3PN/C40KA	3P+N, 275V AC I <sub>max</sub> 40kA, c/w signaller	2	1

Standard of Compliance - EN 61643-11, IEC 61643-11  
Earth Type - TNS  
Max Discharge Current - Max withstand by pole at 8/20μs I<sub>max</sub> 40kA

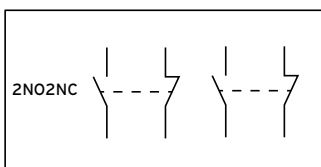
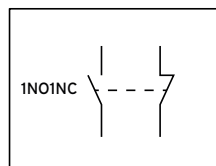
Certified - TÜV



## Auxiliary Contacts



- 10A AC1 rated
- For remote signalling and control
- **Order with the main switch - supplied fitted**



For Use With Switchfuses

Part No.	Contact Configuration	Compatible with	Qty
063AUX1/1SF	1NO/1NC	32-63A	1
063AUX2/2SF	2NO/2NC	32-63A	1
160AUX1/1SF	1NO/1NC	100-160A	1
160AUX2/2SF	2NO/2NC	100-160A	1
400AUX1/1SF	1NO/1NC	200-400A	1
400AUX2/2SF	2NO/2NC	200-400A	1
800AUX1/1SF	1NO/1NC	630-800A	1
800AUX2/2SF	2NO/2NC	630-800A	1

For Use With Switch Disconnectors

Part No.	Contact Configuration	Compatible with	Qty
063AUX1/1	1NO/1NC	32-63A	1
063AUX2/2	2NO/2NC	32-63A	1
160AUX1/1	1NO/1NC	100-160A	1
160AUX2/2	2NO/2NC	100-160A	1
400AUX1/1	1NO/1NC	200-400A	1
400AUX2/2	2NO/2NC	200-400A	1
800AUX1/1	1NO/1NC	630-800A	1
800AUX2/2	2NO/2NC	630-800A	1

For Use With Manual Changeover Switches

Part No.	Contact Configuration	Compatible with	Qty
160AUX1/1MC	1NO/1NC	160A	1
160AUX2/2MC	2NO/2NC	160A	1
800AUX1/1MC	1NO/1NC	315-800A	1
800AUX2/2MC	2NO/2NC	315-800A	1

## Automatic Transfer Switches - Mild Steel

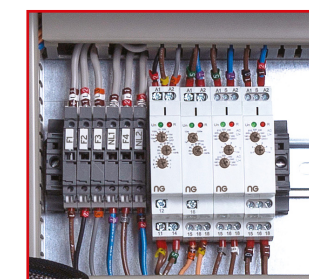


## ATS panels with a built-in maintenance bypass

- BS 8519:2020 states, "changeover devices should conform to BS EN 60947-6-1, and should be based on switch technology (PC classification), rather than circuit breakers or contactors. The ATS should be a single component from the same manufacturer"
- Niglon ATS plus bypass is in accordance with BS8519:2020.
- Single line bypass is for the primary supply only.
- Dual line bypass is for both primary and secondary supplies
- Typically required in critical life support systems and standby power situations calling for safe system maintenance with no power disruptions.

## Standard Mains to Mains

Part No.	Rated Current (A) AC1	Dimensions HxWxD (mm)	Qty
MS40ATS	40	400x500x200	1
MS60ATS	60	400x500x200	1
MS100ATS	100	600x600x250	1
MS135ATS	135	600x600x250	1
MS200ATS	200	800x800x400	1
MS250ATS	250	800x800x400	1
MS450ATS	450	1200x800x400	1
MS750ATS	750	1200x800x400	1



Timer Controls

## Single line bypass

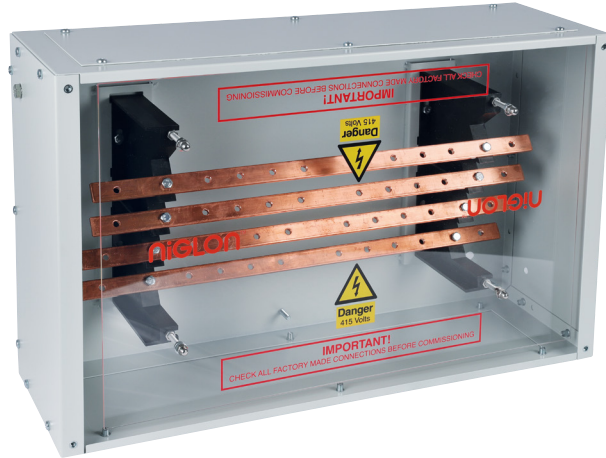
Part No.	Rated Current (A) AC1	Dimensions HxWxD (mm)	Qty
MS40ATS-SL	40	800x500x200	1
MS60ATS-SL	60	800x500x200	1
MS100ATS-SL	100	1200x600x250	1
MS135ATS-SL	135	1200x600x250	1
MS200ATS-SL	200	1900x800x400	1

## Dual line bypass

Part No.	Rated Current (A) AC1	Dimensions HxWxD (mm)	Qty
MS40ATS-DL	40	800x500x200	1
MS60ATS-DL	60	800x500x200	1
MS100ATS-DL	100	1200x600x250	1
MS135ATS-DL	135	1200x600x250	1
MS200ATS-DL	200	1900x800x400	1



## 4 Pole Busbar Chambers



- BS EN 61439-1
- IP31
- Fully assembled and tested
- Mild steel enclosure
- RAL7035
- All panels removeable
- M10 punched holes
- Cable lug fixing



Stepped construction for ease of connection

Part No.	Rated Amperage at 415V (A)	Dimensions HxWxD (mm)	Weight (Kg)	Qty
BBC2024	200	380x600x200	15	1
BBC2034	200	380x900x200	21	1
BBC2044	200	380x1200x200	27	1
BBC2054	200	380x1500x200	36	1
BBC2064	200	380x1800x200	41	1
BBC2094	200	380x2100x200	49	1
BBC4024	400	380x600x200	16	1
BBC4034	400	380x900x200	22	1
BBC4044	400	380x1200x200	28	1
BBC4054	400	380x1500x200	37	1
BBC4064	400	380x1800x200	42	1
BBC4094	400	380x2100x200	50	1
BBC6024	630	380x600x200	19	1
BBC6034	630	380x900x200	27	1
BBC6044	630	380x1200x200	35	1
BBC6054	630	380x1500x200	46	1
BBC6064	630	380x1800x200	53	1
BBC6094	630	380x2100x200	62	1
BBC8024	800	380x600x200	19	1
BBC8034	800	380x900x200	28	1
BBC8044	800	380x1200x200	36	1
BBC8054	800	380x1500x200	47	1
BBC8064	800	380x1800x200	55	1
BBC8094	800	380x2100x200	64	1

Clamps not required simple fixing using crimp lugs (Sold separately)

## Copper Lugs - Belled Entry

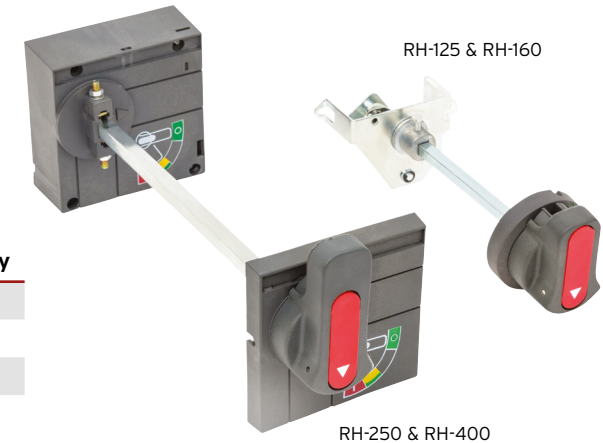
Part No.	Nominal Amperage	Nominal Conductor	Stud Hole	Qty
NT6-8	50	6mm	M8	1
NT10-8	75	10mm	M8	1
NT16-8	100	16mm	M8	1
NT25-8	135	25mm	M8	1
NT35-8	165	35mm	M8	1
NT50-8	200	50mm	M8	1
NT70-8	250	70mm	M8	1
NT95-8	320	95mm	M8	1



## Rotary Handle Kits - For MCCBs

- BS EN 60947-2
- Short pistol grip handle
- Handle padlockable in open position
- Eccentric offset operation
- Certifications -

Part No.	Breaker Size (A)	Qty
RH-125	125	1
RH-160	160	1
RH-250	250	1
RH-400	400	1



## Terminal Covers - For MCCBs

- BS EN 60947-2
- Thermoset ABS
- Clip on mounting
- Certifications -

Part No.	Breaker Size (A)	Pole	Qty
3P125EBK-TC	125	3	1
3P160EBK-TC	160	3	1
3P250EBK-TC	200-250	3	1
3P400EBK-TC	400	3	1
4P125EBK-TC	125	4	1
4P160EBK-TC	160	4	1
4P250EBK-TC	200-250	4	1
4P400EBK-TC	400	4	1



## Enclosed MCCB 4 Pole - Mild Steel



## Enclosure

- BS EN 61439-1, BS EN 62208, BS EN 60529 & BS EN 62262
- RAL7035
- IP30

## 4 Pole MCCB

- BS EN 60947-2
- Adjustable Thermal Protection 0.7 to 1 x In
- Adjustable Magnetic Protection 200A & above
- Certifications -  

Part No.	Rated Current (A)	Thermal Adjustment Range (A)	Breaking Capacity	Dimensions HxWxD (mm)	Qty
MS4MCCB-125	125	88 - 125	25kA	500x400x200	1
MS4MCCB-160	160	112 - 160	25kA	500x400x200	1
MS4MCCB-200	200	140 - 200	35kA	600x400x200	1
MS4MCCB-250	250	175 - 250	35kA	600x400x200	1
MS4MCCB-315	315	221 - 315	35kA	800x600x200	1
MS4MCCB-400	400	280 - 400	35kA	800x600x200	1

More sizes available on request please call us on 0121 711 1990 or send us an email [sales@niglon.co.uk](mailto:sales@niglon.co.uk)

## Enclosed CBR 4 Pole (MCCB + RCD) - Mild Steel



## Enclosure

- BS EN 61439-1, BS EN 62208, BS EN 60529 & BS EN 62262
- RAL7035
- IP30

## 4 Pole CBR

- BS EN 60947-2
- Adjustable Thermal Protection 0.7 to 1 x In
- Adjustable Magnetic Protection 200A & above
- Certifications -  

Part No.	Rated Current (A)	Rated Amperage	Weight (Kg)	Qty
MS4CBR-125TSM	125	80 - 125	13	1
MS4CBR-160TSM	160	100 - 160	14	1
MS4CBR-200TSM	200	130 - 200	15.5	1
MS4CBR-250TSM	250	160 - 250	15.5	1
MS4CBR-400TSM	400	260 - 400	17	1

More sizes available on request please call us on 0121 711 1990 or send us an email [sales@niglon.co.uk](mailto:sales@niglon.co.uk)

## MCCB 3 Pole - Thermal Adjustable &amp; Magnetic Adjustable 200A+





- BS EN 60947-2
- Adjustable Thermal Protection - 0.7 to 1 x In
- Adjustable Magnetic Protection - 200A & above
- See page 74-75 for accessories
- Certifications -  

Part No.	Frame Size	Current Rating (A)	Thermal Adjustment Range (A)	Breaking Capacity	Dimensions HxWxD (mm)	Qty
3MCCB-125	160	125	88 - 125	25kA	160x90x78.5	1
3MCCB-160	160	160	112 - 160	25kA	160x90x78.5	1
3MCCB-200	250	200	140 - 200	35kA	164x105x96.5	1
3MCCB-250	250	250	175 - 250	35kA	164x105x96.5	1
3MCCB-315	400	315	221 - 315	35kA	255x140x98.4	1
3MCCB-400	400	400	280 - 400	35kA	255x140x98.4	1

## MCCB 4 Pole - Thermal Adjustable &amp; Magnetic Adjustable 200A+



- BS EN 60947-2
- Adjustable Thermal Protection - 0.7 to 1 x In
- Adjustable Magnetic Protection - 200A & above
- See page 74-75 for accessories
- Certifications -  

Part No.	Frame Size	Current Rating (A)	Thermal Adjustment Range (A)	Breaking Capacity	Dimensions HxWxD (mm)	Qty
4MCCB-125	160	125	88 - 125	25kA	160x120x78.5	1
4MCCB-160	160	160	112 - 160	25kA	160x120x78.5	1
4MCCB-200	250	200	140 - 200	35kA	164x140x96.5	1
4MCCB-250	250	250	175 - 250	35kA	164x140x96.5	1
4MCCB-315	400	315	221 - 315	35kA	255x184x98.4	1
4MCCB-400	400	400	280 - 400	35kA	255x184x98.4	1



## CBR 4 Pole (MCCB + RCD) - Thermal Adjustable

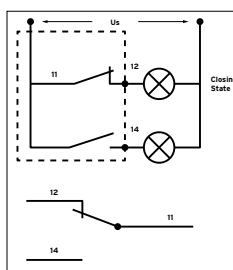
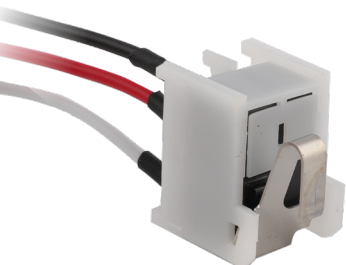


- BS EN 60947-2
- Adjustable Thermal Protection - 0.7 to 1 x In
- Adjustable Residual Current - 100 - 300 - 500mA
- Adjustable time delay - 50 - 500 - 800ms
- See page 74-75 for accessories
- Certifications -

Part No.	Current Rating (A)	Thermal Adjustment Range (A)	Breaking Capacity	Dimensions HxWxD (mm)	Qty
4CBR-125	125	88 - 125	35kA	155x101x70	1
4CBR-160	160	112 - 160	35kA	155x101x70	1
4CBR-200	200	140 - 200	35kA	210x140x113	1
4CBR-250	250	175 - 250	35kA	210x140x113	1
4CBR-400	400	280-400	35kA	255x140x113	1

## Field Fit Accessories

- Auxiliary Contact



- BS EN 60947-2
- Indicates whether the MCCB is open or closed
- Provides a signal to an external device

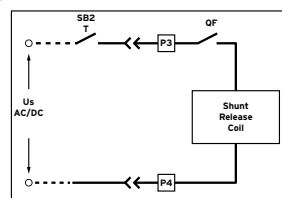
Part No.	For Use With	Qty
FFA-AX160	160A Frame Size	1
FFA-AX250	250A Frame Size	1
FFA-AX400	400A Frame Size	1

## Field Fit Accessories

- Shunt Trip 230VAC



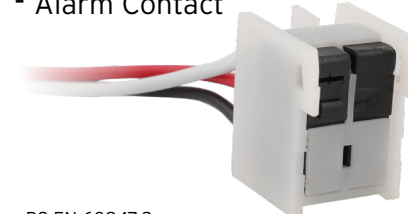
- BS EN 60947-2
- Remote tripping of the MCCB
- Disconnects mains power from MCCB
- Protects against overload and short circuit



Part No.	For Use With	Qty
FFA-ST160	160A Frame Size	1
FFA-ST250	250A Frame Size	1
FFA-ST400	400A Frame Size	1

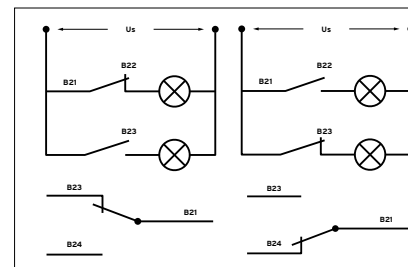
## Field Fit Accessories

- Alarm Contact



- BS EN 60947-2
- Gives indication after the MCCB trips
- Only operates in fault condition

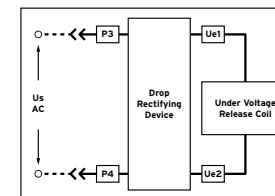
Part No.	For Use With	Qty
FFA-AL160	160A Frame Size	1
FFA-AL250	250A Frame Size	1
FFA-AL400	400A Frame Size	1



## Field Fit Accessories - Undervoltage Trip 230VAC



- BS EN 60947-2
- Switches off the MCCB when rated voltage is <40%
- MCCB will only close if rated voltage is >85%



Part No.	For Use With	Qty
FFA-UT160	160A Frame Size	1
FFA-UT250	250A Frame Size	1
FFA-UT400	400A Frame Size	1

## Straight Extension Kits



- BS EN 60947-2
- Fully rated amperage
- Zn plated copper
- Certifications -

Part No.	Breaker Size (A)	Pole	Qty
3P125EBK	125	3	1
3P160EBK	160	3	1
3P250EBK	200-250	3	1
3P400EBK	400	3	1
4P125EBK	125	4	1
4P160EBK	160	4	1
4P250EBK	200A-250	4	1
4P400EBK	400	4	1

## Spread Extension Kits



- BS EN 60947-2
- Fully rated amperage
- Zn plated copper
- Certifications -

Part No.	Breaker Size (A)	Pole	Qty
3P125SEBK	125	3	1
3P160SEBK	160	3	1
3P250SEBK	200-250	3	1
3P400SEBK	400	3	1
4P125SEBK	125	4	1
4P160SEBK	160	4	1
4P250SEBK	200A-250	4	1
4P400SEBK	400	4	1



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- Contactors
- Direct on Line starters
- Relays
- Timers
- Din rail terminals



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INFORMATION**



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## 24V LED Indicator Lamps



- BS EN 60947-5-1
- 30,000 hours life
- Colour coded terminals
- True colours
- Certification

Part No.	Colour	Qty
PL24-G	Green	1
PL24-R	Red	1
PL24-Y	Yellow	1
PL24-BL	Blue	1
PL24-W	White	1

## LED Sounders



- BS EN 60947-5-1
- 30,000 hours life
- 80Db sounder at 1 metre
- True red colour
- Certification

Part No.	Voltage (V)	Qty
RS24V	24 AC/DC	1
RS240V	230 AC	1

## 230V LED Indicator Lamps



- BS EN 60947-5-1
- 30,000 hours life
- Colour coded terminals
- True colours
- Certification

Part No.	Colour	Qty
PL240-G	Green	1
PL240-R	Red	1
PL240-Y	Yellow	1
PL240-BL	Blue	1
PL240-W	White	1

## USB3.0 Connector Female



- BS EN 60603-7-51
- IP65
- Gold plated contacts
- Metal casing - EMR immune

Part No.	Description	Qty
USBCONN	USB socket to socket	1

## Ethernet Socket Female



- BS EN 60603-7-51
- IP65
- Gold plated contacts
- Metal casing - EMR immune

Part No.	Description	Qty
RJCONN	RJ45 socket to socket	1

## Standard

### - Push-Button Heads



- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Certification

Part No.	Colour	Qty
FPBH-B	Black	1
FPBH-G	Green	1
FPBH-R	Red	1
FPBH-Y	Yellow	1
FPBH-BL	Blue	1
FPBH-W	White	1
FPBH-BW	Black with White Arrow	1

## Neoprene Booted

### - Push-Button Heads



- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Booted Head - For arduous conditions
- Certification

Part No.	Colour	Qty
RPBH-B	Black	1
RPBH-G	Green	1
RPBH-R	Red	1
RPBH-Y	Yellow	1
RPBH-BL	Blue	1
RPBH-W	White	1

## Projecting

### - Push-Button Heads



- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Certification

Part No.	Colour	Qty
PPBH-B	Black	1
PPBH-G	Green	1
PPBH-R	Red	1
PPBH-Y	Yellow	1
PPBH-BL	Blue	1
PPBH-W	White	1

## Mushroom

### - Push-Button Heads



MPBH-RT

MPBH-RK


Part No.	Colour	Release	Qty
MPBH-RK	Red	Key	1
MPBH-RT	Red	Twist	1

- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Size - 40mm
- Key - Ronis 455
- Certification



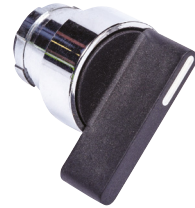
## Standard Operator - Selector Switch Heads





- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Certification  

Part No.	No. of Positions	Action	Qty
SHS02M	2	Maintained	1
SHS03M	3	Maintained	1
SHS02S	2	Spring return	1
SHS03S	3	Spring return to centre	1

## Extended Operator - Selector Switch Heads



- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Certification  

Part No.	No. of Positions	Action	Qty
SHE02M	2	Maintained	1
SHE03M	3	Maintained	1
SHE02S	2	Spring return	1
SHE03S	3	Spring return to centre	1

## Key Operated - Selector Switch Heads



- BS EN 60947-5-1
- IP65
- Bayonet 22.5mm fixing
- Bezel - Metal with neoprene gasket
- Key - 455 Ronis
- Certification  

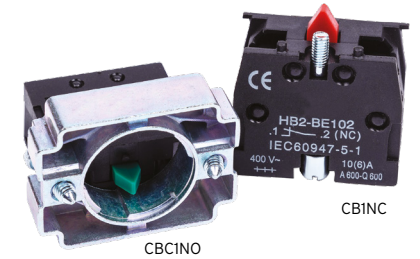
Part No.	No. of Positions	Action	Key Removal Positions	Qty
SHK02M1	2	Maintained	One	1
SHK02M2	2	Maintained	Both	1
SHK02S1	2	Spring return	One	1
SHK02S2	2	Spring return	Both	1
SHK03ML	3	Maintained	Left	1
SHK03MR	3	Maintained	Right	1
SHK03MA	3	Maintained	All	1
SHK03MLR	3	Maintained	Left & right	1
SHK03MC	3	Maintained	Centre	1

## Contacts & Contact Blocks



- BS EN 60947-5-1
- Colour coded - Red (NC) or Green (NO)
- Contact - 10A AC1 at 250V AC
- Contact Blocks - Stackable
- Screws - Angled to hide any dimpling
- Certification  

Part No.	Collar Included	Open or Closed	Qty
CBC1NO	Yes	Open	1
CBC1NC	Yes	Closed	1
CB1NO	No	Open	1
CB1NC	No	Closed	1



## Potentiometer



- BS EN 60393-1
- Turning range 270° to 15°
- Can be used for BMS inputs

Part No.	Colour	Qty
POT01	1kΩ potentiometer	1
POT02	2.2kΩ potentiometer	1
POT05	5kΩ potentiometer	1
POT10	10kΩ potentiometer	1

## Joystick Controller



- BS EN 60947-5-1
- Neoprene shroud for smooth operation
- Spring return and maintained
- Comes with contacts

Part No.	No. of Positions	Action	Qty
JS2POS-M	2	Maintained	1
JS2POS-S	2	Spring return	1
JS4POS-M	4	Maintained	1
JS4POS-S	4	Spring return	1

## 360° Protective cover - for mushroom buttons



- Durable plastic construction

Part No.	Compatible with	Qty
ESPC	MHSSINC	1

## Lockable safety cover



- Clear plastic hinged cover for protection of push buttons
- 22mm diameter

Part No.	Qty
ESSC	1

## Round Emergency Stop Legend



- Material - PVC
- 60mm diameter

Part No.	Qty
RESL	1

## LED Legend 24VAC/DC

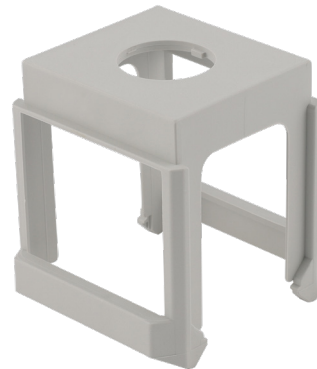


- Visual indication of mushroom button operation
- Ultra bright 360° surround LED
- 60mm diameter

Part No.	LED	Qty
RSLED-FLA	Flashing	1
RSLED-ILL	Illuminated	1

## Din rail adaptor - 22mm devices

- Accepts any 22mm device up to 50mm depth
- Clips to TS35 rail
- Durable plastic construction



Part No.	Qty
DRA	1

## Push-Button Stations



MHSSINC



PPS2GR



MH72/INC

- BS EN 60947-5-1
- IP65
- ABS plastic
- Knockouts - 2x20mm
- Certification

Part No.	Type	Action	Dimensions HxWxD (mm)	Qty
MHSSINC	Mushroom Head	Twist to Release	74x68x38	1
MHSS1NC	Mushroom Head	Key Release	74x68x38	1
PPS1G	1 gang green button	Momentary	74x68x38	1
PPS1K2	1 gang key switch	2 position stay put	74x68x38	1
PPS1K3	1 gang key switch	3 position spring return to centre	74x68x38	1
MH72/INC	1 gang 72mm red E stop	Stay put	74x68x38	1
PPS2GR	2 gang red / green buttons	Momentary	104x68x38	1
PPS3GRG	3 gang green / red / green	Momentary	134x68x38	1

## Plastic Push-Button Stations - Empty



- BS EN 60947-5-1
- IP65
- ABS plastic
- 20mm entries top and bottom
- Certification

Part No.	No. of Gangs	Qty
PPS1	1	1
PPS2	2	1
PPS3	3	1

## Metal Push-Button Stations - Empty



- BS EN 60947-5-1
- IP65
- Accepts metal push button range pages 76-77
- 20mm entries top and bottom
- Certification

Part No.	No. of Gangs	Qty
MPS1	1	1
MPS2	2	1
MPS3	3	1

## Plastic Actuators - for Plastic Push-Button Stations Only

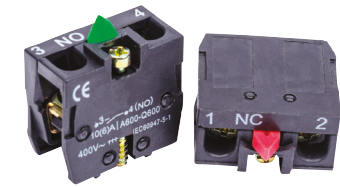
Part No.	Type	Colour	Qty
PSA-B	Flush Head	Black	1
PSA-BW	Flush Head	Black with White Arrow	1
PSA-BL	Flush Head	Blue	1
PSA-GW	Flush Head	Green with White 'I'	1
PSA-RW	Flush Head	Red with White 'O'	1
PSA-W	Flush Head	White	1
PSA-WB	Flush Head	White with Black Arrow	1
PSA-Y	Flush Head	Yellow	1
PSA-MH	40mm Mushroom head	Red	1
PSA-2SS	Selector Switch (2 Positions)	Black	1
PSA-2KS	Key switch maintained (2 Positions)	Black	1
PSA-3KS	Key switch spring return (3 Positions)	Black	1



- BS EN 60947-5-1
- IP65
- Key switches with Ronis 355 key
- Certification

## Contact Blocks - for Plastic Actuators

- BS EN 60947-5-1
- 10A AC1 contact rating
- Colour coded green (NO) and red (NC)
- Certification



Part No.	Open or Closed	Qty
PA-CB1NC	1N/C	1
PA-CB1NO	1N/O	1

## Crane Pendant Station



- BS EN 60947-5-1
- Mechanical interlocks
- ABS reinforced
- Flexible cable shroud
- Strain relief
- Internal cable tray for ease of wiring

Part No.	No. Gangs	Action	Qty
CPSS-3	3 gang	Up/down/estop single speed	1
CPDS-3	3 gang	Up/down/estop double speed	1
CPSS-5	5 gang	Up/down/left/right/estop single speed	1
CPDS-5	5 gang	Up/down/left/right/estop double speed	1

## Metal Clad Foot Switch & Contact

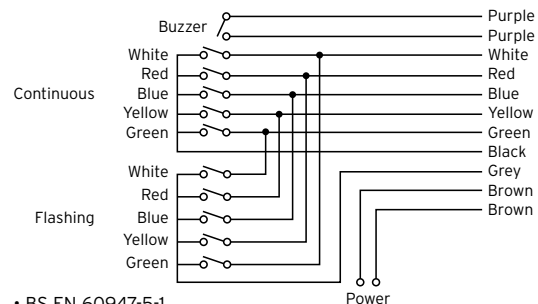


- BS EN 60947-5-1
- Aluminium construction
- 1NO / 1NC momentary switch
- Additional Contact Available
- Protective cowl

Part No.	Qty
SFS1/Y	1
AUX1/1SFS	1



## Multifunction Beacons



- BS EN 60947-5-1
- 55mm Ø
- 5 colours - red/green/yellow/blue/white
- Steady or flashing modes
- All states are user selectable 90Db sounder
- Certification

Part No.	Voltage (V)	Qty
MB12	12 AC/DC	1
MB24	24 AC/DC	1
MB240	220 AC	1



### COLOUR OPTIONS IN ACTION



## Multifunction Beacon - Accessories

- BS EN 60947-5-1
- Construction - Corrosion resistant aluminium
- Simple to fix
- Durable paint finish
- Certification

Part No.	Description	Qty
MBA-AB	Aluminium base	1
MBA-PA	Black pipe adaptor	1
MBA-WB	Adaptable wall support with tube	1



## LED Low Profile Beacon



Part No.	Voltage (V)	Colour	Qty
LPB24/48-R	24/48 AC/DC	Red	1
LPB24/48-G	24/48 AC/DC	Green	1
LPB24/48-Y	24/48 AC/DC	Yellow	1
LPB110/240-R	110/240 AC/DC	Red	1
LPB110/240-G	110/240 AC/DC	Green	1
LPB110/240-Y	110/240 AC/DC	Yellow	1

- IP66
- IK08
- 110mm Ø compact LED beacon
- 2 voltage types - 24/48V and 110/240V
- Multifunction selectable light display: Steady light, Flashing light, Strobe light, Rotating light, Pulsating light
- Certification

## LED Low Profile Beacon - Base

- Choice of base - standard or 32 tone sounder
- 90Db sounder

Part No.	Description	Voltage (V)	Qty
ABASE24/48	Audible Base	24/48V AC/DC	1
ABASE110/240	Audible Base	110/240V AC	1
SBASE	Standard base	-	1



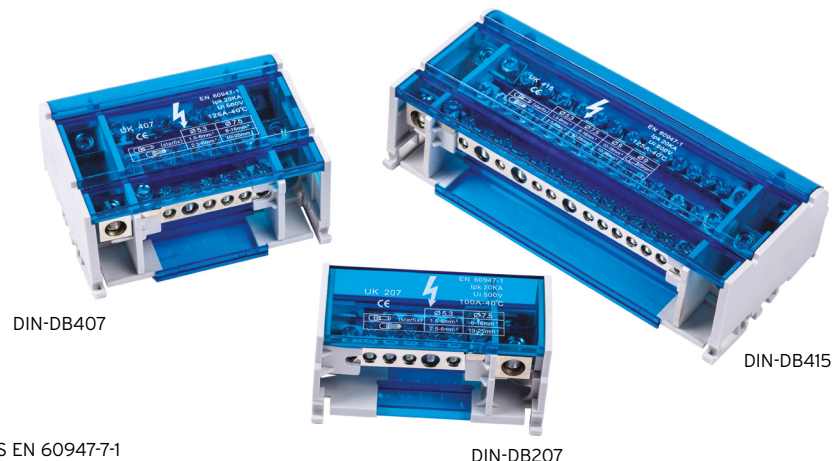
## LED Low Profile Beacon - Accessories

- Corrosion resistant
- Wall mount fixing

Part No.	Description	Qty
WMB-LPB	Wall mount bracket	1



## Power Distribution - Boxes



- BS EN 60947-1
- IP20
- Self extinguishing UL94-V-0
- Certification

Part No.	Rated Amperage (A)	Incoming	Cable size (mm)	Outgoing	Cable size (mm)	Dimensions HxWxD (mm)	Qty
DIN-DB207	100	2 Pole	10-35	6	5x6, 1x25	44x94x50	1
DIN-DB407	125	4 Pole	10-35	6	5x6, 1x25	89x109x50	1
DIN-DB411	100	4 Pole	10-50	10	7x6, 3x25	89x147x50	1
DIN-DB412	160	4 Pole	16-70	11	7x6, 2x35, 1x50	89x170x50	1
DIN-DB415	125	4 Pole	10-50	14	11x6, 3x35	89x182x50	1
DIN-407	125	1 pole	10 to 35	7	16	89x44x50	1

## Power Distribution - Terminal Blocks



- BS EN 60947-1
- IP20
- Self extinguishing UL94-V-0
- Certification

Part No.	Rated Amperage (A)	Cable size (mm)	Dimensions HxWxD (mm)	Qty
DIN-PB125	125	10-35	73x20x44	1
DIN-PB250	250	35-120	100x31x49	1

## Power Distribution - Blocks



- BS EN 60947-1
- IP20
- Self extinguishing UL94-V-0
- Certification

Part No.	Rated Amperage (A)	Cable Size (mm)	Colour	No. of Poles	Dimensions HxWxD (mm)	Qty
DIN-PB125G1	125	2.5 - 50	Grey	1	42.3x49x18	1
DIN-PB125B1	125	2.5 - 50	Blue	1	42.3x49x18	1
DIN-PB125PE1	125	2.5 - 50	Earth	1	42.3x49x18	1
DIN-PB125G3	125	2.5 - 50	Grey	3	42.3x49x49.6	1

## Panel Thermostats



- IP20
- Bimetallic strip element
- Normally open for cooling
- Normally closed for heating
- Self extinguishing UL94-V-0



Part No.	Operating Temp. (°C)	Action	Qty
CT60NO	0 - 60	NO	1
CT60NC	0 - 60	NC	1
CT60DUAL	0 - 60	NO and NC	1

## Panel Hygrostat



- IP20
- Bimetallic strip element
- Adjustable between 35% and 90% humidity
- Self extinguishing UL94-V-0

Part No.	Adjustment RH	Action	Qty
CT60HYD	35 - 90 %	NO	1

## Panel Heaters - Passive Heaters



CH30W



CH100W

- IP20
- Passive heaters have self adjusting PTC elements
- Fan heaters have Nickel/Chromium elements



Part No.	Voltage (V AC)	Wattage (W)	Qty
CH15W	230	15	1
CH30W	230	30	1
CH45W	230	45	1
CH60W	230	60	1
CH75W	230	75	1
CH100W	230	100	1
CH150W	230	150	1

## Panel Heaters - Compact Fan Heaters



CH250WC



CH350WC

- IP20
- Fan heaters have Nickel/Chromium elements



Part No.	Voltage (V AC)	Wattage (W)	Air Movement at 50Hz (m³/h)	Qty
CH250WC	230	250	45	1
CH350WC	230	350	45	1

## Fans - with Filters



- Up to IP55 ingress protection
- Self extinguishing UL94-V-0
- RAL 7035
- Certification



Part No.	Voltage (V AC)	Wattage (W)	Air Movement at 50Hz Free Blowing (m³/h)	Air Movement at 50Hz with Filter (m³/h)	Dimensions HxWxD (mm)	Qty
CF55145	230	0.12	55	43	145x 145x71	1
CF55250	230	0.25	105	71	250x 250x71	1
CF55320	230	0.29	230	170	320x 320x71	1

## Exit Filters



- Up to IP55 ingress protection
- Self extinguishing UL94-V-0
- RAL 7035
- Certification



Part No.	Dimensions HxWxD (mm)	Qty
CFX145	145x 145x28	1
CFX250	250x 250x28	1
CFX320	320x 320x28	1



## Power Supplies



- BS EN 60950-1, BS EN 61000-3-2 (2014)
- Universal input 90 - 264VAC 50/60Hz
- Din rail mount
- Total protection - short circuit, over/under voltage, over temperature
- Output voltage adjustment
- LED indication for DC power and DC low
- Certification

Part No.	Voltage (V DC)	Wattage (W)	Dimensions HxWxD (mm)	Qty
PS15-12	12	15	95x22.5x108	1
PS15-24	24	15	95x22.5x108	1
PS30-12	12	30	95x36x108	1
PS30-24	24	30	95x36x108	1
PS50-24	24	50	125x30x130	1
PS70-12	12	70	125x30x130	1
PS70-24	24	70	125x30x130	1
PS120-24	24	120	125x40x130	1
PS240-24	24	240	125x60x130	1

## Panel Transformers



PT50/230-24



PT150/230-110

- BS EN 61558
- Double wound isolating
- IP20 terminal cover
- Easy fix slotted frames

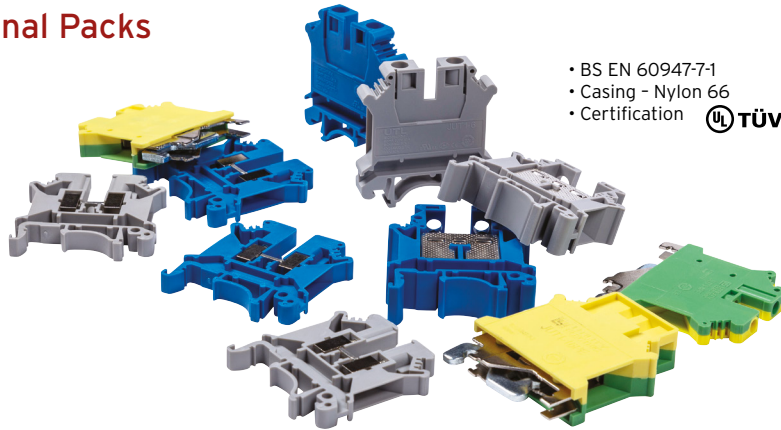
### 24V


Part No.	VA Rating	Primary (V)	Secondary (V)	Qty
PT50/400-24	50	400	24	1
PT50/230-24	50	230	24	1
PT100/400-24	100	400	24	1
PT100/230-24	100	230	24	1
PT150/400-24	150	400	24	1
PT150/230-24	150	230	24	1
PT250/400-24	250	400	24	1
PT250/230-24	250	230	24	1

### 110V

Part No.	VA Rating	Primary (V)	Secondary (V)	Qty
PT50/400-110	50	400	110	1
PT50/230-110	50	230	110	1
PT100/400-110	100	400	110	1
PT100/230-110	100	230	110	1
PT150/400-110	150	400	110	1
PT150/230-110	150	230	110	1
PT250/400-110	250	400	110	1
PT250/230-110	250	230	110	1
PT500/400-110	500	400	110	1
PT500/230-110	500	230	110	1

## DIN Rail Terminal Packs

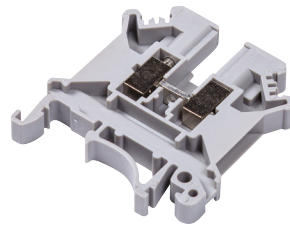



- BS EN 60947-7-1
- Casing - Nylon 66
- Certification 

Part No.	Contains	Qty
DIN-PK04	10x 4mm grey, 2x 4mm blue, 1x 4mm earth, 2x end plate, 2x end stop, 1x blank marker strip	1
DIN-PK04A	10x 4mm grey, 1x end plate, 2x end stop, 1x blank marker strip	1
DIN-PK06	3x 6mm grey, 1x 6mm blue, 1x 6mm earth, 1x end plate, 2x end stop, 1x blank marker strip	1
DIN-PK16	3x 16mm grey, 1x 16mm blue, 1x 16mm earth, 1x end plate, 2x end stop, 1x blank marker strip	1


## DIN Rail - Screw Terminals Grey

Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN02GY	32	DIN02M	DIN10EPGY	47x 5.2x42.5	1
DIN04GY	41	DIN04M	DIN10EPGY	47x 6.2x42.5	1
DIN06GY	57	DIN06M	DIN10EPGY	47x 8.2x42.5	1
DIN10GY	76	DIN10M	DIN10EPGY	47x 10.2x42.5	1
DIN16GY	101	DIN10M	DIN16EPGY	54x 12.2x42.5	1
DIN35GY	150	DIN10M	Not required	62x 15.2x50	1
DIN50GY	150	DIN10M	Not required	77.2x 20.2x71.3	1

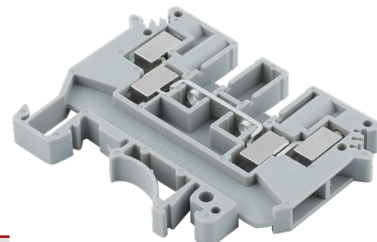


- BS EN 60947-7-1
- Casing - Nylon 66
- Certification 


## DIN Rail - Screw Terminals Grey 4mm Double

- BS EN 60947-7-1
- Casing - Nylon 66
- Accepts 5x20mm and 5x25mm fuselinks
- Certification 

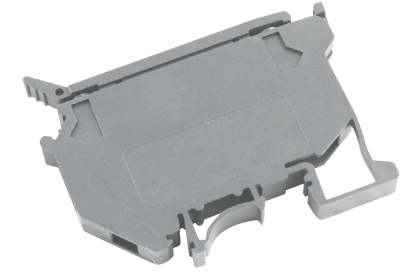
Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN04DGY	41	DIN04M	DIN04DEP	63.5x6.2x47	1



## DIN Rail - Screw Terminals Grey 4mm Fused

- BS EN 60947-7-1
- Casing - Nylon 66
- 5x20 or 5x25 fuselink
- Certification 

Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN04FUSEGY	41	DIN04M	DIN04FEP	47x6.2x42.5	1



## DIN Rail - Screw Terminals Blue

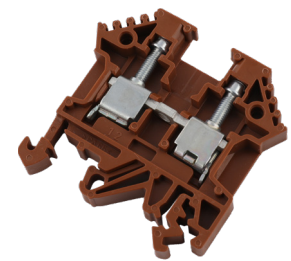
Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN02BU	32	DIN02M	DIN10EPBU	47x5.2x42.5	1
DIN04BU	41	DIN04M	DIN10EPBU	47x6.2x42.5	1
DIN06BU	57	DIN06M	DIN10EPBU	47x8.2x42.5	1
DIN10BU	76	DIN10M	DIN10EPBU	47x10.2x42.5	1
DIN16BU	101	DIN10M	DIN16EPBU	54x12.2x42.5	1
DIN35BU	150	DIN10M	Not required	62x15.2x50	1
DIN50BU	150	DIN10M	Not required	77.2x20.2x71.3	1



- BS EN 60947-7-1
- Casing - Nylon 66
- Certification 

## DIN Rail - Screw Terminals Brown

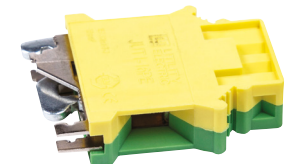
Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN02BR	32	DIN02M	DIN16EPBR	47x5.2x42.5	1
DIN04BR	41	DIN04M	DIN16EPBR	47x6.2x42.5	1
DIN06BR	57	DIN06M	DIN16EPBR	47x8.2x42.5	1
DIN10BR	76	DIN10M	DIN16EPBR	47x10.2x42.5	1




- BS EN 60947-7-1
- Casing - Nylon 66
- Certification 

## DIN Rail - Screw Terminals Earth

Part No.	Amperage (A)	Marker	Dimensions HxWxD (mm)	Qty
DIN04PE	41	DIN04M	42.5x 6.2x47	1
DIN06PE	57	DIN06M	42.5x8.2x47	1
DIN10PE	76	DIN10M	42.5x10.2x47	1
DIN16PE	101	DIN10M	42.5x12.2x54	1
DIN35PE	150	DIN10M	50x15.2x62	1
DIN50PE	150	DIN10M	71.3x20.2x77	1



- BS EN 60947-7-1
- Casing - Nylon 66
- Certification 

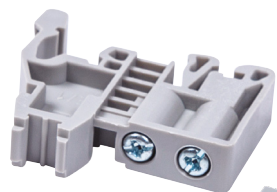
## DIN Rail - Screw Terminals End Plates



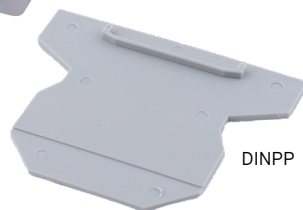
- BS EN 60947-7-1
- Casing - Nylon 66
- Certification TÜV

Part No.	Compatible with	Qty
DIN10EPGY	Grey 2.5 to 10mm	1
DIN10EPBU	Blue 2.5 to 10mm	1
DIN10EPBR	Brown 2.5 to 10mm	1
DIN16EPGY	Grey 16mm	1
DIN16EPBU	Blue 16mm	1
DIN04DEP	4mm Double Terminal	1
DIN04FEP	4mm Fuse Terminal	1

## DIN Rail - Accessories



DINSTOP

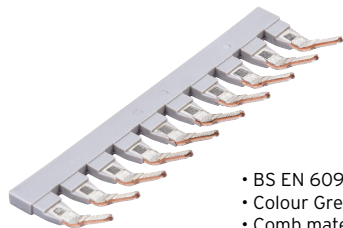


DINPP

- BS EN 60947-7-1
- Casing - Nylon 66
- Colour Grey
- Certification TÜV

Part No.	Description	Qty
DINPP	Partition Plate	1
DINSTOP	End stop	1

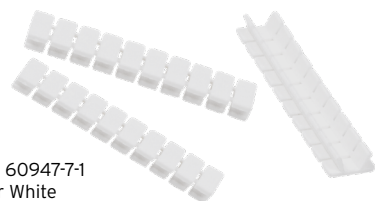
## DIN Rail - Screw Terminal Combs



- BS EN 60947-7-1
- Colour Grey
- Comb material - Zn plated brass

Part No.	Compatible with	Qty
DIN0210	2.5mm Screw Terminal	1
DIN0410	4mm Screw Terminal	1
DIN0610	6mm Screw Terminal	1
DIN1010	10mm Screw Terminal	1

## DIN Rail - Markers for Screw & Screwless Terminals



- BS EN 60947-7-1
- Colour White
- ABS plastic

Part No.	Size	Qty
DIN02M	2.5mm	1 (1x10)
DIN04M	4mm	1 (1x10)
DIN06M	6mm	1 (1x10)
DIN10M	10 - 240mm	1 (1x10)

## DIN Rail - Top Hat Din Rail

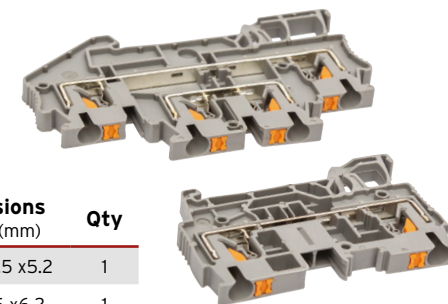


- Galvanised
- Zinc plated
- 7.5mm depth
- M6 ø slotted

Part No.	Description	Length	Slot	Qty
TS35-1M	35mm top hat din rail	1 metre	5mm	Pack of 10

## DIN Rail - Screwless Terminals Grey

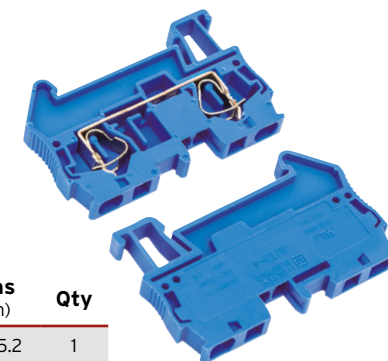
- BS EN 60947-7-1
- Casing - Nylon 66
- Certification TÜV



Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN02PGY	32	DIN02M	DIN02PEP	48.5 x36.5 x5.2	1
DIN04PGY	41	DIN04M	DIN04PEP	56 x36.5 x6.2	1
DIN06PGY	57	DIN06M	DIN06PEP	65.5 x43.5 x8.2	1
DIN10PGY	65	DIN10M	DIN10PEP	71.4 x50.3 x10.2	1
DIN16PGY	85	DIN10M	DIN16PEP	80.4 x51.1 x12.2	1
DIN35PGY	115	DIN10M	DIN35PEP	99.8 x59.1 x16.2	1

## DIN Rail - Screwless Terminals Blue

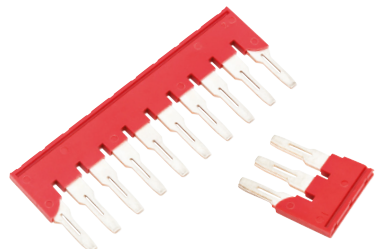
- BS EN 60947-7-1
- Casing - Nylon 66
- Certification TÜV



Part No.	Amperage (A)	Marker	Compatible End Plate	Dimensions HxWxD (mm)	Qty
DIN02PBU	32	DIN02M	DIN02PEP-B	48.5 x36.5 x5.2	1
DIN04PBU	41	DIN04M	DIN04PEP-B	56 x36.5 x6.2	1
DIN06PBU	57	DIN06M	DIN06PEP-B	65.5 x43.5 x8.2	1
DIN10PBU	65	DIN10M	DIN10PEP-B	71.4 x50.3 x10.2	1
DIN16PBU	85	DIN10M	DIN16PEP-B	80.4 x51.1 x12.2	1
DIN35PBU	115	DIN10M	DIN35PEP-B	99.8 x59.1 x16.2	1



## DIN Rail - Combs for Screwless Terminals Red



- BS EN 60947-7-1
- Comb material - Zn plated brass
- Insertion - Top

Part No.	Ways	Compatible with	Qty
DIN02P3W	3	2.5mm	1
DIN02P10W	10	2.5mm	1
DIN04P3W	3	4mm	1
DIN04P10W	10	4mm	1
DIN06P3W	3	6mm	1
DIN06P10W	10	6mm	1
DIN10P10W	10	10mm	1
DIN16P10W	10	16mm	1

## DIN Rail - Screwless Terminals End Plates

- BS EN 60947-7-1
- Casing - Nylon 66
- Certification - TÜV



Part No.	Colour	Size	Qty
DIN02PEP	Grey	2.5mm	1
DIN04PEP	Grey	4mm	1
DIN06PEP	Grey	6mm	1
DIN10PEP	Grey	10mm	1
DIN16PEP	Grey	16mm	1
DIN35PEP	Grey	35mm	1
DIN02PEP-B	Blue	2.5mm	1
DIN04PEP-B	Blue	4mm	1
DIN06PEP-B	Blue	6mm	1
DIN10PEP-B	Blue	10mm	1
DIN16PEP-B	Blue	16mm	1
DIN35PEP-B	Blue	35mm	1

## IP44 Panel Mounted Sockets - Angled



57201



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 56x56mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
57201	16A	110	2P+E	70x70	47	38	1
57204	16A	240	2P+E	70x70	47	38	1
57208	16A	415	3P+E	70x70	47	38	1
57209	16A	415	3P+E+N	70x70	49	38	1
57216	32A	240	2P+E	70x70	54	48	1
57217	32A	415	3P+E+N	70x70	54	48	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP67 Panel Mounted Sockets - Angled



17283



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 80x80mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
17281	63A	240	2P+E	100x100	74	80	1
17282	63A	415	3P+E	100x100	74	80	1
17283	63A	415	3P+E+N	100x100	74	80	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP44 Panel Mounted Sockets - Straight



57481



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 56x56mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
57480	16A	110	2P+E	70x70	55	21	1
57481	16A	240	2P+E	70x70	55	21	1
57482	16A	415	3P+E	70x70	55	21	1
57483	16A	415	3P+E+N	70x70	55	21	1
57484	32A	240	2P+E	70x70	67	23	1
57485	32A	415	3P+E+N	70x70	67	23	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP67 Panel Mounted Sockets - Straight



17826



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 80x80mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
17824	63A	240	2P+E	100x100	80	50	1
17825	63A	415	3P+E	100x100	80	50	1
17826	63A	415	3P+E+N	100x100	80	50	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP44 Surface Mounted Appliance Inlets - Angled



21504



- BS EN 60309-1&2
- IP44
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 56x56mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxWxD (mm)	Qty
21501	16A	110	2P+E	120x70.5x76	1
21504	16A	240	2P+E	120x70.5x76	1
21508	16A	415	3P+E	121x70.5x76	1
21509	16A	415	3P+E+N	122x70.5x76	1
21516	32A	240	2P+E	131x70.5x76	1
21521	32A	415	3P+E+N	132x70.5x76	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP67 Surface Mounted Appliance Inlets - Angled



17583



- BS EN 60309-1&2
- IP67 Housing Material - PC/ABS
- Contacts - Copper Zinc alloy
- Fixing Centres - 80x80mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxWxD (mm)	Qty
17578	63A	240	2P+E	271x118x175	1
17582	63A	415	3P+E	271x118x175	1
17583	63A	415	3P+E+N	271x118x175	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP44 Panel Mounted Appliance Inlets - Straight



57489



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 56x56mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
57486	16A	110	2P+E	70x70	42	21	1
57487	16A	240	2P+E	70x70	42	21	1
57488	16A	415	3P+E	70x70	42	21	1
57489	16A	415	3P+E+N	70x70	42	20	1
57490	32A	240	2P+E	70x70	51	21	1
57491	32A	240	3P+E+N	70x70	51	21	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP67 Panel Mounted Appliance Inlets - Straight



17289



- BS EN 60309-1&2
- Material - PA6
- Contacts - Copper Zinc alloy
- Fixing Centres - 80x80mm
- Full certification - See page 100

Part No.	Amps (A)	Volts (V)	Pin Configuration	Dimensions HxW (mm)	External Depth (mm)	Internal Depth (mm)	Qty
17287	63A	240	2P+E	100x100	109	8	1
17288	63A	415	3P+E	100x100	109	8	1
17289	63A	415	3P+E+N	100x100	109	8	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## IP20 Diagnostic Plugs with LED Display



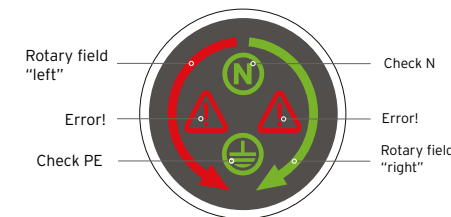
- EN60309-2
- Rating - 400V
- Material - PA6
- Contacts - Copper Zinc alloy
- IP20
- Full certification - See page 100



Part No.	Amps (A)	Volts (V)	Pin Configuration	Qty
CEED16	16A	415	3P+E+N	1
CEED32	32A	415	3P+E+N	1

For temporary testing period only. Not meant for permanent use!

Suitable for electricians in industrial work and construction sites. Plugs are supplied with a LED display and diagnostics, which checks the following - Rotary Field, Phase Conductor, Neutral Conductor & Protective Earth Conductor.



Read out dial on the reverse of plug



Display	Rotary field "left"	Rotary field "right"	Error!	Check PE	Rotary field "left"	Rotary field "right"	Error!	Check PE
L1	✓	✓	✓	✓	L3	L3	L3	L3
L2	✓	✓	✓	✓	L2	L2	L2	L2
L3	✓	✓	✓	✓	L1	L1	L1	L1
N	✓	✓	⚠	⚠	✓	✓	⚠	⚠
PE	✓	⚠	✓	⚠	✓	⚠	✓	⚠

Simultaneous illumination indicated of rotating field left and rotating field right (Or in combination with any other symbol) indicates an error which has to be checked by qualified electrician.

Discount structure on these items differs to the standard discount used throughout this catalogue.



## 16A Distribution Boxes - Thermoplastic



- BS EN 62208 & BS EN 61439
- IP44
- Material - Shock Resistant Polyamide
- Wired ready for use
- Housing colour - Black
- RCD & MCB Protected -  



Part No.	Incoming Supply	Outgoing Supply	Incoming Voltage (V)	Outgoing Voltage (V)	Dimensions HxWxD (mm)	Qty
TDISTRO1	2m cable + Plug 16A 5pin red 415V	2x socket 16A 5pin 415V, 1x socket 16A 3pin 230V, 4x socket 13A 3pin 230V.	415	415/230	197x197x200	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

## 32A Distribution Boxes - Thermoplastic

- BS EN 62208 & BS EN 61439
- IP44
- Material - Shock Resistant Polyamide
- Wired ready for use
- Housing colour - Black
- RCD & MCB Protected -  



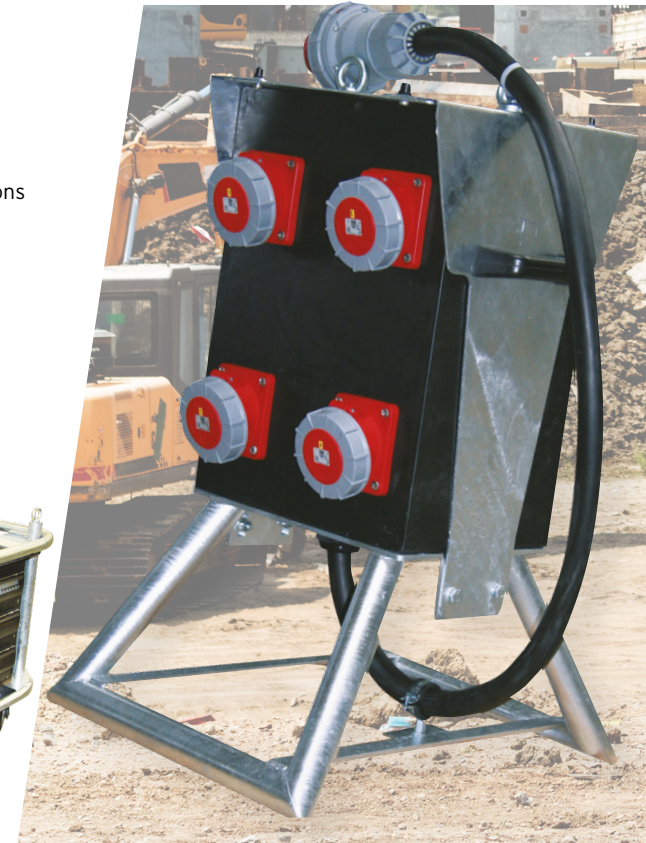
Part No.	Incoming Supply	Outgoing Supply	Incoming Voltage (V)	Outgoing Voltage (V)	Dimensions HxWxD (mm)	Qty
TDISTRO2	2m cable + Plug 32A 5pin 415V	1x socket 32A 5pin 415V, 4x socket 16A 3pin 230V, 2x socket 13A 3 pin 230V	415	415/230	197x197x200	1
TDISTRO3	2m cable + Plug 32A 5pin 415V	1x socket 32A 5pin 415V, 2x socket 16A 5pin 415V, 3x socket 16A 3pin blue 230V, 3x socket 13A 3 pin 230V.	415	415/230	200x300x200	1

Discount structure on these items differs to the standard discount used throughout this catalogue.

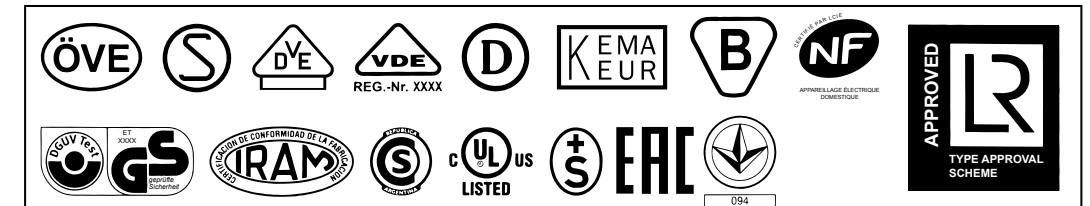
## Custom Distribution Enclosures

Static to mobile solutions manufactured to your specific requirements:

- Rubber and thermoplastic casings
- Wall mount or mobile units
- Incomer and outgoing ways to match specifications
- Energy pillars



## Socket and Inlet Certifications



# CAN'T FIND WHAT YOU'RE LOOKING FOR?

For more information about the **extensive range of Industrial Plugs and Sockets** Niglon can provide please contact our sales team  
**0121 711 1990 | sales@niglon.co.uk**

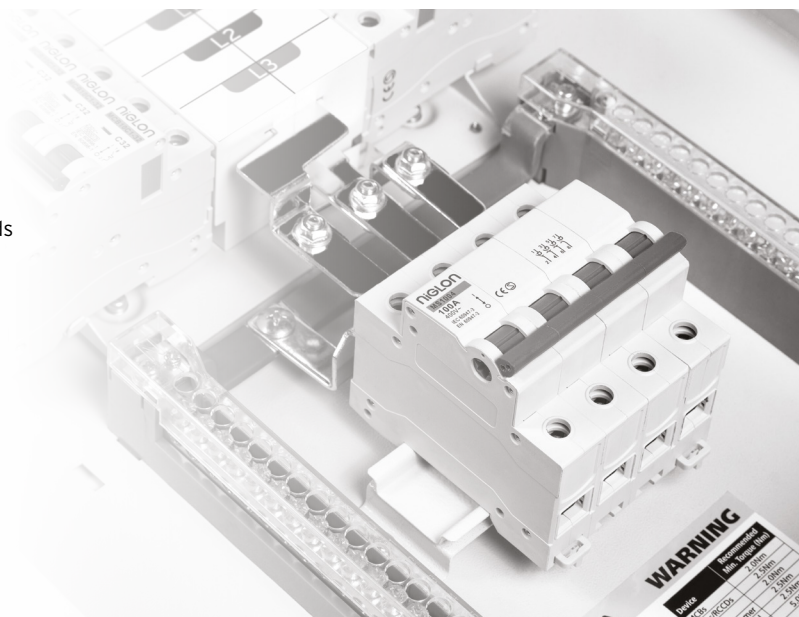
# BESPOKE SERVICE



More information

## MCCB Panel Boards

- Extensive range of LV switchboards & MCCB Panels
- Sub and main power distribution
- Up to 800A rated
- Up to 12 way TPN outgoing
- Combine single and three phase
- Optional surge protection
- Optional metering



## Laser Cutting

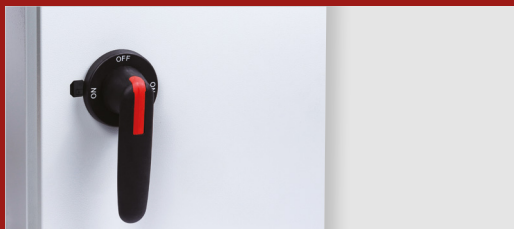


Allows shrouding to be cut, legend plates to be made, labels and engraving to be applied to the enclosure.

## Door & lock changes available

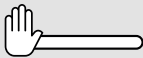
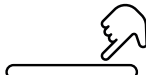

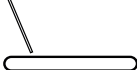
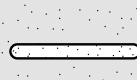
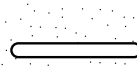


## Enclosure sizes & switch mounting options



# Ingress Protection - IP Classification



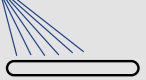

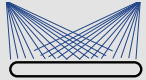
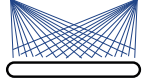

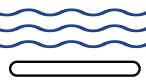
## 1<sup>st</sup> Digit: Solid Object Penetration

1	Protected against solid objects of 50mm diameter and greater (Hands)	
2	Protected against solid objects of 12.5mm diameter and greater (Fingers)	
3	Protected against solid objects of 2.5mm diameter and greater (Tools & small wires)	
4	Protected against solid objects of 1mm diameter and greater. (Tools & small wires)	
5	Dust-protected. Limited ingress of dust permitted. Will not interfere with the operation	
6	Completely protected against dust	

### Example IP65

Completely protected against dust and protected against low pressure jets of water

## 2<sup>nd</sup> Digit: Water Ingress

1	Protected against vertically falling water. Limited ingress permitted	
2	Protected against vertically falling water drops with enclosure tilted up to 15° from the vertical	
3	Protected against water spray up to 60° from the vertical	
4	Protected against water spray from any direction	
5	Protected against low pressure, jets of water	
6	Protected against powerful jets of water	
7	Protected against the effects of temporary immersion (30 minutes) in water between 15cm & 1m deep	
8	Protected against the effects of permanent immersion in water up to 4m deep	

Ratings with an X means that there is no data available to provide a protection rating.  
Ratings with a 0 means no protection against contact and ingress.

## Impact Protection IK Classification

IK Rating	Height (cm)	Energy Impact (J)
01	7.5	0.15
02	10	0.20
03	1.5	0.35
04	25	0.50
05	35	0.70
06	20	1
07	40	2
08	29.5	5
09	20	10
10	40	20

## Certificates

Should you need proof of any certification for any product within our Control & Automation range, please call us on 0121 711 1990 or drop us an email: [sales@niglon.co.uk](mailto:sales@niglon.co.uk).

## Technical Support



For any questions or assistance, our technical department is ready to help. They can advise on product selection, custom orders, and product usage. Reach them at 0121 711 1990.



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160AUX1/1SF	68	3MCO/4024	31	3SC85240	24	57217	99
160AUX2/2	68	3MCO/63230	31	400AUX1/1	68	57480	100
160AUX2/2MC	68	3MCO/6324	31	400AUX1/1SF	68	57481	100
160AUX2/2SF	68	3MC4/40230	31	400AUX2/2	68	57482	100
17281	99	3MC4/4024	31	400AUX2/2SF	68	57483	100
17282	99	3MC4/63230	31	4CBR-125	74	57484	100
17283	99	3MC4/6324	31	4CBR-160	74	57485	100
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1MC0/2524	31	3PI60EBK-TC	71	4MC1224	22	800AUX2/2	68
1MC1/20230	31	3PI60SEBK	75	4MCCB-125	73	800AUX2/2MC	68
1MC1/2024	31	3P250EBK	75	4MCCB-160	73	800AUX2/2SF	68
1MC2/20230	31	3P250EBK-TC	71	4MCCB-200	73	8PI0120	36
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1PI2115	39	3P400EBK	75	4MCCB-315	73	8PI024	36
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21516	101	3SCI824D	24	4P250SEBK	75	ABASE110/240	87
21521	101	3SCI8415	24	4P400EBK	75	ABASE24/48	87
2MCO/25230	31	3SC22110	24	4P400EBK-TC	71	AUX0/2FM-MINI	23
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## TERMS & CONDITIONS

The customer's attention is drawn in particular to the provisions of clause 10.

### 1. Interpretation

1.1 Definitions. In these Conditions, the following definitions apply:

**Business Day:** a day (other than a Saturday, Sunday or public holiday in England) when banks in London are open for business.

**Conditions:** the terms and conditions set out in this document as amended from time to time in accordance with clause 12.2.

**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.

**Force Majeure Event:** has the meaning given in clause 11.

**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 form.

**Specification:** any specification for the Goods contained or referred to in the Supplier's catalogue, which has been specifically agreed in writing between the Supplier and the Customer in the manner referred to in clause 2.5 or as otherwise provided to the Customer.

**Supplier:** Niglon Limited (registered in England and Wales with company number 00891753).

1.2 Construction. In these Conditions, the following rules apply:

- A person includes a natural person, corporate or unincorporated body (whether or not having separate legal personality).
- A reference to a party includes its personal representatives, successors or permitted assigns.
- A reference to a statute or statutory provision is a reference to such statute or provision as amended or re-enacted. A reference to a statute or statutory provision includes any subordinate legislation made under that statute or statutory provision, as amended or re-enacted.
- 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.
- A reference to writing or written includes faxes and emails.

### 2. Basis of Contract

- 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.
- The Order constitutes an offer by the Customer to purchase the Goods in accordance with these Conditions. The Customer is responsible for ensuring that the terms of the Order and any applicable agreed Specification are complete and accurate.
- The Order shall only be deemed to be accepted when the Supplier issues a written acceptance of the Order, at which point the Contract shall come into existence.
- The Contract constitutes the entire agreement between the parties. The Customer acknowledges that it has not relied on any statement, promise, representation, assurance or warranty made or given by or on behalf of the Supplier which is not set out in the Contract.
- Any samples, drawings, descriptive matter, or advertising produced by the Supplier and any descriptions or illustrations contained in the Supplier's catalogues or brochures are produced for the sole purpose of giving an approximate idea of the Goods described in them. They shall not form part of the Contract or have any contractual force.
- All product information relating to the Goods description, specification or otherwise, must be verified with the Supplier's sales department before placing the Order, or specifically agreed in writing between the Supplier and the Customer, and specifically set out or referred to, in the Order. The Supplier may discontinue or replace at any time without notice any Goods which appear in its catalogues, brochures or within any online presence.
- A quotation for the Goods given by the Supplier shall not constitute an offer. A quotation shall only be valid for a period of 20 Business Days from its date of issue.

### 3. Goods

- The Goods are described in the Supplier's catalogue.
- The Supplier reserves the right to amend the specification of the Goods if required by any applicable statutory or regulatory requirements.
- The Customer shall quote product numbers and finish required in its Order and only in wholesale quantities (i.e. not less than a standard pack of each product).
- Where the Customer wishes to open a new account with the Supplier, it shall provide such bank and trade references as the Supplier shall require.

### 4. Delivery

- The Supplier shall deliver the Goods to the location set out in the Order or such other location as the parties may agree (Delivery Location) at any time after the Supplier notifies the Customer that the Goods are ready.
- Where the Goods are to be delivered to the Customer's carrier (as opposed to delivery to the Customer's premises or other location contained in the Order) delivery shall be deemed completed as soon as the Goods are delivered to the Customer's carrier.
- Where the Goods are to be delivered to the Customer's premises or to another location contained in the Order, delivery of the Goods shall be deemed completed on the Goods' arrival at the Delivery Location regardless as to whether a representative of the Customer (or someone purporting to be a representative of the Customer) has signed a delivery note or such other acknowledgement of receipt of the Goods.
- Immediately upon receipt of the Goods the Goods supplied will be deemed to have been delivered in the quantity set out in the delivery note unless the delivery note or other acknowledgement is signed "unexamined" by the Customer and the packaging and Goods are retained for later inspection.
- 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 shall be charged to the Customer.
- 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.
- The Customer shall not be entitled to reject the Goods if the Supplier delivers up to and including 10% more or less than the quantity of Goods ordered. Any shortage or over delivery of the Goods shall be reported by the Customer within three days of delivery.
- 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.
- Subject to clause 6.2(a) any query in relation to an order must be raised in writing with the Supplier within 3 days of delivery otherwise the Supplier will be under no obligation to deal with the said query.

### 5. Returns

- The return of non-faulty Goods (Returned Goods) will not be accepted back for credit unless:
  - An inventory of the Returned Goods has been submitted to the Supplier (showing a description of the Returned Goods, the delivery note under which the Returned Goods were supplied and the relevant parts numbers);
  - The Supplier's prior written consent is given to the return of the Returned Goods;
  - The Returned Goods are returned in their original packaging, and in an unmarked and undamaged condition; and
  - The Customer pays the full carriage and insurance costs arising in respect of the delivery of the Returned Goods to the Supplier.
- Upon receipt of the Returned Goods the Supplier shall inspect them and only such Returned Goods found to be in their original packaging, unmarked and undamaged shall be eligible for a credit.
- The Supplier shall credit the original invoice under which the Returned Goods were supplied to the Customer, less a 25% restocking fee within 30 days of receipt of the Returned Goods.
- If any goods or products are returned to or collected by the Supplier, which were not supplied by the Supplier, 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 the collection, storage and or disposal (whether in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) or otherwise) of such goods or products.
- Notwithstanding clauses 5.1 to 5.3 above, no returns will be accepted in respect of:
  - Returned Goods that had been in the possession of the Customer for a period in excess of 10 Business Days;
  - Any black enamelled conduit fittings; and
  - Bespoke, non-standard or made to order Goods under any circumstances whatsoever.

## 6. Quality

- 6.1** 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 with their description; and
  - (b) be free from material defects in design, material and workmanship.
- 6.2** Subject to clause 6.3, if:
- (a) the Customer gives notice in writing to the Supplier within three days of delivery that some or all of the Goods do not comply with the warranty set out in clause 6.1;
  - (b) the Supplier is given a reasonable opportunity of examining such Goods; and
  - (c) the Customer (if asked to do so by the Supplier) returns such Goods to the Supplier's place of business at the Customer's cost, the Supplier shall, at its option, repair or replace the defective Goods, or refund the price of the defective Goods in full.
- 6.3** The Supplier shall not be liable for Good's failure to comply with the warranty set out in clause 6.1 in any of the following events:
- (a) the Customer makes any further use of such Goods after giving notice in accordance with clause 6.2; or
  - (b) the defect arises because the Customer failed to follow the Supplier's or any manufacturer's oral or written instructions as to the storage, commissioning, installation, use and maintenance of the Goods or (if there are none) good trade practice regarding the same; or
  - (c) the defect arises as a result of the Supplier following any drawing, design or Specification supplied by the Customer; or
  - (d) the Customer alters or repairs such Goods without the written consent of the Supplier; or
  - (e) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or
  - (f) the Goods differ from their description as a result of changes made to ensure they comply with applicable statutory or regulatory requirements; or
  - (g) 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 the Goods are suitable for such use; or
  - (h) the Goods are used with incompatible goods or products or outside of the permitted tolerances, whether any limitations on such tolerances are contained or referred to in the Specification or are otherwise within the reasonable contemplation and knowledge of the Customer.
- 6.4** Except as provided in this clause 5, the Supplier shall have no liability to the Customer in respect of the Goods' failure to comply with the warranty set out in clause 6.1.
- 6.5** Except as set out in these Conditions, all warranties, conditions and other terms (to include the terms implied by sections 13 to 15 of the Sale of Goods Act 1979) are, to the fullest extent permitted by law, excluded from the Contract.
- 6.6** These Conditions shall apply to any repaired or replacement Goods supplied by the Supplier.

## 7. Title & Risk

- 7.1** The risk in the Goods shall pass to the Customer on completion of delivery.
- 7.2** Title to the Goods shall not pass to the Customer until the earlier of:
- (a) the Supplier receives payment in full (in cash or cleared funds) for the Goods and any other goods that the Supplier has supplied to the Customer, in which case title to the Goods shall pass at the time of payment of all such sums; and
  - (b) The Customer resells the Goods, in which case title to the Goods shall pass to the Customer at the time specified in clause 7.4.
- 7.3** Until title to the Goods has passed to the Customer, the Customer shall:
- (a) store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as the Supplier's property;
  - (b) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods;
  - (c) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery;
  - (d) notify the Supplier immediately if it becomes subject to any of the events listed in clause 9.2; and
  - (e) give the Supplier such information relating to the Goods as the Supplier may require from time to time.
- 7.4** Subject to clause 7.5, the Customer may resell or use the Goods in the ordinary course of its business (but not otherwise) before the Supplier receives payment for the Goods. However, if the Customer resells the Goods before that time:
- (a) it does so as principal and not as the Supplier's agent; and
  - (b) title to the Goods shall pass from the Supplier to the Customer immediately before the time at which resale by the Customer occurs.
- 7.5** If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in clause 9.2 or the Supplier reasonably believes that any such event is about to happen then, without limiting any other right or remedy the Supplier may have:

- (a) the Customer's right to resell the Goods or use them in the ordinary course of its business ceases immediately; and
- (b) the Supplier may at any time:
  - (i) require the Customer to deliver up all Goods in its possession which have not been resold, or irrevocably incorporated into another product;
  - (ii) 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 and the Customer hereby grants to the Supplier an irrevocable licence to enter at any time any of the Customer's premises where the Goods are stored in order to repossess or inspect the Goods; and the Customer shall pay all of the Supplier's costs and expenses incurred in connection with the repossession and/or inspection of the Goods.

## 8. Price & Payment

- 8.1** Subject to clause 8.11, 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 catalogue or such other published price list in force as at the date of delivery, or to the extent applicable, in any price arrangement agreement between the Supplier and Customer. The Supplier may change its catalogue or published prices at any time without notice The Customer must check the current price applicable before placing the Order. Unless specified all prices are in Pounds Sterling and subject to VAT at the applicable rate.
- 8.2** Where the Supplier and the Customer agree a discount to the catalogue or published price for the Goods, such discount will only apply to the extent that payment for the Goods supplied with such discount is made in full in accordance with the payment terms set out in these Conditions.
- 8.3** The Supplier may, by giving notice to the Customer at any time before delivery, increase the price of the Goods to reflect any increase in the cost of the Goods that is due to:
- (a) any factor beyond the Supplier's control (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials and other manufacturing costs); or
  - (b) any request by the Customer to change the delivery date(s), quantities or types of Goods ordered, or the Specification; or
  - (c) any delay caused by any instructions of the Customer or failure of the Customer to give the Supplier adequate or accurate information or instructions.
- 8.4** The price of the Goods is exclusive of the costs and charges of packaging, insurance and transport of the Goods, which shall be invoiced to the Customer.
- 8.5** The price of the Goods is exclusive of amounts in respect of value added tax (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.
- 8.6** The Supplier may invoice the Customer for the Goods on or at any time after the completion of delivery Any queries relating to the price for the Goods must be raised with the Supplier within 10 Business Days of the date of the invoice. Thereafter the Customer will be deemed to have accepted the invoice and be responsible for payment thereof in full without set off or deduction.
- 8.7** The Customer shall pay the invoice in full and in cleared funds within 30 days of the date of the invoice. Payment shall be made to the bank account nominated in writing by the Supplier. Time of payment is of the essence.
- 8.8** If the Customer fails to make any payment due to the Supplier under the Contract by the due date for payment, then the Customer shall pay interest on the overdue amount at the rate of 4% per annum above Barclays Bank PLC's base rate from time to time. Such interest shall accrue on a daily basis from the due date until actual payment of the overdue amount, whether before or after judgment. The Customer shall pay the interest together with the overdue amount together with the Supplier's reasonable costs incurred in connection with the recovery of the debt.
- 8.9** In addition to clause 8.8 any discount applied to the Goods in accordance with clause 8.1 shall in the event of late payment be withdrawn without notice and shall no longer apply and the full price for the Goods shall be payable in respect thereof.
- 8.10** The Customer shall pay all amounts due under the Contract in full without any set-off, counterclaim, deduction or withholding (except for any deduction or withholding required by law). 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.
- 8.11** All prices given on the Order shall be netted to three decimal places, and the Customer acknowledges and accepts any rounding differences which may from time to time occur in the Supplier's nett pricing.

## 9. Termination & Suspension

- 9.1** If the Customer becomes subject to any of the events listed in clause 9.2 or the Supplier reasonably suspects that the Customer is about to become subject to any of the events listed in clause 9.2, the Supplier may terminate the Contract with immediate effect by giving written notice to the Customer (without thereby incurring any liability to the Customer).
- 9.2** For the purposes of clause 9.1, 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 or limited liability partnership) 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;
  - (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 other than (where the Customer is a company) where these events take place for the sole purpose of a scheme for a solvent amalgamation of the Customer with one or more other companies or the solvent reconstruction of the Customer;
  - (c) (being a company) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Customer, other than for the sole purpose of a scheme for a solvent amalgamation of the Customer with one or more other companies or the solvent reconstruction of the Customer;
  - (d) (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;
  - (e) (being a company) the holder of a qualifying floating charge over the Customer's assets has become entitled to appoint or has appointed an administrative receiver;
  - (f) a person becomes entitled to appoint a receiver over the Customer's assets or a receiver is appointed over the Customer's assets;
  - (g) (being an individual) the Customer is the subject of a bankruptcy petition or order;
  - (h) 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;
    - (i) 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 9.2(a) to clause 9.2(f) (inclusive);
  - (j) the Customer suspends, threatens to suspend, ceases or threatens to cease to carry on all or a substantial part of its business;
  - (k) the Customer's financial position deteriorates to such an extent that in the Supplier's opinion the Customer's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy; and
  - (l) (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.
- 9.3** Without limiting its other rights or remedies, the Supplier may suspend provision of the Goods under the Contract or any other contract between the Customer and the Supplier if the Customer becomes subject to any of the events listed in clause 9.2(a) to clause 9.2(l), or the Supplier reasonably believes that the Customer is about to become subject to any of them, or if the Customer fails to pay any amount due under this Contract on the due date for payment.
- 9.4** On termination of the Contract for any reason the Customer shall immediately pay to the Supplier all of the Supplier's outstanding unpaid invoices and interest and debt recovery costs incurred as at the date of termination.
- 9.5** Termination of the Contract, however arising, shall not affect any of the parties' rights, remedies, obligations and liabilities that have accrued as at termination.
- 9.6** Clauses which expressly or by implication survive termination of the Contract shall continue in full force and effect.

## 10. Limitation of Liability

- 10.1** 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.
- 10.2** Subject to clause 10.1:
- (a) the Supplier shall under no circumstances whatsoever be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit, or any indirect or consequential loss arising under or in connection with the Contract including any loss or damage that results from any action or inaction of the Supplier's suppliers, 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 any loss or damage that results from any action or inaction of the Supplier's suppliers, employees, agents or subcontractors; shall in no circumstances exceed the price of the Goods.

## 11. 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, terrorism, riot, civil commotion, interference by civil or military authorities, import or export regulations or embargoes, breakdown of plant or machinery, difficulties in obtaining raw materials, labour, fuel or machine parts, national or international calamity, armed conflict, 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, or default of suppliers or subcontractors.

## 12. General

- 12.1** Assignment and other dealings.
- (a) The Supplier may at any time assign, transfer, mortgage, charge, subcontract or deal in any other manner with any or all of its rights or obligations under the Contract.
  - (b) The Customer may not assign, transfer, mortgage, charge, subcontract, declare a trust over or deal in any other manner with any or all of its rights or obligations under the Contract without the prior written consent of the Supplier.
- 12.2** Variation. Except as set out in these Conditions, no variation of the Contract, including the introduction of any additional terms and conditions, shall be effective unless it is agreed in writing and signed by the Supplier.
- 12.3** Waiver. A waiver of any right or remedy under the Contract or law 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 prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.
- 12.4** Severance.
- (a) If any provision or part-provision of the Contract is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.
  - (b) If one party gives notice to the other of the possibility that any provision or part-provision of this Contract is invalid, illegal or unenforceable, the parties shall negotiate in good faith to amend such provision so that, as amended, it is legal, valid and enforceable, and, to the greatest extent possible, achieves the intended commercial result of the original provision.
- 12.5** Copyright.  
The Supplier shall retain all copyright © to material within its catalogues, brochures or within any online presence at all times and throughout the world. All rights reserved.
- 12.6** Notices.
- (a) Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to that party at its registered office (if it is a company) or its principal place of business (in any other case) or such other address as that party may have specified to the other party in writing in accordance with this clause, and shall be delivered personally, or sent by pre-paid first class post or other next working day delivery service, commercial courier, fax or email.
  - (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 12.5(a); if sent by pre-paid first-class post or other next working day delivery service, 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 email, 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.
- 12.7** Third parties. A person who is not a party to the Contract shall not have any rights to enforce its terms.
- 12.8** Governing law. 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 the law of England and Wales.
- 12.9** Jurisdiction. Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim arising out of or in connection with the Contract or its subject matter or formation (including non-contractual disputes or claims).
- 12.10** E&OE.  
Whilst every care has been taken in ensuring the accuracy of this catalogue, the Supplier accepts no liability whatsoever for any eventuality arising from errors or omissions within its catalogues, brochures or within any online presence.






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