The background of the page is a complex, abstract graphic. It consists of numerous thin, light blue lines and arrows that crisscross the page, creating a sense of movement and connectivity. The lines and arrows are arranged in a way that suggests a network or a flow of information. The overall color palette is light blue and white, with the text providing a strong contrast in red and dark blue.

General Products 2020

TERMS & CONDITIONS OF SALE

1. DEFINITIONS

In these terms and conditions the following words shall have the following meanings:-

'The Company' shall mean Garo Electric Ltd and its successors in Title. 'The Customer' shall mean the person, firm or company offering to purchase goods from the Company and its successors in Title. 'Goods' shall mean the articles and services which are the subject matter of the contract between the Company and the Customer.

2. GENERAL

All business undertaken by the Company is undertaken on the terms and conditions herein contained and any variations will only be binding on the parties hereto if such variation is in writing and signed on behalf of the Company. Any order placed by a customer is deemed to be upon the terms and conditions herein contained.

3. SETTLEMENT TERMS

All items are strictly nett and due for payment 30 days after date of the invoice unless otherwise specified in writing by the Company. The Customer shall not be entitled to make any deductions whether by reason of set-off or for any other reason.

4. PRICES – EXCLUSIVE OF V.A.T.

All quotations are given at current prices, but are subject to alterations without notice in accordance with prices ruling at time of delivery. The Company shall be entitled to recover from the Customer by way of addition to prices, such amounts which the Company may become liable to pay in respect of Value Added Tax or other legally imposed Tax in relation to the goods, also currency and other Surcharges will be charged, where applicable, at the rate ruling at date of dispatch.

5. CARRIAGE

The Company normally makes no charge for delivery from its warehouse within the usual van delivery area when delivered by its vehicles, but reserves the right to charge carriage on deliveries by whatever means of transport outside such usual delivery areas. Where the goods are specially ordered from manufacturers, the Company reserves the right to pass on any carriage and customs clearance charges as may arise.

6. GUARANTEE

The Company gives no guarantee or warranty whether expressed or implied in relation to the Goods but the Company shall do everything within its power to protect the Customers interests and to that extent shall assign to the Customer the benefit of such guarantee or warranty (if any) as may be given by the manufacturers in relation to the Goods. The Company does not accept liability for any consequential damage howsoever arising from the purchase by the Customer of the Goods whether the same may arise out of any use of the Goods or the installation of the same.

7. DELIVERY DATES

Whilst the Company shall always do its best to comply with a date quoted for delivery of goods it accepts no responsibility for loss or damage arising from failure to comply.

8. RETURNS

Goods correctly supplied may not be returned without the Company's agreement in writing. Goods so returned must be consigned Carriage Paid and accompanied by a Packing Note stating the Company's Delivery Note Number. The Company reserves the right to make a re-stocking charge. Goods will be accepted only if returned in perfect condition and in unopened and perfect packaging. A clear and authorised signature must be obtained from the Company.

8.(i) CLAIMS

(a) Any claim relating to goods delivered under this contract shall be notified to the Company in writing within seven (7) days from the date on which the said goods are received by the Customer or his agent and the Customer shall afford the Company reasonable facilities for examining the goods before they have been disposed of, or in any way altered. All goods damaged in transit and accepted in that condition by the Customer shall not be the subject of any claim hereunder.

(b) Any claim or claims in respect of goods delivered under this contract shall not be grounds for withholding payment of accounts and shall not give any right of set-off against payment due to the Company.

(c) No claim for damages to or shortages of goods during transit will be considered unless the Company and the carriers are advised in writing within seven (7) days of delivery of goods and no claim for non-delivery will be considered unless the Company and the carriers are advised within ten (10) days from date of dispatch of goods.

9. PACKING AND TRANSIT

Goods received damaged should be signed for as 'Damaged', otherwise claims in this regard cannot be submitted. Customers are asked to note the prescribed periods for notification of damage to or shortage and non-delivery of goods and the submission of claims in respect thereof. The Company shall not be liable for any loss resulting from Customers' failure to comply with the requirements of the Railway Executive, Haulage Companies and Post Regulations and the Customer undertakes to indemnify the Company against such loss (if any).

10. ORDERS

Written confirmation of telephone orders should be clearly marked as such, otherwise the Company cannot be responsible should the order be duplicated. The Company reserves the right to refuse any order placed, or to refuse cancellation of any order, or to suspend delivery of any order from time to time, if the account is in arrears.

11. WAIVER

A waiver by the Company at any term or condition shall not constitute a general waiver of such term or condition.

12. OWNERSHIP

(a) The property in the goods shall not be deemed to have passed to the Customer until the goods and any debts owing to the Company whether arising from this contract or otherwise have been paid for and discharged in full.

(b) In the meantime the goods shall remain the sole property of the Company and the Customer shall be bailee thereof.

(c) If the Customer fails to pay any sums due in accordance with the terms of this agreement the Company may after giving seven days notice in writing to the Customer take possession of the goods and may for that purpose, by himself his servants or agents, enter upon any land or premises on or in which the goods or any part of them are believed by the Company to be situated.

(d) The Customer agrees not to sell, assign, sub-let or otherwise part with the possession of the goods until the property in the goods passes to the Customer in accordance with the provisions of paragraphs (a) and (b)

(e) The risk of any loss or damage to or deterioration of the goods from whatever cause shall be borne by the Customer from when the Customer, his servants, licensees or agents receive possession of the goods

(f) If payment is overdue and not discharged, the Company may without prejudice to any of its rights and remedies and with due warning to the Customer by registered mail, recover and resell any or all such goods and may enter upon the Customer's premises for that purpose. Recovery costs will become the liability of the Customer and shall include all labour, tools, plant hire and all other relevant charges-costs.

13. CHOICE OF LAW

These conditions and the contract shall be subject to and construed in accordance with the laws of the Republic of Ireland. The Customer submits to the jurisdiction of the Irish Courts of Law.

TABLE OF CONTENTS

COMPONENTS

General Description	1
Miniature Circuit Breaker	3
Residual Current Circuit Breaker (RCD)	9
Residual Current Breaker (RCBO)	10
Modular Isolator & Changeover Switches	12
Timers	13
Multifunction Timer	13
Test Relays & Time Lag Switches	13
Shower Relays + Shower Timer	13
Kilowatt Hour Meters	14
Contactors	14
Switch Fuses DO Type	14
Surge Protection Devices	15
Busbar	15
Bell Transformer - Bell - Chime	15
Accessories	17
Distribution Blocks	17
Terminal Blocks	18
Group Link Boxes	18
Socomec SIRCO M	19

DOMESTIC CONSUMER UNIT

Consumer Units IP41 Surface	21
Main Overcurrent Device	21
Shower Boards	21
Consumer Units IP41 Flush Plastic	22
Consumer Units Flush Metal	22
Consumer Units IP55 Surface	22
XL Consumer Units IP65 Surface	23

ENCLOSURES

Argenta Metal Enclosures IP65	24
Polyester Enclosures IP66	25
Metal Enclosures Flush	26
Junction Boxes IP67	26
Inspection Windows Plastic IP54	28
Plastic Enclosures	27
Distribution Enclosures IP40 - IP41	28

ENCLOSED SWITCHGEAR

Safety Switches	29
AC and SOLAR DC Switches & Contactors	29
Isolator Switches Enclosed IP53 IP55 IP65	30
Fuse Switches BS Type IP55	31
Fuse Switches NH Type IP65 IP55	32
Metal Busbar Link Boxes IP55	32
Changeover Switches	33
Metal Clad Switchgear /ESB CT Chamber	33
Metal TPN IP41	34
RCBO 1 mod long	34

ISOLATORS, C/O, FUSES

Isolators & Changeover Switches	19
Disconnectors	35
Fuses & Fuse Bases	36

ENVIRONMENTAL

Electric Vehicle Charging	37
Solar Photo Voltaic	41

CEE POWER CONNECTORS

Plugtops	42
Couplers	45
Sockets & Inlets - Wall Mounting	47
3 Way - Connection Outlets	51
16A to 13A BS Adaptor	51
Panel Mounting Outlets & Inlet	52
Interlocked Socket Outlets	56
Combination Units	57
Pro Scene Black Plugs & Couplers	59

Miniature Components 6kA & 10kA

GARO offers two programs of the miniature components, 10kA & 6kA. Both programs consist of miniature circuit breakers (mcb), residual current circuit breakers (rccb), and residual current breakers with integral over-current protection (rcbo). There is a full program of 10kA components, which fit most applications, and a limited program of the 6kA range.

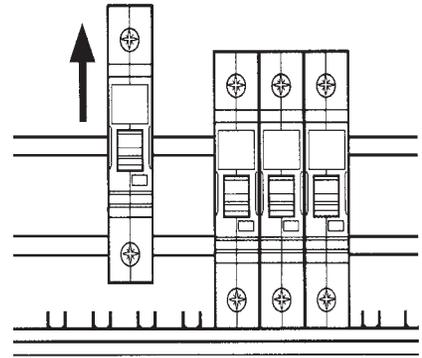
The two switches are compatible with each other.

The 6kA program consists of components of excellent quality, with limited additional features. The components are available with both B and C curve, in 1, 2, and 3 pole.

The 10kA range is a professional program for the industrial segment and more demanding installations. These components are suitable for all applications. The components are available with B,C and D curve, in 1, 1+n, 2, 3, and 4 pole.

The components in both ranges are equipped with a mounting bracket that makes it possible to remove or install an MCB even when busbar is fitted.

Both ranges of components have been certified by Intertek SEMKO according to standards EN 60898-1 and EN 60947-2.



All GARO breakers can be mounted or dismantled in a simple manner without the need to remove the Busbar.

Curve and Utilisation

B-Curve 3 - 5 x I_n

Resistive loads
Lights and sockets
Cookers and ovens
Water heaters
Radiators

C-Curve 5 - 10 x I_n

Inductive and resistive loads
Microwaves
Motors
Outlets
Washers and Dryers

D-Curve 10 - 20 x I_n

Startup Power loads
Welding activity
Lifts
Truck chargers

**TECHNICAL DATA
BREAKER 6kA**

Energy Restriction Class	3
Connection Area	1-25 mm ²
Max Torque	3,5 Nm
Protection Class	IP20
Rated Voltage	200-415V AC

Ambient Temperature -25..+56 °C

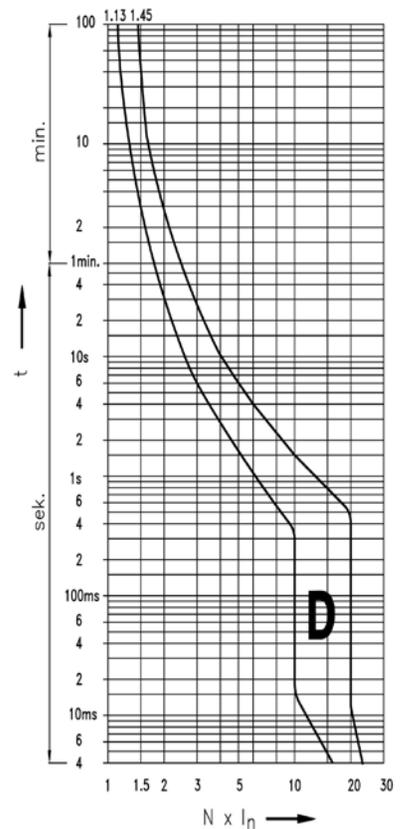
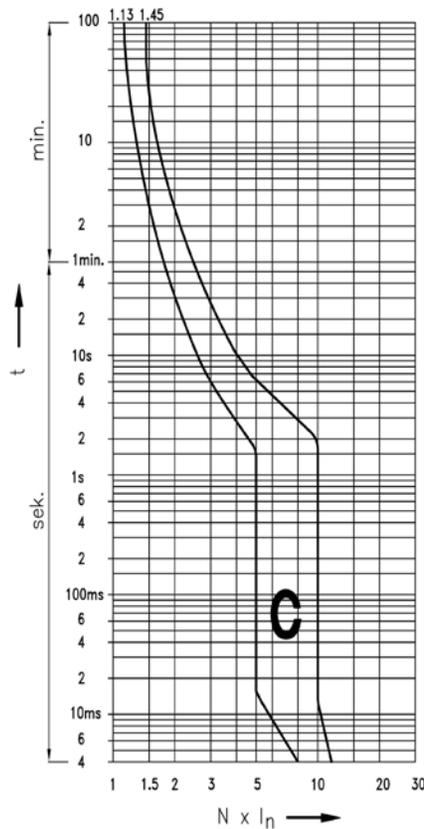
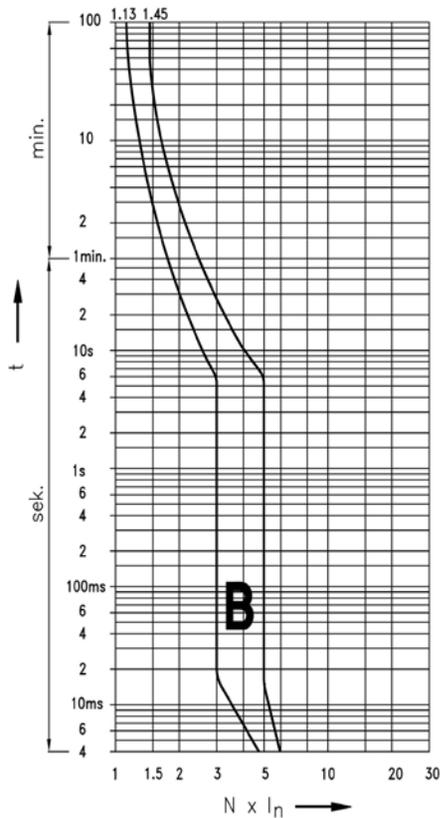
**TECHNICAL DATA
BREAKER 10kA**

Energy Restriction Class	3
Connection Area	1-25 mm ²
Max Torque	3,5 Nm
Protection Class	IP20
Rated Voltage	200-415V AC, max 60 VDC min 12 VDC

Ambient Temperature -25 .. +55 °C

Breaker Characteristics

The main purpose of an MCB is to protect cables and wiring against overload by over currents and short circuits. The miniature circuit breakers tripping characteristic is therefore adapted to the cable and wiring load data.



The circuit breaker losses by curve and rated current

	I_n	R	P
	A	mΩ	W
C,D	0.5	4500	1,12
	1	1800	1,80
	1.6	450	1,15
	2	280	1,08
	4	110	1,70
B,C,D	6	29	1,08
	10	13	1,30
	13	11,6	2,00
	16	9,0	2,30
	20	5,3	2,00
	25	4,1	2,50
	32	2,6	2,70
	40	1,96	3,20
	50	1,5	4,00
	63	1,15	4,80

Ambient temperature effect on circuit breakers curve B, C and D

I_n (A)	Ambient temperature T/°C									
	-30	-20	-10	0	10	20	30	40	50	60
0,5	0,6	0,59	0,57	0,56	0,54	0,52	0,5	0,47	0,44	0,41
1	1,2	1,18	1,15	1,12	1,09	1,05	1	0,94	0,88	0,82
1,6	1,92	1,89	1,84	1,79	1,74	1,68	1,6	1,51	1,42	1,32
2	2,4	2,36	2,30	2,24	2,18	2,1	2	1,88	1,77	1,65
4	4,8	4,72	4,61	4,49	4,36	4,20	4	3,77	3,55	3,29
6	7,2	7,09	6,91	6,73	6,54	6,31	6	5,66	5,33	4,94
10	12	11,8	11,5	11,2	10,9	10,5	10	9,44	8,89	8,23
13	15,6	15,4	14,9	14,5	14,1	13,6	13	12,2	11,5	10,7
16	19,2	18,9	18,4	17,9	17,4	16,8	16	15,1	14,2	13,2
20	24	23,6	23	22,4	21,8	21	20	18,8	17,7	16,5
25	30	29,5	28,8	28	27,2	26,3	25	23,6	22,2	20,6
32	38,4	37,8	36,9	35,9	34,9	33,6	32	30,2	28,4	26,3
40	48	47,8	46,1	44,9	43,6	42	40	37,7	35,5	32,9

Example:

A circuit breaker with $I_n = 10A$ has a tripping characteristic of 10A at ambient temperature +30 °C. The same breaker must have a current of 12A to achieve the same tripping characteristic at -30 °C. At +50 °C it is sufficient with a load of 8.89A to achieve the characteristic corresponding to 10A at +30 °C

MINIATURE CIRCUIT BREAKER 6kA CURVE B

1 Pole 6kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB106	6	12	6.64
MCB GRB110	10	12	6.64
MCB GRB116	16	12	6.64
MCB GRB120	20	12	6.64
MCB GRB125	25	12	6.64
MCB GRB132	32	12	6.64
MCB GRB140	40	12	8.65
MCB GRB150	50	12	14.91
MCB GRB163	63	12	17.62



1-Pole MCB 6kA

2 Pole 6kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB206	6	6	17.62
MCB GRB210	10	6	17.62
MCB GRB216	16	6	17.62
MCB GRB220	20	6	17.62
MCB GRB225	25	6	17.62
MCB GRB232	32	6	17.62
MCB GRB240	40	6	21.99
MCB GRB250	50	6	25.62
MCB GRB263	63	6	30.40



3-Pole MCB 6kA

3 Pole 6kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB306	6	4	28.46
MCB GRB310	10	4	28.46
MCB GRB316	16	4	28.46
MCB GRB320	20	4	28.46
MCB GRB325	25	4	28.46
MCB GRB332	32	4	28.46
MCB GRB340	40	4	35.18
MCB GRB350	50	4	40.97
MCB GRB363	63	4	48.46

MINIATURE CIRCUIT BREAKER 6kA CURVE C

1 Pole 6kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC101	1	12	7.92
MCB GRC102	2	12	7.92
MCB GRC103	3	12	7.92
MCB GRC104	4	12	7.92
MCB GRC106	6	12	6.77
MCB GRC110	10	12	6.77
MCB GRC116	16	12	6.77
MCB GRC120	20	12	6.77
MCB GRC125	25	12	6.77
MCB GRC132	32	12	6.77
MCB GRC140	40	12	8.82
MCB GRC150	50	12	15.21
MCB GRC163	63	12	17.97



1-Pole MCB 6kA

2 Pole 6kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC206	6	6	17.62
MCB GRC210	10	6	17.62
MCB GRC216	16	6	17.62
MCB GRC220	20	6	17.62
MCB GRC225	25	6	17.62
MCB GRC232	32	6	17.62
MCB GRC240	40	6	21.99
MCB GRC250	50	6	25.62
MCB GRC263	63	6	30.40



3-Pole MCB 6kA

3 Pole 6kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC306	6	4	28.46
MCB GRC310	10	4	28.46
MCB GRC316	16	4	28.46
MCB GRC320	20	4	28.46
MCB GRC325	25	4	28.46
MCB GRC332	32	4	28.46
MCB GRC340	40	4	35.18
MCB GRC350	50	4	40.97
MCB GRC363	63	4	48.46

MINIATURE CIRCUIT BREAKER 10kA CURVE B

1-Pole 10kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 106	6	12	8.07
MCB GSB 110	10	12	8.07
MCB GSB 113	13	12	8.07
MCB GSB 116	16	12	8.07
MCB GSB 120	20	12	8.07
MCB GSB 125	25	12	8.07
MCB GSB 132	32	12	8.07
MCB GSB 140	40	12	10.00
MCB GSB 150	50	12	20.03
MCB GSB 163	63	12	23.94



1-Pole MCB 10kA

2-Pole 10kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 206	6	6	19.38
MCB GSB 210	10	6	19.38
MCB GSB 213	13	6	19.38
MCB GSB 216	16	6	19.38
MCB GSB 220	20	6	19.38
MCB GSB 225	25	6	19.38
MCB GSB 232	32	6	19.38
MCB GSB 240	40	6	29.60
MCB GSB 250	50	6	41.59
MCB GSB 263	63	6	51.53



2-Pole MCB 10kA

3-Pole 10kA Curve - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 306	6	4	39.70
MCB GSB 310	10	4	39.70
MCB GSB 313	13	4	39.70
MCB GSB 316	16	4	39.70
MCB GSB 320	20	4	39.70
MCB GSB 325	25	4	39.70
MCB GSB 332	32	4	39.70
MCB GSB 340	40	4	56.48
MCB GSB 350	50	4	70.06
MCB GSB 363	63	4	84.58



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CURVE C

1-Pole 10kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 101	1	12	10.46
MCB GSC 102	2	12	10.46
MCB GSC 104	4	12	10.46
MCB GSC 106	6	12	8.07
MCB GSC 110	10	12	8.07
MCB GSC 116	16	12	8.07
MCB GSC 120	20	12	8.07
MCB GSC 125	25	12	8.07
MCB GSC 132	32	12	8.07
MCB GSC 140	40	12	10.00
MCB GSC 150	50	12	20.03
MCB GSC 163	63	12	23.94



1-Pole MCB 10kA

2-Pole 10kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 206	6	6	19.38
MCB GSC 210	10	6	19.38
MCB GSC 216	16	6	19.38
MCB GSC 220	20	6	19.38
MCB GSC 225	25	6	19.38
MCB GSC 232	32	6	19.38
MCB GSC 240	40	6	22.41
MCB GSC 250	50	6	41.59
MCB GSC 263	63	6	51.53



2-Pole MCB 10kA

3-Pole 10kA Curve - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 301	1	4	49.68
MCB GSC 302	2	4	49.68
MCB GSC 304	4	4	49.68
MCB GSC 306	6	4	39.70
MCB GSC 310	10	4	39.70
MCB GSC 316	16	4	39.70
MCB GSC 320	20	4	39.70
MCB GSC 325	25	4	39.70
MCB GSC 332	32	4	39.70
MCB GSC 340	40	4	56.48
MCB GSC 350	50	4	70.06
MCB GSC 363	63	4	84.58



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CURVE D

1-Pole 10kA Curve - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 106	6	12	8.07
MCB GSD 110	10	12	8.07
MCB GSD 113	13	12	8.07
MCB GSD 116	16	12	8.07
MCB GSD 120	20	12	8.07
MCB GSD 125	25	12	8.07
MCB GSD 132	32	12	8.07



1-Pole MCB 10kA

2-Pole 10kA Curve - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 206	6	6	19.38
MCB GSD 210	10	6	19.38
MCB GSD 213	13	6	19.38
MCB GSD 216	16	6	19.38
MCB GSD 220	20	6	19.38
MCB GSD 225	25	6	19.38
MCB GSD 232	32	6	19.38



2-Pole MCB 10kA

3-Pole 10kA Curve - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 306	6	4	39.70
MCB GSD 310	10	4	39.70
MCB GSD 313	13	4	39.70
MCB GSD 316	16	4	39.70
MCB GSD 320	20	4	39.70
MCB GSD 325	25	4	39.70
MCB GSD 332	32	4	39.70



3-Pole MCB 10kA

LOCKING DEVICE

Locking device makes it possible to lock dolly in a specific position on the component.

Item	Description	Trade Price
MCB LOCK	Locking device suitable for Miniature Circuit Breakers in the 6kA & 10kA ranges.	11.30



MCB LOCK

AUXILIARY CONTACTS

For remote indication of the status of Miniature Circuit Breakers.

Item	Description	Modules	AC12	DC12	Trade Price
MCB GR AUX	Auxiliary Contact for 6kA & 10KA breakers 1no + 1nc	0,5	230V-6A	110V-1A	8.81



MCB GR AUX

MINIATURE CIRCUIT BREAKER 10kA 80 - 125A

1-Pole 10kA Curve C

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C180	80	12	1.5	29.43
GCB C1100	100	12	1.5	33.34
GCB C1125	125	12	1.5	37.59

2 Pole 10kA Curve C

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C280	80	6	3	108.83
GCB C2100	100	6	3	103.45
GCB C2125	125	6	3	184.35



3-Pole 10kA
HIGH CURRENT MCB

3 Pole 10kA Curve C

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C380	80	4	4.5	139.13
GCB C3100	100	4	4.5	156.01
GCB C3125	125	4	4.5	173.39

RESIDUAL CURRENT CIRCUIT BREAKERS

GARO's range of RCCBs are **10kA, Type A or Type B** and are tested and certified to standard EN 61008. The range can be fed from the TOP or BOTTOM. On each 2-Pole 10kA device it is possible to connect the neutral conductor on the right or left side. Protection to IP20. Auxiliary Contact see previous page.

GARO RCCB Type A & B Rated Voltage 200-415V AC Max Torque 3 Nm Protection Class IP20

10kA TYPE A

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
2 Pole						
GCD 25-2-03	25	2	2	30	25	34.59
GCD 40-2-03	40	2	2	30	25	33.52
GCD 63-2-03	63	2	2	30	25	38.20
GCD 63-2-1	63	2	2	100	25	67.49
GCD 63-2-3	63	2	2	300	25	67.49
GCD 80-2-03	80	2	2	30	25	73.50
GCD 100-2-1	100	2	2	100	25	194.88
GCD 100-2-3	100	2	2	300	25	194.88



GCD 25-2-03

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
4 Pole						
GCD 25-4-03	25	4	4	30	25	59.90
GCD 40-4-03	40	4	4	30	25	59.90
GCD 63-4-03	63	4	4	30	25	77.19
GCD 80-4-03	80	4	4	30	25	101.32
GCD 100-4-03	100	4	4	30	25	239.51
GCD 40-4-3	40	4	4	300	25	60.91
GCD 63-4-3	63	4	4	300	25	82.90
GCD 63-4-5	63	4	4	500	25	82.90
GCD 80-4-3	80	4	4	300	25	109.82
GCD 100-4-1	100	4	4	100	25	208.40
GCD 100-4-3	100	4	4	300	25	194.88



GCD 63-4-5

10kA TYPE B

GCD63-4-03B	63A	4	4	30	25	371.07
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RCCB TYPE S

Selective - minimum time delay 40ms.

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
2 Pole						
GCD 63-2-1S	63	2	2	100	25	106.37
GCD 63-2-3S	63	2	2	300	25	106.37
4 Pole						
GCD 63-4-1S	63	4	4	100	25	139.66
GCD 63-4-3S	63	4	4	300	25	139.66

RESIDUAL CURRENT BREAKER with Overcurrent Protection (RCBO) 6kA **TYPE A**

An RCBO is a combination of an RCCB and MCB. The 6kA range is **Type A** and can be supplied from the top or bottom. The products are approved and certified according to EN 61009.

GARO RCBO 6kA Type A Rated Voltage 200-415V AC Max Torque 3 Nm Protection Class IP20

6kA TYPE A

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve B - TYPE A						
RCBO GRB06	6	2	2	30	1-25	29.21
RCBO GRB10	10	2	2	30	1-25	29.21
RCBO GRB16	16	2	2	30	1-25	29.21
RCBO GRB20	20	2	2	30	1-25	29.21
RCBO GRB25	25	2	2	30	1-25	29.21
RCBO GRB32	32	2	2	30	1-25	29.21
RCBO GRB40S	40	2	2	30	1-25	29.21

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
4 Pole 6kA Curve B - TYPE A						
RCBO GSB06	6	4	3P+N	30	1-25	125.32
RCBO GSB10	10	4	3P+N	30	1-25	125.32
RCBO GSB16	16	4	3P+N	30	1-25	125.32
RCBO GSB20	20	4	3P+N	30	1-25	125.32
RCBO GSB25	25	4	3P+N	30	1-25	125.32
RCBO GSB32	32	4	3P+N	30	1-25	125.32

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve C - TYPE A						
RCBO GRC06	6	2	2	30	1-25	29.79
RCBO GRC10	10	2	2	30	1-25	29.79
RCBO GRC16	16	2	2	30	1-25	29.79
RCBO GRC20	20	2	2	30	1-25	29.79
RCBO GRC25	25	2	2	30	1-25	29.79
RCBO GRC32	32	2	2	30	1-25	29.79
RCBO GRC40	40	2	2	30	1-25	29.79

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
4 Pole 6kA Curve C - TYPE A						
RCBO GSC06	6	4	3P+N	30	1-25	125.32
RCBO GSC10	10	4	3P+N	30	1-25	125.32
RCBO GSC16	16	4	3P+N	30	1-25	125.32
RCBO GSC20	20	4	3P+N	30	1-25	125.32
RCBO GSC25	25	4	3P+N	30	1-25	125.32
RCBO GSC32	32	4	3P+N	30	1-25	125.32



2 Pole RCBO 6kA



4 Pole RCBO 6kA

LOCKING DEVICE

Locking mechanism for use with Residual Current Circuit Breaker with Overcurrent Protection. RCBO lock makes it possible to lock RCBO & RCCB in On or Off position.

Item	Description	Trade Price
LB2	Locking mechanism for RCBO & RCCB	6.59



RESIDUAL CURRENT BREAKER with Overcurrent Protection (RCBO) 10kA

An RCBO is a combination of an RCCB and MCB. The 10kA range is **Type A** and can be supplied from the top or bottom. The products are approved and certified according to EN 61009.

GARO RCBO 10kA Type A Rated Voltage 200-415V AC Max Torque 3 Nm Protection Class IP20

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 10kA Curve B						
RCBO GS B06A2P	6	2	2	30	1-25	43.47
RCBO GS B10A2P	10	2	2	30	1-25	43.47
RCBO GS B16A2P	16	2	2	30	1-25	43.47
RCBO GS B20A2P	20	2	2	30	1-25	43.47
RCBO GS B25A2P	25	2	2	30	1-25	43.47
RCBO GS B32A2P	32	2	2	30	1-25	43.47
RCBO GS B40A2P	40	2	2	30	1-25	43.47



2 Pole RCBO 10kA

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 10kA Curve - C						
RCBO GS C06A2P	6	2	2	30	1-25	43.47
RCBO GS C10A2P	10	2	2	30	1-25	43.47
RCBO GS C16A2P	16	2	2	30	1-25	43.47
RCBO GS C20A2P	20	2	2	30	1-25	43.47
RCBO GS C25A2P	25	2	2	30	1-25	43.47
RCBO GS C32A2P	32	2	2	30	1-25	43.47
RCBO GS C40A2P	40	2	2	30	1-25	43.47

**** 1 MOD RESIDUAL CURRENT BREAKER with Overcurrent Protection (RCBO) 6kA**

The 1 Mod 6kA range is **Type A** 1P + N RCBO and **MUST ONLY** be supplied from the **bottom**. The products are approved and certified according to EN 61009.

GARO RCBO 6kA Type A Rated Voltage 200-415V AC Max Torque 3 Nm Protection Class IP20

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve B						
RCBO GI B06	6	1	1 + N	30	1-6	34.29
RCBO GI B10	10	1	1 + N	30	1-6	34.29
RCBO GI B16	16	1	1 + N	30	1-6	34.29
RCBO GI B20	20	1	1 + N	30	1-6	34.29
RCBO GI B25	25	1	1 + N	30	1-6	34.29

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve C						
RCBO GI C06	6	1	1 + N	30	1-6	34.29
RCBO GI C10	10	1	1 + N	30	1-6	34.29
RCBO GI C16	16	1	1 + N	30	1-6	34.29
RCBO GI C20	20	1	1 + N	30	1-6	34.29
RCBO GI C25	25	1	1 + N	30	1-6	34.29



1 Mod 2 Pole RCBO

Item	Description	Modular Length	For cable size mm ²	Trade Price
ACCESSORIES				
AS-35-SLISOSO	Terminal Connector		25	1.97
SKN0021-10	SP Busbar 10 mm ² to suit 1mod RCBO	12		14.55
SKN0029-10	TP Busbar 10 mm ² to suit 1mod RCBO	12		24.09

RESIDUAL CURRENT BREAKER with Overcurrent Protection (RCBO) 6kA **TYPE B**

An RCBO is a combination of an RCCB and MCB. This 6kA range is **Type B** and can be supplied from the top or bottom. The products are approved and certified according to EN 61009.

GARO RCBO 6kA Type B Rated Voltage 200-415V AC Max Torque 3 Nm Protection Class IP20

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve B - TYPE B						
RCBOGRB06M4B	6	4	2	30	1-25	374.54
RCBOGRB10M4B	10	4	2	30	1-25	374.54
RCBOGRB13M4B	13	4	2	30	1-25	374.54
RCBOGRB16M4B	16	4	2	30	1-25	374.54
RCBOGRB20M4B	20	4	2	30	1-25	374.54
RCBOGRB26M4B	25	4	2	30	1-25	374.54
RCBOGRB32M4B	32	4	2	30	1-25	374.54
RCBOGRB40M4B	40	4	2	30	1-25	374.54

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Curve - C - TYPE B						
RCBOGRC06M4B	6	4	2	30	1-25	374.54
RCBOGRC10M4B	10	4	2	30	1-25	374.54
RCBOGRC13M4B	13	4	2	30	1-25	374.54
RCBOGRC16M4B	16	4	2	30	1-25	374.54
RCBOGRC20M4B	20	4	2	30	1-25	374.54
RCBOGRC26M4B	25	4	2	30	1-25	374.54
RCBOGRC32M4B	32	4	2	30	1-25	374.54
RCBOGRC40M4B	40	4	2	30	1-25	374.54



MODULAR ISOLATOR & CHANGEOVER SWITCHES

Rated 10A - 100A, AC22 and certified to EN60947-3.

Item	Type	AC21-AC22 (A)	Modules	Poles	Operating Voltage V	For cable size mm ²	Trade Price
With dolly							
GSV 1100	Isolator	100	1	1	230	35	9.10
GSV 2100	Isolator	100	2	2	400	35	19.05
GSV 3100	Isolator	100	3	3	400	35	29.76
GSV 4125	Isolator	125	4	4	400	35	42.51



GSV 2100

Item	Type	AC21-AC22 (A)	Modules	Poles	Operating Voltage V	Trade Price
With toggle						
Enclosure class IP20						
HOA 1	H-O-A	10	2	1	440	27.98
HOA 2	H-O-A	10	2	2	440	33.43



HOA 1

ELECTRONIC TIMERS

Digital and Astronomical (SOLAR) time switches with daily and weekly adjustable programs. Battery reserve of 3 years (Li-ion type CR-2032). Charge reserve of 1 minute (for battery replacement). Halogen and incandescent = 1500W (@ 240V). Fluorescent = 600W (@ 240V)

Item	Modules	Channels	Relay Capacity	Trade Price
DV1KT3	2	1	250V AC - 16(10)A	73.48
DV2KT3	2	2	250V AC - 16(10)A	95.59
DV1K1M	1	1	250V AC - 16(10)A	107.25



DV1KT3



DV1K 1M

Item	Modules	Channels	Relay Capacity	Programmable	Trade Price
ASTRO1KT3	2	1	250V AC - 16(10)A	Dusk to dawn	92.86
ASTRO2KT3	2	2	250V AC - 16(10)A	Dusk to dawn	152.62



ASTRO2KT3

MECHANICAL & ELECTROMECHANICAL TIMERS

Item	Modules	Relay Capacity	Quadrant Type	Intervention Time (min)	Intervention Precision	Trade Price
D1M MEK	1	250V AC - 16(4)A	24 hours - 96 trips x 15 mins	15 mins	+/- 5 mins	36.09
D3M MEK	3	250V AC - 16(4)A	24 hours - 48 trips x 30 mins	30 mins	+/- 7.5 mins	42.76
V3M MEK	3	250V AC - 16(4)A	168 hours - 48 trips x 3.5 hrs	3.5 hours	+/- 52.5 mins	82.64
GTA8	1	Staircase Timer	1-7 minutes	-	-	33.27



D3M MEK

Time switches with daily and weekly adjustable programs. Charge reserve of 150 hours. Din rail mounting

MULTIFUNCTION TIMER

Item	Description	Modules	Capacity	Functions	Trade Price
GCRM - 91H	Multifunction Time Relay	1	16A AC-DC 12-240V	10 x 0.15 - 10 days	45.55



LSM-01

TEST RELAYS & TIME LAG SWITCHES

Item	Description	Contact	Trade Price
DCTU	Emergency Light Test Relay - Din Rail mounting	1 x c-o	53.33
COLUMBUS	Pneumatic Time Delay Switch - 6A, 5 secs - 20 mins	1 x c-o	46.51
GTA8	Staircase Timer 1 mod, 1 - 7 minutes		33.27



SHOWER RELAY + TIMER

Item	Description	Rated(A)	Voltage	Trade Price
LSR11	Load drop relay 6,7	39A	230 Volt	49.02
SR 1000	Shower Timer 6 - 10	Set for 6 or 10 minute shower		73.84



KILOWATT HOUR METERS

Din rail mounted energy meters MID certified.

Item	Description	Measures	Mod- ules	Rated Current (A)	Trade Price
GNM1D	Garó SP Meter 45A Pulse MID	KWH, KW, V & A	1	45	62.12
GNM1D-RS485	Garó SP Meter 45A Modbus MID	KWH, KW, V & A	1	45	73.19
GNM1D-100P	Garó SP Meter 100A Bi-directional Pulse	KWH, KW, V & A	2	100	119.03
GNM1D-100-RS485	Garó SP Meter 100A Bi-directional Modbus	KWH, KW, V & A	2	100	138.01
GNM3D	Garó TP 65A Meter Pulse MID	KWH, KW, V & A	4	63	142.80
GNM3D-RS485	Garó TP 65A Meter Modbus MID	KWH, KW, V & A	4	63	155.30
GNM3TD	Garó MFM Dual RJ11 Input Pulse + Modbus	KWH, KW, V & A	4	160-630	205.75
GNT160	160A TP CT RJ11 150 cm Lead		CT	160	59.11
GNT250	250A TP CT RJ11 150 cm Lead		CT	250	66.35
GNT630	630A TP CT RJ11 150 cm Lead		CT	630	73.33
GM3T-RS485	Garó MFM 5A CT Input Pulse + Modbus	KWH, KW, V & A	4	6000	237.00



GNM1D



GNM3TD & GNT630

CONTACTORS

Item	Contacts	Poles	Mod- ules	Rated		Coil		Trade Price
				AC-1[A]	Voltage (V)	Type		
Modular contactors for din rail mounting								
GK20-1NO1NC	1 NO + 1 NC	2	1	20	230	AC	19.61	
GK20-2NO	2 NO	2	1	20	230	AC	27.53	
GK20-2NC	2 NC	2	1	20	230	AC	32.07	
GK24-4NO	4 NO	4	2	25	230	AC-DC	33.04	
GK24-4NC	4 NC	4	2	25	230	AC-DC	37.67	
GK32-2NO	2 NO	2	1	32	230	AC-DC	33.72	
GK32-4NO	4 NO	4	2	32	230	AC-DC	36.17	
GK40-1NO	1 NO	1	1	40	230	AC-DC	49.63	
GK40-4NO	4 NO	4	3	40	230	AC-DC	78.90	
GK40-2NO2NC	2 NO + 2 NC	4	3	40	230	AC-DC	103.99	
GK63-4NO	4 NO	4	3	63	230	AC-DC	103.81	



GK40 - 2NO 2NC

Item	Description	Modules	Trade Price
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ACCESSORIES FOR CONTACTORS

GKD	Distance Piece, 12gm, temperatures < 40 ° C	0,5	3.70
GKN 11	Auxiliary Contacts		18.35



GKD

SWITCHFUSE TYPE DO

Item	Poles	Max Rated Current A	Modules	Trade Price
For fuses see page 36 & page 18 for busbar to suit.				
STVDO 21P	1	63	1.5	12.50
STVDO 22P	2	63	3	34.59
STVDO 23P	3	63	4.5	48.45



NOTE: GARO's DO switchfuses STV can only be switched on when the fuse has been fully inserted.

SURGE PROTECTION DEVICES

GARO surge protection devices are designed to limit transient overvoltages and divert surge currents.

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Max Operating Voltage	Trade Price
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DC SURGE PROTECTION DEVICES

DC SPD10	2	1	yes	10KA per pole	60KA per pole	60V DC	305.92
DC SPD40	2	11	yes	10KA per pole	40KA per pole	60V DC	216.50



DC SPD 10

Category IEC-EN : Class 1 - 11
 Location of use : DC power systems
 Protection Modes: (+) - PE, (-) - PE, (+) - (-)
 Standard : IEC61643-1

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Back up Fuse Maximum	Trade Price
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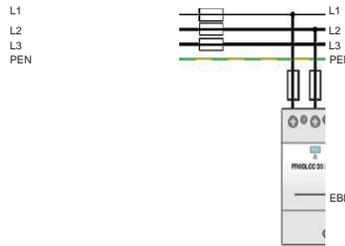
CLASS 1 SURGE PROTECTION DEVICES

BSR 275 3pol	3	1, 11, 111	yes	25KA per pole	100KA per pole	250A gl	511.41
BSR 275 4pol	4	1, 11, 111	yes	25KA per pole	100KA per pole	250A gl	677.47
GBR 275 3pol	3	1, 11	yes	25KA per pole	100KA per pole	160A gl	319.88
GBR 275 4pol	4	1, 11	yes	25KA per pole	100KA per pole	160A gl	415.85



BSR 275 3pol

Category IEC-EN : Class 1 - Type 1
 Location of use : Main distribution board
 Network: TNC-S
 In (8-20) : 25kA per pole
 I_{max} (8-20) : 25kA per pole
 Standard : IEC61643-1



GBR 275 4pol

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Back up Fuse Maximum	Trade Price
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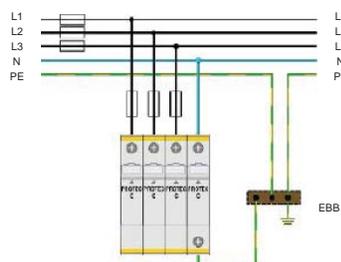
CLASS 11 SURGE PROTECTION DEVICES

GPTT 2-300-1-0	1	11	no	5KA per pole	40KA per pole	125A	28.02
GPTT 2-300-1-0-R	1	11	yes	5KA per pole	40KA per pole	125A	39.13
GPTT 2-300-2-0	2	11	no	5KA per pole	40KA per pole	125A	53.79
GPTT 2-300-2-0-R	2	11	yes	5KA per pole	40KA per pole	125A	68.88
GPTT 2-300-3-0	3	11	no	5KA per pole	40KA per pole	125A	80.65
GPTT 2-300-3-0-R	3	11	yes	5KA per pole	40KA per pole	125A	102.10
GPTT 2-300-4-0	4	11	no	5KA per pole	40KA per pole	125A	107.51
GPTT 2-300-4-0-R	4	11	yes	5KA per pole	40KA per pole	125A	132.46
GPT 275 plug	1	11	yes	5KA per pole	40KA per pole	125A	37.07
LX3375	3	11	no	5KA per pole	40KA per pole	N-A	224.49



GPT 275 4pol

Category IEC-EN : Class 11 - Type 11
 Location of use : Main - Sub distribution board
 Network: TNC-S
 In (8-20) : 5kA per pole
 I_{max} (8-20) : 20kA per pole
 Standard : IEC61643-1



SURGE PROTECTION DEVICES

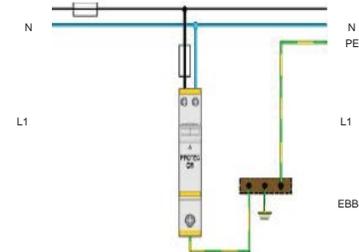
Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Backup Fuse Maximum	Trade Price
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CLASS 111 SURGE PROTECTION DEVICES

PDM 320	1	111	no	n-a	10KA per pole	63A	85.30
PDMR 320	1	111	yes	n-a	10KA per pole	63A	100.06
PDM 320plug	1	111	yes	n-a	10KA per pole	63A	76.97
GTS 170	1	111	yes	n-a	20KA per pole	63A	109.27
GTS 170plug	1	111	yes	n-a	20KA per pole	63A	90.61



Category IEC-EN : Class 111 - Type 111
 Location of use : Sub - Local distribution board
 Network : TNC-S
 In (8-20) : 5kA per pole
 I_{max} (8-20) : 10kA per pole
 Standard : IEC61643-1

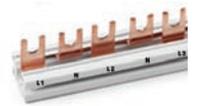
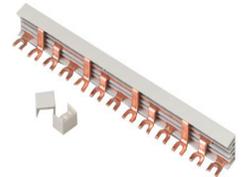


BUSBAR

Item	Description	Current capacity with end input (A)	Current capacity with central input (A)	Trade Price
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Pin type busbar with insulation

S-1L-1000-10I	10 mm ² 1-phase, 57 mod	63	100	13.53
S-2L-1000-10	10 mm ² 2-phase, 57 mod	63	100	24.13
S-3L-1000-10	10 mm ² 3-phase, 57 mod	63	100	27.23
S-3L-1000-16	16 mm ² 3-phase, 57 mod	80	130	41.46
S-4L-1000-16	16 mm ² for 4 Pole RCCB	80	130	59.16
S-1L-2MOD-10ISO	10mm ² 1-phase 2mod insulated busbar			0.57
S-1L-27-1000	16 mm ² 1-phase	80	130	40.41
S-3L-27-1000	16 mm ² 3-phase, for do - neoz fuse holders	80	130	51.10
S-1L-145-10-ISO	10 mm ² 1-phase, 8 mod	63	100	1.68
S-1L-210-10-ISO	10 mm ² 1-phase, 12 mod	63	100	3.33



Fork type busbar with insulation

G-1L-1000-10ISO	10 mm ² 1-phase, 57 mod	63	100	12.67
G-2L-1000-10M5	10 mm ² 2-phase, 57 mod	63	100	24.01
G-3L-1000-10CM5	10 mm ² 3-phase, 57 mod	63	100	26.07
G-L1-N-L2-N-L	16 mm ² 3-phase+N, 57 mod	80	130	65.38
G-4L-1000-16	16 mm ² 3-phase+N	80	130	57.44



Busbar for surge protection device

G 16 L3	3 Pole linking busbar GS100SG			4.73
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BELL TRANSFORMER - BELL - CHIME

Item	Description	Modules	Rated Current	Trade Price
TRAN 8-12-24	Bell transformer	2	230-8V,12V,24V 1A	15.88
PB-04	Bell Push - white			5.38
PB-04B	Bell Push - black			5.38
BIM85	Door Chime (Double Sound)			13.60



TRAN8-12-24

ACCESSORIES

Item	Description	Trade Price
Terminals and Connectors		
AS25-SN	Cable Connector Pin to suit 25 mm ² cable	1.80
AS25-GN	Cable Connector Fork to suit 25 mm ² cable	1.80
AS35-S	Cable Connector Pin to suit 35 mm ² cable	2.03
AS-35-SLISOSO	Cable Connector Pin to suit 35 mm ² cable. 27mm PITCH	1.91
AS50-SN	Cable Connector Pin to suit 50 mm ² cable. 15mm PITCH	3.19
E7	Earth Terminal Block 7 Way 16 mm ² clips on to DIN rail	2.11
N7	Neutral Terminal Block 7 Way 16 mm ² clips on to DIN rail	2.11
BRASS 9	9 Way Brass Terminal for Garo Consumer Units	2.01
BRASS 18	18 Way Brass Terminal for Garo Consumer Units	5.28
BRASS 3LA	18 Way Brass Terminal for LA Consumer Units	5.28
BRASSBAR	Brass Terminal 6.5 x 9 x 288mm	7.32
BRASSBAR1M	N-E Terminal Block 153 way (1 metre)	19.44
KKS1-2	Supports for N-E Terminal Block (1 metre)	1.06
E15	Earth Terminal 15Way Clip-On	11.82
N15	Neutral Terminal 15Way Clip-On	11.82
NPE35	Earth - Neutral Terminal 160A to suit 35 mm ² cable	11.90
NPE120	Earth - Neutral Terminal 250A to suit 120 mm ² cable	38.19
TBN185	Earth - Neutral Terminal 400A to suit 185 mm ² cable	54.03
DISCT6US	Disconnect Test Terminal	4.84
EPDISCT6U	End Plate for Disconnect Terminal	0.42
RPQ 1000	125A 4 Pole short busbar block	12.57
RPQ 1005	125A 4 Pole long busbar Block	17.11
RPQ 1010	100A 4 Pole longest Busbar Block	22.40
RPQ 1015	160A 4 Pole standard Busbar Block	49.31
RPQ 1016	160A 4 Pole modular Busbar Block with Top & Bottom entry	52.17
RPQ 1017	160A 4 Pole modular Busbar Block	52.17
RPQ 1020	100A 4 Pole shallow Busbar Block	70.40
RPQ 1025	100A 4 Pole Busbar Block	27.94



Item	Description	Trade Price
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Blanking Strip Plastic

Covers the empty spaces in the front cover of distribution enclosures

TC-1A	4.5 modules - easily cut into desired size	1.00
ZA2W	57 modules (1 metre)	5.98



BLANKING STRIP

DISTRIBUTION BLOCKS

Item	Pole	Rating (A)	Incoming Terminals Qty x mm	Outgoing Terminals Qty x mm	kA	Trade Price
RPU 2995	SP	80	1 x 16	2x16,4x6	22	9.76
RPU 3000	SP	125	1 x 35	10x16	25	28.43
RPU 3005	SP	160	1 x 70	10x16	35	28.97
RPU 3010	SP	250	1 x 120	4x10,5x16,2x25	50	44.85
RPU 3015	SP	400	1 x 185	4x10,5x16,2x25	50	45.36
RPU 3020	SP	500	1 x 185	4x10,5x16,2x25	50	49.86
RPC 3015	SP	400	1 x 185	input connector	50	12.40
RPT 3000	TP	125	1 x 35	6 x 16	25	55.72
RPT 3005	TP	160	1 x 70	6 x 16	35	58.00



TERMINAL BLOCKS

Item		Size	Colour	Trade Price
GKL 1x50 GRE	Terminal Block A Class	1 x 50	Grey	3.57
GKL 2x50 GRE	Terminal Block A Class	2 x 50	Grey	6.50
GKL 1x50 BLE	Terminal Block A Class	1 x 50	Blue	3.57
GKL 2x50 BLE	Terminal Block A Class	2 x 50	Blue	6.50
GKL 1x50 G-G	Terminal Block A Class	1 x 50	Green/Ylw	3.57
GKL 2x50 G-G	Terminal Block A Class	2 x 50	Green/Ylw	6.50
GKL 1x95 GRE	Terminal Block A Class	1 x 95	Grey	9.02
GKL 2x95 GRE	Terminal Block A Class	2 x 95	Grey	17.45
GKL 1x95 BLE	Terminal Block A Class	1 x 95	Blue	9.02
GKL 2x95 BLE	Terminal Block A Class	2 x 95	Blue	17.45
GKL 1x95 G-G	Terminal Block A Class	1 x 95	Green/Ylw	9.02
GKL 2x95 G-G	Terminal Block A Class	2 x 95	Green/Ylw	17.45
GKL 1x150 GRE	Terminal Block A Class	1 x 150	Grey	15.14
GKL 2x150 GRE	Terminal Block A Class	2 x 150	Grey	30.63
GKL 1x150 BLE	Terminal Block A Class	1 x 150	Blue	15.14
GKL 2x150 BLE	Terminal Block A Class	2 x 150	Blue	30.63
GKL 1x150 G-G	Terminal Block A Class	1 x 150	Green/Ylw	15.14
GKL 2x150 G-G	Terminal Block A Class	2 x 150	Green/Ylw	30.63
GKL 1x240 GRE	Terminal Block A Class	1 x 240	Grey	23.77
GKL 2x240 GRE	Terminal Block A Class	2 x 240	Grey	40.36
GKL 1x240 BLE	Terminal Block A Class	1 x 240	Blue	23.77
GKL 2x240 BLE	Terminal Block A Class	2 x 240	Blue	40.36
GKL 1x240 G-G	Terminal Block A Class	1 x 240	Green/Ylw	23.77



GROUP LINK BOX

Item	Description	Height mm	Width mm	Depth mm	Trade Price
GKLM 2x16 NCG	16sq GRP link box	190	144	131	99.14
GKLM 2x50 NCG	50sq GRP link box	255	180	139	164.73
GKLM 2x95 NCG	95sq GRP link box	380	280	171	308.45



GKLM 2x16 NCG

SIRCO M SWITCH

Item	Rating (A)	Poles	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
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SIRCO M Switches

2200 3001	20	3	M1	20	20	9	19.85
2200 3003	32	3	M1	32	32	15	25.90
2200 3004	40	3	M1	40	40	18.5	27.38
2200 3006	63	3	M2	63	63	30	32.90
2200 3008	80	3	M2	80	80	37	41.89
2200 3009	100	3	M2	100	100	37	56.15
2200 3010	100	3	M3	100	100	45	60.00
2200 3011	125	3	M3	125	125	55	69.89



SIRCO M

Item	Rating (A)	Poles	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
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SIRCO MV Switches

2200 3012	125	3	MV	125	125	55	83.93
2200 4012	125	4	MV	125	125	55	107.30
2200 3016	160	3	MV	160	160	75	102.60
2200 4016	160	4	MV	160	160	75	136.40



SIRCO MV

Item	Rating (A)	Module	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
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SIRCO M Additional Modules

2200 5005	20 - 40	Unswitched	M1	40	40	18.5	8.40
2200 5009	63 - 80	Unswitched	M2	80	80	37	10.07
2200 5011	100 - 125	Unswitched	M3	125	125	55	18.33
2200 1004	20 - 40	Switched	M1	40	40	18.5	9.03
2200 1008	63 - 80	Switched	M2	80	80	37	12.66
2200 1011	100 - 125	Switched	M3	125	125	55	20.28
2200 9005	20 - 40	Earth	M1	40	40	18.5	8.40
2200 9009	63 - 80	Earth	M2	80	80	37	12.25
2200 9011	100 - 125	Earth	M3	125	125	55	18.33



Additional Module

Item	Rating (A)	Module	Frame	AC21 (A)	Contact	Trade Price
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SIRCO M - MV Auxiliary Contacts

2299 0001	20 - 125	Auxiliary	Frame M	10	NO + NC	12.46
2299 0011	20 - 125	Auxiliary	Frame M	10	2NO	12.46
3999 0701	20 - 125	Auxiliary	Frame U	10	NC	16.96
3999 0702	20 - 125	Auxiliary	Frame U	10	NO	16.96



Aux Contact

Item	Rating (A)	Poles	Frame	Colour	Handle	Trade Price
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SIRCO M - MV Direct Handle

2299 5012	20 - 80	3&4	M1-M2	Blue	M00	1.79
2299 5032	100 - 125	3&4	M3	Blue	M01	2.85
2299 5022	125 - 160	3&4	MV	Blue	M0	5.13



MV Direct Handle

SIRCO M SWITCH

Item	Rating (A)	Poles	Frame	Colour	Handle	IP Rating	Trade Price
SIRCO M - MV External Handle							
1403 2111	20 - 125	3&4	M1-M3	Black	S01	65	30.64
1473 1111	20 - 80	3&4	M1-M2	Black	S00	65	6.29
1483 1111	100 - 125	3&4	M3	Black	S0	65	10.10
1493 0111	125 - 160	3&4	MV	Black	S0	65	10.10
1411 2111	125 - 160	3&4	MV	Black	S1	65	25.03
1473 1113	20 - 80	3&4	M1-M2	Black	Changeover	65	6.99



MV External Handle

Item	Rating (A)	Poles	Frame	Length	Handle	Trade Price
SIRCO M - MV Shaft Extensions						
1407 0520	20 - 125	3&4	M1 - M3	200mm	S00	4.11
1407 0532	20 - 125	3&4	M1 - M3	320mm	S00	6.25
1409 0620	125 - 160	3&4	MV	200mm	S0	8.92
1409 0632	125 - 160	3&4	MV	320mm	S0	13.71
1401 0620	125 - 160	3&4	MV	200mm	S1	11.45
1401 0632	125 - 160	3&4	MV	320mm	S1	18.49
1429 0000			Extension Shaft Guide			7.30



Shaft Extension

Item	Rating (A)	Poles	Frame	Feature	Switching	Trade Price
SIRCO M Conversion Kit						
2209 6009	20 - 80	3&4	M1 - M2	Changeover	I - 0 - II	23.93
2269 6009	20 - 80	3&4	M1 - M2	6 - 8 Pole	0 - I	26.04
2209 6011	100 - 125	3&4	M3	Changeover	I - 0 - II	103.50
2269 6011	100 - 125	3&4	M3	6 - 8 Pole	0 - I	83.73
2299 6009	20 - 80	3&4	M1 - M2	Changeover	I - I+II - II	30.56
2299 6011	100 - 125	3&4	M3	Changeover	I - I+II - II	125.99



Conversion Kit

SIRCO M Door Mounting Kit

2299 3309	20 - 80	3&4	M1 - M2	Door Mount	6.25
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Item	Rating (A)	Poles	Frame	Position	IP Rating	Trade Price
SIRCO M - MV Terminal Shrouds						
2294 3005	20 - 40	3	M1	Top-Bottom	20	9.02
2294 1005	20 - 40	1	M1	Top-Bottom	20	4.11
2294 3009	63 - 80	3	M2	Top-Bottom	20	12.28
2294 1009	63 - 80	1	M2	Top-Bottom	20	4.11
2294 3016	100 - 160	3	M3 - MV	Top-Bottom	20	17.99
2294 1011	100 - 125	1	M3	Top-Bottom	20	5.84
2294 4016	125 - 160	4	MV	Top-Bottom	20	25.81



Terminal Shrouds

CONSUMER UNITS - Surface IP41

Exclusive design for surface mounting. The housing is manufactured in white plastic and is also fitted with a door. Each unit is always supplied with the earth and neutral blocks, additional blocks can be fitted on request.

The enclosures are manufactured from Halogen free, colour RAL9010 and are tested, approved and certified by SEMKO.

All GARO consumer units are assembled in our Irish manufacturing facility specialising in quick turnaround on bespoke orders.

Full CAD design service available.

Design Innovation:

With a folding / removable chassis, the enclosure has been ingeniously designed to facilitate installation and to create an almost unlimited working space.

G type 2 row consumer unit



CONSUMER UNITS IP41 WITH MAIN 10kA MCB

Standard Distribution Boards c/w Type B Incomer

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
G 13-7B	G1-13	63A MCB	Yes	7	-	-	110.99
G 26-7B	G2-26	63A MCB	Yes	7	-	-	115.67
G 39-7B	G3-39	63A MCB	Yes	7	-	-	141.80

Standard Distribution Boards c/w Type C Incomer

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
G 13-7C	G1-13	63A MCB	Yes	7	-	-	110.99
G 26-7C	G2-26	63A MCB	Yes	7	-	-	115.67
G 39-7C	G3-39	63A MCB	Yes	7	-	-	141.80



G26-7B

CONSUMER UNITS IP41 WITH MAIN ISOLATOR

Standard Distribution Boards c/w Incoming Isolator

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GI 13-7	G1-13	Isolator	Yes	7	-	-	115.01
GI 26-7	G2-26	Isolator	Yes	7	-	-	116.82
GI 39-7	G3-39	Isolator	Yes	7	-	-	145.88

MAIN OVERCURRENT DEVICE IP55 - Single Phase

Item	Enclosure	Rating (A)	kA	Type	IP Rating	Poles	Trade Price
G4-63B	CT3G	63	10	B	55	1	28.68
G4-63C	CT3G	63	10	C	55	1	28.68
G4-80C	CT3G	80	10	C	55	1	44.13
G4-100C	CT3G	100	10	C	55	1	49.64



G4-63B

SHOWER BOARDS - Priority & Non-Priority

Item	Enclosure	Incoming	Description	Relays	Timer	Trade Price
CV8-PS1	CV8PO-RR (sfc)	40A RCBO	PRIORITY	1	0	158.31
CV8-NPS	CV8PO-RR (sfc)	40A RCBO	NON PRIORITY	2	0	237.48
CV12-NPST	CV12PO-RR (sfc)	40A RCBO	NON PRIORITY	2	1	307.52
G13-3NPS	G1-13 (sfc)	40A RCBO	NON PRIORITY	3	0	441.20



CV8-NPS

CONSUMER UNITS - Flush Concrete or Cavity Wall

Exclusive design for flush mounting. The rear housing is either manufactured in plastic and is fitted with a metal door, or is a complete metal flush board. Suitable for either flush fitting in concrete or in a cavity wall. Each unit is always supplied with the earth and neutral blocks, additional blocks can be fitted on request.

The enclosures are manufactured from Halogen free, colour RAL9010 and are tested, approved and certified by SEMKO. All GARO consumer units are assembled in our Irish manufacturing facility specialising in quick turnaround on bespoke orders. Full CAD design service available.

CONSUMER UNITS IP41 - Flush - Plastic Housing & Metal Door

c/w MAIN Type B 10KA Incomer

Item	Enclosure*	Incoming	RCCB	MCB	RCBO	Traffo	Trade Price
K14-7B	K1-12	63A MCB	Yes	7	-	-	119.78
K28-7B	K2-24	63A MCB	Yes	7	-	-	144.18
K42-7B	K3-36	63A MCB	Yes	7	-	-	188.55



K12-7B

c/w MAIN Isolator

KI14-7	K1-12	Isolator	Yes	7	-	-	121.53
KI28-7	K2-24	Isolator	Yes	7	-	-	139.54
KI42-7	K3-36	Isolator	Yes	7	-	-	184.55

Flush Enclosure dimensions on Page 23

CONSUMER UNITS - Flush - Metal Housing & Metal Door

c/w MAIN Type B 10KA Incomer

Item	Enclosure*	Incoming	RCCB	MCB	RCBO	Traffo	Trade Price
NIM14-7B	NIM1-14	63A MCB	Yes	7	-	-	212.96
NIM28-7B	NIM2-28	63A MCB	Yes	7	-	-	237.21
NIM42-7B	NIM3-42	63A MCB	Yes	7	-	-	284.75

c/w MAIN Isolator

NIM14-7	NIM1-14	Isolator	Yes	7	-	-	207.73
NIM28-7	NIM2-28	Isolator	Yes	7	-	-	231.99
NIM42-7	NIM3-42	Isolator	Yes	7	-	-	279.52

Flush Enclosure dimensions on Page 26

MAIN OVERCURRENT DEVICE IP55 - Single Phase

Item	Enclosure	Rating (A)	kA	Type	IP Rating	Poles	Trade Price
G4-63B	CT3G	63	10	B	55	1	28.68
G4-63C	CT3G	63	10	C	55	1	28.68
G4-80C	CT3G	80	10	C	55	1	44.13
G4-100C	CT3G	100	10	C	55	1	49.64



G4-63B

CONSUMER UNITS IP55

Standard Distribution Boards

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
AGRI 6	GCUT6	63A MCB	Yes	2	-	-	97.89
AGRI 8	GCUT8	63A MCB	Yes	4	-	-	117.45
AGRI 12-7	GCUT112	63A MCB	Yes	7	-	-	127.26
AGRI 24-7	GCUT224	63A MCB	Yes	7	-	-	141.93
AGRI 36-7	GCUT336	63A MCB	Yes	7	-	-	161.18



AGRI13-7

CONSUMER UNITS DESIGNED AND MADE TO YOUR REQUIREMENTS - EN62208

This new LARGER IP65 exclusive design for surface mounting. The housing is manufactured in grey plastic and is also fitted with a transparent door. Each unit is always supplied with quick relelease earth and neutral bar and 35mm sq terminals. Quick release chassis, 46mm between din-rail and backplate offers unrivalled space, with 4 selaing points and security key option.

Available with isolator or 10kA MCB with curve B or C

XL CONSUMER UNITS IP65 WITH MAIN 10kA MCB

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GXL18-7B	GCUT118NE	63A MCB	Yes	7	-	-	142.80
GXL36-7B	GCUT236NE	63A MCB	Yes	7	-	-	150.96
GXL54-7B	GCUT354NE	63A MCB	Yes	7	-	-	193.80



XL CONSUMER UNITS IP65 WITH MAIN ISOLATOR

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GXL18-7I	GCUT118NE	Isolator	Yes	7	-	-	142.80
GXL36-7I	GCUT236NE	Isolator	Yes	7	-	-	150.96
GXL54-7I	GCUT354NE	Isolator	Yes	7	-	-	193.80



XL COMBINED CONSUMER UNITS IP65 WITH MAIN 10kA MCB & 10A RCBO

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GXL18-7BB	GCUT118NE	63A MCB	Yes	7	10A RCBO	-	186.69
GXL36-7BB	GCUT236NE	63A MCB	Yes	7	10A RCBO	-	214.64
GXL54-7BB	GCUT354NE	63A MCB	Yes	7	10A RCBO	-	253.98



CONSUMER UNIT & OVERCURRENT DEVICE KIT

Item	Enclosure Size	Rating (A)	kA	Overcurrent Device Type	Consumer Unit		Trade Price
					MCB	RCCB	
GI 26-7B KIT	G 2-26 + CT3G	63	6-Oct	B	7	1	150.76
GI 26-7C KIT	G 2-26 + CT3G	63	6-Oct	C	7	1	150.76
GI 39-7B KIT	G 3-39 + CT3G	63		B	7	1	165.02

Kits consist of a standard 7 way G-Line Consumer Unit and a Main Overcurrent Device ("B" or "C" curve). Consumer units contain a main 100A ISOLATOR, 63A RCCB and 7 x "B" Type MCBs.

FLUSH CONSUMER UNIT ENCLOSURE DIMENSIONS

Item	Internal "cut-out" Dimensions			External Dimensions		
	Width mm	Height mm	Depth mm	Width mm	Height mm	Depth mm
SIL 14 PO-PH	314	314	86	368	343	93
SIL 28 PO-PH	314	414	86	368	443	93
SIL 42 PO-PH	314	539	86	368	568	93
SIL 56 PO-PH	314	724	86	368	753	93
SIL 70 PO-PH	314	849	86	368	878	93

ARGENTA METAL ENCLOSURES IP65

The ARGENTA Series comprises a group of metal enclosures suitable for housing switchgear, controlgear and other equipment used in the supply and distribution of electricity.

The enclosures are made with high quality materials in cold-rolled steel plate of up to 2mm thick and coated with RAL 7035 hardened epoxy-polyester paint.

Metal Cabinets * All cabinets complete with mounting plate

Item	Height mm	Width mm	Depth mm	Trade Price
GN302015	300	200	150	65.88
GN302515	300	250	150	67.30
GN303015	300	300	150	70.48
GN403015	400	300	150	86.37
GN403020	400	300	200	92.77
GN404020	400	400	200	106.81
GN504020	500	400	200	117.68
GN504025	500	400	250	124.60
GN604020	600	400	200	122.68
GN604025	600	400	250	138.74
GN604030	600	400	300	152.51
GN606025	600	600	250	188.78
GN606030	600	600	300	212.35
GN705020	700	500	200	186.76
GN806020	800	600	200	220.37
GN806025	800	600	250	227.05
GN806030	800	600	300	255.59
GN808030	800	800	300	322.36
GN806040	800	600	400	297.82
GN1006025	1000	600	250	310.39
GN1008030	1000	800	300	364.80
GN1008040	1000	800	400	428.01
GN1206030	1200	600	300	441.35
GN1208040	1200	800	400	461.04
GN12010030	1200	1000	300	458.58



** Other cabinet sizes available upon request

Metal Cabinet Accessories

Item	For use with Cabinet	Trade Price
CH3025	Din Rail & Cover 2 Row x 8 Mod GN302515	75.01
CH4030	Din Rail & Cover 3 Row x 11 Mod GN403015-20	77.66
CH5040	Din Rail & Cover 3 Row x 16 Mod GN504015-20	84.74
CH6040	Din Rail & Cover 4 Row x 16 Mod GN604020	89.86
CH8060	Din Rail & Cover 5 Row x 26 Mod GN806020	94.64
SP250	Chassis fixing for 250mm box 250mm depth	31.83
SP300	Chassis fixing for 300mm box 300mm depth	33.83
GN48451	7mm Triangular Lock ALL	25.20
GN48456	Quarter Turning Lock with Key ALL	12.65
GN48457	Quarter Turn Key Lock ALL	25.20
GNKEY	7mm Plastic Key ALL	1.20
GN-48423	Wall bracket for Argenta Enclosures	9.67
BRASSBAR1M	Neutral or Earth Bar 6.5 x 9 x 1000mm 153 way	20.33
KKS1-2	Supports for N-E Terminal Bar (1 metre)	1.11



TECHNICAL DATA

Degree of protection
Resistance to impact
Range of temperature
Maximum voltage

IP65
IK09
-25-+40°C
1000V

EN 62208; EN 60439-1-3; 2006-95-CE directive

POLYESTER ENCLOSURES IP66

Enclosures IP66

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
POL302514	66	300	250	140	100.71
POL403020	66	400	300	200	131.34
POL404020	66	400	400	200	152.35
POL504020	66	500	400	200	190.05
POL604023	66	600	400	230	216.33
POL605023	66	600	500	230	237.05
POL806030	66	800	600	300	389.56



Modular Chassis

Item	Cabinet Reference	Modules	Rows	Trade Price
PCH4030	POL403020	24	2	77.82
PCH4040	POL404020	36	2	80.23
PCH5040	POL504020	54	3	100.50
PCH6040	POL604023	54	3	115.34
PCH6050	POL605023	69	3	139.62
PCH8060	POL806030	116	4	168.05



Chassis 2 row 36 mod

Accessories

Item	Description	Suitability	Trade Price
SP250	Chassis fixing for 250mm box	250mm depth	31.83
SP300	Chassis fixing for 300mm box	300mm depth	33.83
GN48451	7mm Triangular Lock	ALL	25.20
GN48456	Quarter Turning Lock with Key	ALL	12.65
GN48457	Quarter Turn Key Lock	ALL	25.20
GNKEY	7mm Plastic Key	ALL	1.20
POL29222	Wall bracket for POL Enclosures		16.86

Backplate - Metal

Item	Trade Price
PML3025	4.98
PML4030	7.12
PML4040	9.29
PML5040	14.93
PML6040	15.09
PML6050	36.90
PML8060	41.15

Backplate - Polyester

Item	Trade Price
PPL3025	10.04
PPL4030	14.28
PPL4040	18.28
PPL5040	25.49
PPL6040	31.07
PPL6050	36.56
PPL8060	56.42

TECHNICAL DATA

Degree of protection
Glow wire rating
Resistance to impact
Colour

IP66
960° C
IK10
RAL 9002

FLUSH METAL ENCLOSURES

Item	Description	Height mm	Width mm	Depth mm	Trade Price	
NIM1-14	1 Row 14 Mod Metal Flush Board	35A	268	312	82	143.57
NIM1-20	1 Row 20 Mod Metal Flush Board	35A	268	395	82	167.55
NIM2-28	2 Row 28 Mod Metal Flush Board	50A	393	312	82	165.99
NIM2-40	2 Row 40 Mod Metal Flush Board	50A	393	395	82	198.58
NIM3-42	3 Row 42 Mod Metal Flush Board	50A	518	312	82	184.85
NIM3-60	3 Row 60 Mod Metal Flush Board	50A	518	395	82	246.41
NIM3-75	3 Row 75 Mod Metal Flush Board	50A	518	492	82	276.49
NIM80-4	4 Row 80 Mod Metal Flush Board	50A	718	395	82	313.32
NIM100-5	5 Row 100 Mod Metal Flush Board	50A	843	395	82	341.31



NIM 3-42

JUNCTION BOXES IP67

Junction Boxes with plain sides

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
EL111	67	108	108	64	3.16
EL161	67	116	162	76	5.05
EL171	67	151	175	95	8.10
EL231	67	180	241	95	10.84
EL322	67	239	328	129	27.73



Junction Box plain sides

INSPECTION WINDOWS PLASTIC - IP54

Windows are of compact (robust) design and are made of shock-resistant polycarbonate. Ideally suited for mounting by panel builder our range of hinged windows are designed to suit 4 - 18 modules (17.5mm). Windows are hinged to open 180° with holder included for holding window open when required.

Mounting frame made of shock-resistant polycarbonate with integrated gasket for flange mounting. All metal parts are corrosion-resistant. Integrated free position for lead seal.

Item	Modules	a mm	b mm	c mm	d mm	Weight grams	Trade Price
9006 504	4	92	65	72		97	17.46
9006 506	6	128	51	108		127	18.05
9006 509	9	182	78	162		166	23.56
9006 514	13	253	41	73	233	223	28.27
9006 518	18	344	105	324		299	32.49

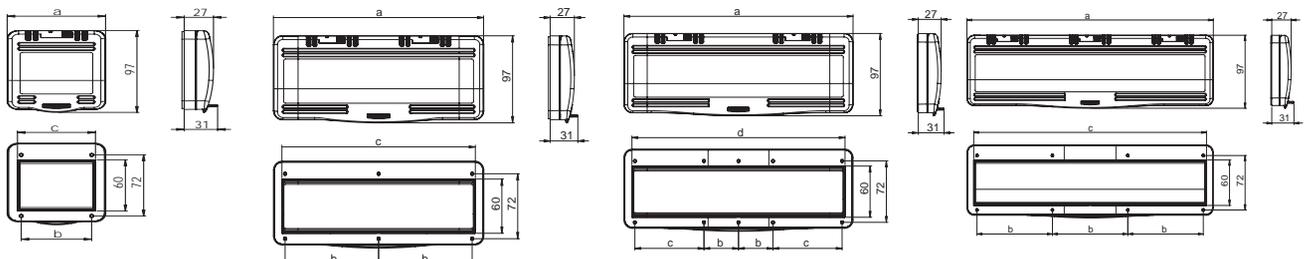


4 Mod window

6 & 9 Mod windows

13 Mod window

18 Mod window



PLASTIC ENCLOSURES

Our range of distribution enclosures come with transparent reversible doors which can be sealed.

They are made from halogen free long-lasting plastic material and are equipped with dust caps, for wall mounting screws, and 1-4 quick locking secured screws.

Enclosures have supports for fixing mounting plates. Cable entries are metric.

Item	Description	IP Rating	Width mm	Height mm	Depth mm	Trade Price
BT2 - GO	1 x 2 Mod Enclosure	20	53	133	80	2.51
BT4 - GO	1 x 4 Mod Enclosure	20	100	133	85	3.90
BV4PTRR - GO	1 x 4 Mod Enclosure	40	180	228	120	16.74
BV8PTRR - GO	1 x 8 Mod Enclosure	40	105	228	191	22.44
CDN 4G	1 x 3 Mod Enclosure	65	84	174	111	18.63
GCUT 4	1 x 4 Modules DIN Rails	65	166	231	113	24.80
GCUT 6	1 x 6 Modules DIN Rails	65	202	231	113	28.65
GCUT 8	1 x 8 Modules DIN Rails	65	238	231	118	32.76
GCUT 112	1 x 12 Modules DIN Rails	65	310	246	148	39.57
GCUT 118	1 x 18 Modules DIN Rails	65	418	246	148	62.21
GCUT 224	2 x 12 (24) Modules DIN Rails	65	310	436	148	66.06
GCUT 236	2 x 18 (36) Modules DIN Rails	65	418	436	148	88.73
GCUT 336	3 x 12 (36) Modules DIN Rails	65	310	586	148	91.23
GCUT 354	3 X 18 (54) Modules DIN Rails	65	418	586	148	128.07
** Din rails can be mounted at two different heights						
GCUT N - E	N + E Bar for GCUT 112 - GCUT 354					17.63



BT2 - GO



BT4 - GO



GCUT 4



GCUT 6



GCUT 112



GCUT 224



GCUT 336

GCUT TECHNICAL DATA

Degree of protection	IP65	Glow wire rating	650° C
Resistance to impact	IK08	Ball pressure test	70° C
Auto-extinguishing degree	HB (UL94)		

According to 2006-95-CE directive and EN 60439-1 and UNE-EN 60439-3 norms on affected parts.

DISTRIBUTION ENCLOSURES IP 40 - IP41

GM Metal Enclosures

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
GM 1-6	40	6	1	320	250	95	28.31
GM 1-14	40	14	1	335	300	111	100.70
GM 1-25	40	25	1	515	300	111	140.09
GM 2-28	40	28	2	335	425	111	132.12
GM 2-50	40	50	2	515	425	111	206.96
GM 3-42	40	42	3	335	550	111	154.43
GM 3-75	40	75	3	515	550	111	259.48
GM KEYLOCK	Lock and key set for GM boards (except GM 1-6)						23.18



GM1-14

MSI Metal Enclosures **

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
MSI 36-1C	40	36	3	315	530	145	253.22
MSI 48-1C	40	48	4	315	680	145	284.06
MSI 90-2C	40	90	3	610	530	145	348.98
MSI 120-2C	40	120	4	610	680	145	415.53
MSSKL	Lock and key set for MSI cabinets						34.06
TFSO	Flat Flange Size 11						5.93



MSI 36-1C

** MSI Enclosures are supplied without Flanges - please order separately

Plastic Enclosures - surface mounting

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
G1-13	41	14	1	300	245	125	35.50
G2-26	41	28	2	300	370	125	42.05
G3-39	41	42	3	300	495	125	66.17
BV8PORR-GO	40	8	1	191	228	99	20.10
BV12PO-GO	40	12	1	264	228	99	25.09
BV24PO-GO	40	24	2	264	353	99	43.34



G2-26

Plastic Enclosures - flush mounting c/w metal door

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
SIL 14 PO-PH	41	14	1	368	343	93	59.47
SIL 28 PO-PH	41	28	2	368	443	93	68.17
SIL 42 PO-PH	41	42	3	368	568	93	96.48
SIL 56 PO-PH	41	56	4	368	753	93	142.53
SIL 70 PO-PH	41	70	5	314	849	93	266.45



BV12PO-GO

Item	Internal "cut-out" Dimensions			External Dimensions		
	Width mm	Height mm	Depth mm	Width mm	Height mm	Depth mm
SIL 14 PO-PH	314	314	86	368	343	93
SIL 28 PO-PH	314	414	86	368	443	93
SIL 42 PO-PH	314	539	86	368	568	93
SIL 56 PO-PH	314	724	86	368	753	93
SIL 70 PO-PH	314	849	86	368	878	93



SIL 14 PO-VO

SAFETY SWITCHES ENCLOSED - AC & SOLAR DC - IP65

Polycarbonate Safety Switches - Grey Body - Red Yellow Handle - 3 Pole

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SS 320 IP65	20	3	65	100	125	72	23.42
SS 325 IP65	25	3	65	100	125	72	25.17
SS 332 IP65	32	3	65	100	125	72	27.60
SS 340 IP65	40	3	65	125	175	90	31.93
SS 363 IP65	63	3	65	125	175	90	32.93
SS 380 IP65	80	3	65	190	280	130	69.44
SS 3100 IP65	100	3	65	190	280	130	86.55
SS 3125 IP65	125	3	65	190	280	130	98.98



SS 320 IP65

Polycarbonate Safety Switches - Grey Body - Red Yellow Handle - 4 Pole

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SS 420 IP65	20	4	65	100	125	72	26.23
SS 425 IP65	25	4	65	100	125	72	28.18
SS 432 IP65	32	4	65	100	125	72	29.32
SS 440 IP65	40	4	65	125	175	90	35.73
SS 463 IP65	63	4	65	125	175	90	37.58
SS 480 IP65	80	4	65	190	280	130	74.57
SS 4100 IP65	100	4	65	190	280	130	90.38
SS 4125 IP65	125	4	65	190	280	130	104.88



SS 440 IP65

Safety Switches - AUX Modules

Item	Trade Price	
RAC20	20A AUX Module	3.03
RAC25	25A AUX Module	3.03
RAC32	32A AUX Module	3.03
RAC40	40A AUX Module	3.03
RAC63	63A AUX Module	3.03
RAC80	80A AUX Module	7.61



SS 4100 IP65

SOLAR DC Isolators

Item	Rating (A)	Poles	IP Rating	Trade Price
SS 416 IP65 DC	16	2	65	25.13
SS 432 IP65 DC	32	4	65	39.09



SS 416 IP65 DC

SOLAR DC Contactors

Item	Rating 600V DC1	Poles	IP Rating	Trade Price
KNL16 PV600	16A	3	67	250.00
KNL48 PV600	48A	3	67	310.00

ENCLOSED DC CONTACTORS	Rating (A)	Push Button	Width mm	Height mm	Depth mm	Trade Price
KNL16 PV600C	16A	-	151	175	155	276.75
KNL48 PV600C	48A	Y	320	395	175	338.25

ISOLATOR SWITCHES ENCLOSED IP53 - IP65

Metalclad Isolator Switches - IP53

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SW 20 IP53M	20	3	53	110	147	70	25.39
SW 32 IP53M	32	3	53	135	220	85	42.29
SW 40 IP53M	40	3	53	135	220	85	44.05
SW 63 IP53M	63	3	53	135	220	85	45.15
SW 80 IP53M	80	3	53	245	315	125	91.83
SW 100 IP53M	100	3	53	245	315	125	99.07
SW 125 IP53M	125	3	53	245	315	125	107.38



SW 20 IP53M

Polyester Isolator Switches - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SW 63 IP65P	63	3	65	250	300	150	351.44
SW 125 IP65P	125	3	65	300	400	200	512.00
SW 160 IP65P	160	3	65	300	400	200	581.05
SW 200 IP65P	200	3	65	400	400	200	613.24
SW 250 IP65P	250	3	65	400	400	200	647.70
SW 400 IP65P	400	3	65	400	500	200	786.85
SW 500 IP65P	500	3	65	400	500	200	887.42
SW 630 IP65P	630	3	65	400	600	230	983.24

ISOLATOR SWITCHES ENCLOSED IP55

Metalclad Isolator Switches 3 Pole - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
GSW363 IP55M	63	3	1	55	300	200	150	160.43
GSW3125 IP55M	125	3	2	55	400	300	200	297.39
GSW3200 IP55M	200	3	2	55	400	300	200	343.84
GSW3250 IP55M	250	3	2	55	400	300	200	481.50
GSW3400 IP55M	400	3	3	55	600	500	250	707.73

**above 400A available on request **

Metalclad Isolator - IP55 Accessories

Item	Cable Entry/ Cable Exit	For Distribution Use	Link Box
Enclosure size 1	GN302015	GN302515 + CH3025 (2 x 8 mods)	BBL160
Enclosure size 2	GN403020	GN403020 + CH4030 (3 x 11 mods)	BBL250
Enclosure size 3	GN605025	GN604020 + CH6040 (4 x 16 mods)	BBL400
Enclosure size 4	GN504025	GN504020 + CH5040 (3 x 16 mods)	BBL400

ISOLATOR SWITCHES ENCLOSED IP55

Metalclad Isolator Switches 4 Pole - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
GSW463 IP55M	63	4	1	55	200	300	150	166.94
GSW4125 IP55M	125	4	2	55	300	400	200	313.07
GSW4200 IP55M	200	4	2	55	300	400	200	408.38
GSW4250 IP55M	250	4	3	55	300	400	200	511.79
GSW4400 IP55M	400	4	4	55	500	600	250	748.23

Metalclad Isolator - IP55 Accessories

Item	Cable Entry/ Cable Exit	For Distribution Use	Link Box
Enclosure size 1	GN302015	GN302515 + CH3025 (2 x 8 mods)	BBL160
Enclosure size 2	GN403020	GN403020 + CH4030 (3 x 11 mods)	BBL250
Enclosure size 3	GN605025	GN604020 + CH6040 (4 x 16 mods)	BBL400
Enclosure size 4	GN504025	GN504020 + CH5040 (3 x 16 mods)	BBL400

Page 32

FUSE SWITCHES - ENCLOSED IP55 - BS Type

Metalclad Fuse Switches 3 Pole - IP55

Item	Rating (A)	Poles	Fuse Size	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
GFS332 IP55MBS	32	3	A1	1	55	300	200	150	228.50
GFS363 IP55MBS	63	3	A2-A3	2	55	400	300	200	342.77
GFS3100 IP55MBS	100	3	A4	3	55	400	300	200	394.45
GFS3125 IP55MBS	160	3	A3-A4	3	55	400	300	200	405.19
GFS3200 IP55MBS	200	3	B1-B2	3	55	600	500	250	747.19
GFS3400 IP55MBS	400	3	B1-B4	4	55	600	500	250	943.79



FS332 IP55BS

Metalclad Isolator - IP55 Accessories

Item	Cable Entry/ Cable Exit	For Distribution Use	Link Box
Enclosure size 1	GN302015	GN302515 + CH3025 (2 x 8 mods)	BBL160
Enclosure size 2	GN403020	GN403020 + CH4030 (3 x 11 mods)	BBL250
Enclosure size 3	GN605025	GN604020 + CH6040 (4 x 16 mods)	BBL400
Enclosure size 4	GN504025	GN504020 + CH5040 (3 x 16 mods)	BBL400

Page 32

FUSE SWITCHES - NH TYPE - ENCLOSED IP65

Polyester Fuse Switches - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
FS32 IP65P	32	3	65	250	300	140	451.12
FS63 IP65P	63	3	65	250	300	140	521.83
FS125 IP65P	125	3	65	300	400	200	606.77
FS160 IP65P	160	3	65	300	400	200	620.92
FS250 IP65P	250	3	65	500	600	230	920.23
FS400 IP65P	400	3	65	600	800	300	1,258.01



FS332 IP55NH

FUSE SWITCHES -NH TYPE - ENCLOSED IP55

Metalclad Fuse Switches 3 Pole - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
GFS363 IP55MNH	63	3	2	55	300	400	200	355.10
GFS3125 IP55MNH	125	3	3	55	300	400	200	507.71
GFS3160 IP55MNH	160	3	3	55	300	400	200	510.59
GFS3200 IP55MNH	200	3	4	55	500	600	250	932.77
GFS3250 IP55MNH	250	3	4	55	500	600	250	932.77
GFS3400 IP55MNH	400	3	4	55	500	600	250	1,105.28

**above 400A available on request **



FS3250 IP55NH

Metalclad Isolator - IP55 Accessories

Item	Cable Entry/ Cable Exit	For Distribution Use	Link Box
Enclosure size 1	GN302015	GN302515 + CH3025 (2 x 8 mods)	BBL160
Enclosure size 2	GN403020	GN403020 + CH4030 (3 x 11 mods)	BBL250
Enclosure size 3	GN605025	GN604020 + CH6040 (4 x 16 mods)	BBL400
Enclosure size 4	GN504025	GN504020 + CH5040 (3 x 16 mods)	BBL400

METAL BUSBAR LINK - ENCLOSED IP55

Metalclad Busbar Link Box - IP55

Item	Description	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
BBL160	Enclosed Metal Busbar Link	160	3P & N	55	320	395	175	262.33
BBL250	Enclosed Metal Busbar Chamber	250	3P & N	55	320	395	175	502.74
BBL400	Enclosed Metal Busbar Chamber	400	3P & N	55	800	600	250	697.88

CHANGEOVER SWITCHES - ENCLOSED IP53 - IP55 - IP65

Metalclad Changeover Switches - IP53

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
CO 25 IP53M	25	3	53	220	270	117	87.63
CO 32 IP53M	32	3	53	220	270	117	89.03
CO 40 IP53M	40	3	53	220	270	117	94.67
CO 63 IP53M	63	3	53	220	270	117	99.53
CO 80 IP53M	80	3	53	250	370	130	185.23
CO 100 IP53M	100	3	53	250	370	130	195.17
CO 125 IP53M	125	3	53	250	370	130	210.04



CO 80 IP53M

Metalclad Changeover Switches - IP55

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
GCO 3 125 IP55M	125	3	55	500	400	250	704.81
GCO 3 160 IP55M	160	3	55	500	400	250	746.28
GCO 3 200 IP55M	160	3	55	500	400	250	948.71
GCO 3 250 IP55M	250	3	55	500	400	250	986.03
GCO 3 400 IP55M	400	3	55	500	400	250	1,280.72



CO 160 IP55M

Polyester Changeover Switches - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
CO 25 IP65P	25	4	65	190	280	130	98.42
CO 32 IP65P	32	4	65	190	280	130	102.39
CO 40 IP65P	40	4	65	190	280	130	105.69
CO 63 IP65P	63	4	65	190	280	130	110.69
CO 80 IP65P	80	4	65	342	253	129	234.03
CO 100 IP65P	100	4	65	342	253	129	246.94
CO 125 IP65P	125	4	65	300	200	140	570.29
CO 160 IP65P	160	4	65	400	500	200	822.05
CO 250 IP65P	250	4	65	400	600	230	1,061.85
CO 400 IP65P	400	4	65	600	800	300	1,467.37



CO 63 IP65P

METAL CLAD SWITCHGEAR

Meter Box

Item	Description	Rating (A)	Width mm	Height mm	Depth mm	Trade Price
ESBCT4	ESB CT Chamber	250A	500	500	250	415.08

Metalclad Enclosed Switchgear Link Box Complete- IP65

Item	Description	IP	Width mm	Height mm	Depth mm	Trade Price
LINKBOX70	5 x 16sq - 120sq Link Box	65	320	395	175	296.40
LINKBOX185	5 x 70sq - 185sq Link Box	65	320	395	175	406.26

ACCESSORIES

Item	Description	Trade Price
NPE 35	Neutral - Earth Terminal 35mm	12.44
NPE 120	Neutral - Earth Terminal 120mm	39.92
TBN185	Neutral - Earth Terminal 185mm	56.49
SEAL	Sealing Screw 5mm	2.15
SEALKIT	GPK Sealing Kit	15.49



NPE35



NPE120

TPN - Surface Metal IP41

Exclusive design for surface mounting. The housing is manufactured in metal and is also fitted with a door. Each unit is supplied with earth and neutral blocks.

Metal TPN Boards 125A

Item	Ways	Rating (A)	Width mm	Height mm	Depth mm	Trade Price
GTPN12	12	125	465	506	105	118.73
GTPN18	18	125	465	560	105	131.00
GTPN24	24	125	465	614	105	143.27
GTPN30	30	125	465	668	105	167.28
GTPN36	36	125	465	722	105	192.39
GTPN42	42	125	465	777	105	222.42
GTPN48	48	125	465	830	105	251.07
GTPN54	54	125	465	884	105	294.73
GTPN72	72	125	465	1,046	105	368.42



Metal TPN Boards 125A Accessories

Item	Description	Width mm	Height mm	Depth mm	Trade Price
GTPNH1	TPN header box 16 module	465	266	105	34.21
GTPNH2	Cable entry spreader box	465	206	105	23.05
GTPNH3	Cable entry meter box	465	206	105	22.30
GTPN-ADAPTOR	Adaptor TPN to S Phase				5.47
METAL BLANK	1 Mod Metal Blank				0.45
GCD100-4-03	4Pole 100A 30mA RCCB				239.51
GSV4125	4Pole 125A Isolator				42.51
GNM3TD-CT160	Multi function meter c/w 160CT (GNT160)				264.86

MCB's & RCD's pages 3 -9

RESIDUAL CURRENT BREAKER with Overcurrent Protection (RCBO) 10kA

Type A, 1P + N RCBO. Certified to IEC 61009-1

2 Pole 6kA Curve - B

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBOLIB06A	6	1		30	1-6	39.70
RCBOLIB10A	10	1		30	1-6	39.70
RCBOLIB16A	16	1		30	1-6	39.70
RCBOLIB20A	20	1		30	1-6	39.70
RCBOLIB25A	25	1		30	1-6	39.70
RCBOLIB32A	32	1		30	1-6	39.70
RCBOLIB40A	40	1		30	1-6	42.37
RCBOLIB45A	45	1		30	1-6	42.37

2 Pole 6kA Curve - C

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBOLIC06A	6	1		30	1-6	39.70
RCBOLIC10A	10	1		30	1-6	39.70
RCBOLIC16A	16	1		30	1-6	39.70
RCBOLIC20A	20	1		30	1-6	39.70
RCBOLIC25A	25	1		30	1-6	39.70
RCBOLIC32A	32	1		30	1-6	39.70
RCBOLIC40A	40	1		30	1-6	42.37
RCBOLIC45A	45	1		30	1-6	42.37



DISCONNECTORS

FUSE SWITCH DISCONNECTS

Item	Rating (A)	Size	Trade Price
GKVL-00	160A	3 Pole NH00	45.01
GKVL-1	250A	3 Pole NH1	134.92
GKVL-2	400A	3 Pole NH2	214.31
GKVL-3	630A	3 Pole NH3	283.42



707.037.001

FUSE DISCONNECTORS

Item	Rating (A)	Poles	Size	Trade Price
EFD 101P	32A	1	10 x 38	3.23
EFD 102P	32A	2	10 x 38	7.07
EFD 103P	32A	3	10 x 38	10.18
EFD 221P	100A	1	22 x 58	12.41
EFD 223P	100A	3	22 x 58	40.18



EFD 101P



EFD 103P



EFD 221P



EFD 223P

FUSES - Cylindrical - DO

DO Fuses gG(gl)

Item	Rating (A)	Type	Trade Price
6NZ01	6	DO1	0.64
20NZ02	20	DO2	0.64
25NZ02	25	DO2	0.64
35NZ02	35	DO2	0.64
50NZ02	50	DO2	0.85
63NZ02	63	DO2	0.85



63NZ02

Fuses Cylindrical

Item	Rating (A)	Type	Size	Trade Price
FUSE 2A	2	10 X 38	0	0.99
FUSE 4A	4	10 X 38	0	0.62
FUSE 6A	6	10 X 38	0	0.71
FUSE 10A	10	10 X 38	0	0.51
FUSE 16A	16	10 X 38	0	0.92
FUSE 20A	20	10 X 38	0	0.92
FUSE 25A	25	10 X 38	0	0.99
FUSE 32A	32	10 X 38	0	0.99
MS63	63	22 X 58	2	3.05
MS80	80	22 X 58	2	3.05
MS100	100	22 X 58	2	3.05



FUSE 6A

FUSES NH 120kA gL-gC

Item	Rating (A) NH00C	Trade Price
NV00C 6A	6	3.67
NV00C 10A	10	3.67
NV00C 16A	16	3.67
NV00C 20A	20	3.67
NV00C 25A	25	2.87
NV00C 35A	35	2.87
NV00C 40A	40	2.87
NV00C 50A	50	2.87
NV00C 63A	63	2.79
NV00C 80A	80	3.24
NV00C 100A	100	3.24
NH00		
NV00 125A	125	4.27
NV00 160A	160	4.27
NH1		
NV1 200A	200	8.10
NV1 250A	250	8.10
NH1C		
NV1C 63A	63	5.71
NV1C 80A	80	5.71
NV1C 100A	100	5.71
NV1C 125A	125	5.71
NV1C 160A	160	5.71
NH2C		
NV2C 63A	63	9.09
NV2C 80A	80	9.09
NV2C 100A	100	9.09
NV2C 125A	125	9.09
NV2C 160A	160	8.83
NV2C 200A	200	9.09
NV2C 250A	250	9.09
NH2		
NV2 315A	315	10.28
NV2 355A	355	10.28
NV2 400A	400	10.28
NH3C		
NV3C 250A	250	16.03
NV3C 315A	315	16.03
NV3C 355A	355	16.03
NV3C 400A	400	16.03
NH3		
NV3 500A	500	17.91
NV3 630A	630	17.91
NH4		
NV4 630A	630	67.59
NV4 800A	800	67.59
NV4 1000A	1000	71.28



Wall Mounted Charger - GLB

	BASIC	STANDARD	PREMIUM
Basic Charging	Y	Y	Y
Socket or Tethered Option(5m Cable)	Socket	Either	Either
Motorised Interlock	Y	Y	Y
Output Options 6 - 32A set by dip switch	Y	Y	Y
Available output range set by dip switch	3.7kW - 22kW	3.7kW - 22kW	3.7kW - 22kW
Optional Pillar	O	O	O
Master Slave configuration - max 32 chargers		Y	Y
Metering	O	O	O
Dynamic Load Balancing		Y	Y
Input for timer / low tariff selection		Y	Y
Built-in DC Leakage Control			Y
Wi-Fi Module			O
Communication			4G / Lan / Wi-Fi
RFID access control			O
Cloud Reporting system			O
OCPP			1.5 / 1.6

"O" Optional extra

* Note: Dynamic Load Balancing requires meter (sold separately)

Item	Model Type & Connection	Additional Features	Trade Price
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Basic (Not Upgradeable)

GLB-T222WO-B	3.7 kW - 22 kW Socket Type 2	None	759.47
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Standard (Not Upgradeable)

GLB-T222WO	3.7 kW - 22 kW Socket Type 2	DLM *	884.32
GLB-T222FC	3.7 kW - 22 kW Fixed Lead Type 2	DLM *	936.34
GLB-T174FC	7.4 kW Fixed Lead Type 2	DLM *	904.09

Premium (Upgradeable)

GLBDC-T222WO	3.7 kW - 22 kW Socket Type 2	DLM & DC Monitoring	1,220.37
GLBDC-T222FC	3.7 kW - 22 kW Fixed Lead Type 2	DLM & DC Monitoring	1,351.45
GLBDCM-T222WO	3.7 kW - 22 kW Socket Type 2	DLM & DC & Metering	1,362.89
GLBDCM-T222FC	3.7 kW - 22 kW Fixed Lead Type 2	DLM & DC & Metering	1,477.33

Full OCPP Models

GLB-DC-LAN-PLUS	Socket Type 2 7.4kW RCBO RFID LAN	DLM & DC & Metering	2,143.17
GLB-DC-MC-PLUS	Socket Type 2 7.4kW RCBO RFID 4G	DLM & DC & Metering	2,580.13
GLB-B-DCMT222WOL	Socket Type 2 22kW RFID LAN	DLM & DC & Metering	2,024.38
GLB-B-DCMT222WOM	Socket Type 2 22kW RFID 4G	DLM & DC & Metering	2,547.13

Option

GLB-WiFi	Wi-Fi Module		305.87
GLB-RFID	RFID Reader Module (must be used with Wi-Fi module)		105.08
RFID Cards	RFID Cards		57.43
GNM1D-RS485	GARO SP meter 45A RS485		73.19
GNM1D-100-RS485	GARO SP meter 100 Amp RS485 DLM		138.01
GNM3D-RS485	GARO TP meter 63 Amp RS485 DLM		155.30
DV1KT3	Time Switch for Tariff Management		73.48
ST-GHL	Single Charger Pillar		533.60
ST-GHL-D	Double Charger Pillar		570.75
Available Options:	GLB Front Cover - Customer Spec Wrapping / Logo		
	GLB Cover moulded in Ruby, Grey or White		

* DLM Dynamic Load Management / Balancing Option



STREET CHARGER - LS4

	LAN & LANC	MC & MCC	AU & AUC
Basic Charging	Y	Y	Y
Type 2 Sockets	x 2	x 2	x 2
Motorised Interlock	Y	Y	Y
Output Factory Set	Y	Y	Y
Dynamic Load Balancing (see external meters below)	Y	Y	Y
Metering	Y	Y	Y
Core Balanced Protection (no nuisance tripping)	Y	Y	Y
Full Open OCPP	Y	Y	Y
PC Browser Interface	Y	Y	Y
LAN	Y	Y	Y
Wi-Fi	Y	Y	Y
RFID access control	Y	Y	Y
DC Leakage Protection	Y	Y	Y
Suitable for Wall Mounting		Y	Y
Comprehensive Cloud Reporting system	Y	Y	Y
4G Built in Modem		Y	Y
Auto Reclosing MCB / RCCB			Y



Item	Description	Trade Price
Standard (Tall) LAN Versions		
LS4DCMT274WO-LAN	2 x 7.4kw Outlets Metered, LAN & RFID	5,323.70
LS4DCMT222WO-LAN	2 x 22kw Outlets Metered, LAN & RFID	5,393.08
Standard (Tall) 4G Versions		
LS4DCMT274WO-MC	2 x 7.4kw Outlets Metered, LAN, RFID & 4G	5,796.76
LS4DCMT222WO-MC	2 x 22kw Outlets Metered, LAN, RFID & 4G	5,897.70
Compact Lan Versions		
LS4DCMT274WO-LANC	Compact 2 x 7.4kw Outlets Metered, LAN & RFID	5,323.70
LS4DCMT222WO-LANC	Compact 2 x 22kw Outlets Metered, LAN & RFID	5,393.08
Compact 4G Versions		
LS4DCMT274WO-MCC	Compact 2 x 7.4kw Outlets Metered, LAN, RFID & 4G	5,796.76
LS4DCMT222WO-MCC	Compact 2 x 22kw Outlets Metered, LAN, RFID & 4G	6,049.08
Premium AUTO		
	Self Closing RCBO / RCCB	
LS4M-T222W 4G AU	2 x 22kw Outlets Metered, LAN, RFID & 4G	7,990.55
LS4M-T222W 4G AUC	Compact 2 x 22kw Outlets Metered, LAN, RFID & 4G	7,990.55

All models:

Full Wrapping available to Customer Specification

External DLM Meter		Current Limit	
GNM3D-RS485	63A	63A	155.30
DLM200	DLM Meter+ 200A S/Core CT + CT Kit	200A	683.00
DLM250	DLM Meter+ 250A S/Core CT + CT Kit	250A	683.00
DLM400	DLM Meter+ 400A S/Core CT + CT Kit	400A	683.00

DC Fast Charging with the QC Range

For Service Stations, Shopping Centres etc.

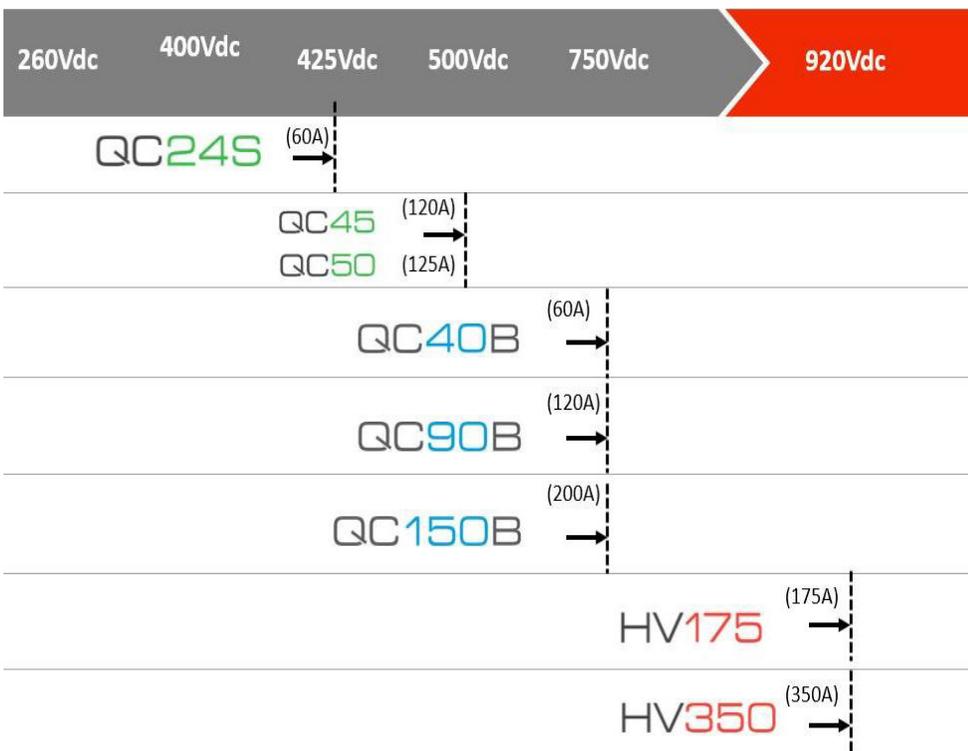
DC chargers differ from normal charging by transferring DC voltage directly to the car's battery without using the car's onboard inverter. This in turn allows significantly faster charging times.

Indication charging times to fully charge a standard electric car from empty.

325 kW DC Charger 7 minutes
 50 kW DC Charger 45 minutes

GARO's DC chargers are available with a fixed connection cable for DC charging and a 22KW socket for AC charging.

DC chargers always incorporate a back office solution and billing and are available from 45 kW to new "ultra fast" 325 kW.



DC CHARGER RANGE 45KW - VEHICLES

Item		Trade Price
QC45 DCA DCC AC2 2S C	CCS, CHAdemo & AC22, Cold Option 45kW	42,025.00



“FAST” DC ELECTRIC VEHICLE CHARGING

DC CHARGER RANGE 40 - 150KW - BUS

Item			Trade Price
QC45 DCA DCC AC2 2S C	CCS, CHAdEMO & AC22, Cold Option	45kW	42,025.00
QC40B DCC C	On board CCS control, RFID, Cold Option	40kW	39,052.50



DC CHARGER ULTRA FAST CHARGER 175 - 325 KW

GAROs New Generation High Power charger can deliver 2x175A or 1x350A. The charging voltage is up to 920V with a voltage up to 350A DC.

- New Design
- Power supply 500A/400V
- Connection: CCs, 2x175A to CCS, 1x350A, Chademo 1x125A
- Communication via LAN, 3G/4G
- Can be equipped with different billing systems



PHOTO - VOLTAIC

GARO Photo Voltaic systems are designed to generate electricity at a local level. The systems will offset the high cost of electricity and also meet the requirements of Part L of the building regulations.

GARO Photo voltaic Panels are manufactured in Europe and fully comply and are manufactured to IEC 61215 & IEC 61730. They are available from 310 watt. 25 year efficiency warranty

GARO Micro Inverters are manufactured in Europe and fully comply and are manufactured to IEC 50438, IEC 62109, IEC61000 & G83/2. Maximum per panel output of 310 watt. 25 year limited warranty

GARO String Inverters are manufactured in Europe and fully comply and are manufactured to IEC 50438, IEC 62109, IEC61000, G59/3 & G83/2. They are available from 3KW to 1MEGA watt. 7 year warranty

GARO's comprehensive range of mounting systems have been fully tested for the worst weather conditions. All our components are stainless steel or marine grade aluminium. 10 year durability warranty

COMMERCIAL PV

Turnkey Service: Full Design & Commissioning Service

Comprehensive reliable warranties

Garo's Medium Voltage switchgear



PV Panel Kits - Micro Inverters

Item	Comprising:-	RCBO	Meter	PV Panels	MICRO Inverters	Trade Price
GPVM 1-Panel Kit	Panel, Inverter, Meter, & Fixings 260 watt	6A	GM1D	1	1	744.15
GPVM 2-Panel Kit	Panels, Inverters, Meter, & Fixings 520 watt	6A	GM1D	2	2	1,371.45
GPVM 3-Panel Kit	Panels, Inverters, Meter, & Fixings 780 watt	10A	GM1D	3	3	2,048.72
GPVM 4-Panel Kit	Panels, Inverters, Meter, & Fixings 1040 watt	10A	GM1D	4	4	2,698.00
GPVM 5-Panel Kit	Panels, Inverters, Meter, & Fixings 1300 watt	10A	GM1D	5	5	3,340.99
GPVM 6-Panel Kit	Panels, Inverters, Meter, & Fixings 1560 watt	20A	GM1D	6	6	4,026.00
GPVM 7-Panel Kit	Panels, Inverters, Meter, & Fixings 1820 watt	20A	GM1D	7	7	4,677.38
GPVM 8-Panel Kit	Panels, Inverters, Meter, & Fixings 2080 watt	20A	GM1D	8	8	5,326.67

PV Panel Kits - String Inverter

Item	Comprising:-	PV Panels	String Inverter	Trade Price
GPVS 3-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 780 watt	3	1	1,790.26
GPVS 4-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1040 watt	4	1	2,174.79
GPVS 5-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1300 watt	5	1	2,550.92
GPVS 6-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1560 watt	6	1	2,971.17
GPVS 7-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1820 watt	7	1	3,313.67
GPVS 8-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 2080 watt	8	1	3,706.60

SOLAR DC Isolators

	Rating (A)	Poles	IP Rating	Trade Price
SS 416 IP65 DC	16	2	65	25.13
SS 432 IP65 DC	32	4	65	39.09



SS 416 IP65 DC

SOLAR DC Contactors

	Rating 600V DC1	Poles	IP Rating	Trade Price
KNL16 PV600	16A	3	67	250.00
KNL48 PV600	48A	3	67	310.00

ENCLOSED DC CONTACTORS

	Rating (A)	Push Button	Width mm	Height mm	Depth mm	Trade Price
KNL16 PV600C	16A	-	151	175	155	276.75
KNL48 PV600C	48A	Y	320	395	175	338.25

PLUGS 16A - 63A IP44

Connectable cable size:

16A, 1-2,5 mm²

32A, 2,5-6 mm²

63A, 6 -16 mm²

Degree of protection IP44

Accessories:

16A Cover Type TL216S

32A Cover Type TL232S

63A Cover Type TL63S



P216 - 6S



P463 - 6S

Item	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
P 216-4 S	3 2p + E	100-130	50-60	4 ■	10	3.42
P 216-6 S		200-250	50-60	6 ■	10	3.34
P 232-4 S		100-130	50-60	4 ■	10	10.71
P 232-6 S		200-250	50-60	6 ■	10	10.71
P 263-4 S		100-130	50-60	4 ■	2	43.28
P 263-6 S		200-250	50-60	6 ■	2	33.21
P 316-4 S	4 3p + E	100-130	50-60	4 ■	10	6.56
P 316-6 S		380-415	50-60	6 ■	10	6.56
P 332-4 S		100-130	50-60	4 ■	10	11.28
P 332-6 S		380-415	50-60	6 ■	10	11.28
P 363-4 S		100-130	50-60	4 ■	2	40.55
P 363-6 S		380-415	50-60	6 ■	2	34.05
P 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	5.15
P 416-6 S		200-415	50-60	6 ■	10	7.30
P 432-4 S		100-130	50-60	4 ■	10	11.92
P 432-6 S		200-415	50-60	6 ■	10	11.92
P 463-4 S		100-130	50-60	4 ■	2	49.17
P 463-6 S		200-415	50-60	6 ■	2	35.72

Other clock positions are produced to order.

PLUGS WATERTIGHT 16A - 63A IP67

Connectable cable size:

16A 1-2,5 mm²

32A 2,5-6 mm²

63A 6-16 mm²

125A 16-50 mm²

Degree of protection IP67

Accessories: Cover



PV 316-6S



PV 316-4S

Item	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
PV 216-4S		100-300	50-60	4 ■	10	7.20
PV 216-6S		200-250	50-60	6 ■	10	7.20
PV 232-4S		100-130	50-60	4 ■	10	12.79
PV 232-6S	3	200-250	50-60	6 ■	10	13.11
PV 263-4S	2p + E	100-130	50-60	4 ■	2	32.75
PV 263-6S		200-250	50-60	6 ■	2	25.97
PV 2125-4S		100-130	50-60	4 ■	2	133.29
PV 2125-6S		200-250	50-60	6 ■	2	133.29
PV 316-4S		100-130	50-60	4 ■	10	8.53
PV 316-6S		380-415	50-60	6 ■	10	8.53
PV 332-4S		100-130	50-60	4 ■	10	13.75
PV 332-6S	4	380-415	50-60	6 ■	10	13.75
PV 363-4S	3p + E	100-130	50-60	4 ■	2	34.77
PV 363-6S		380-415	50-60	6 ■	2	34.77
PV 3125-4S		100-130	50-60	4 ■	2	143.14
PV 3125-6S		380-415	50-60	6 ■	2	143.14
PV 416-4S		100-130	50-60	4 ■	10	9.57
PV 416-6S		200-415	50-60	6 ■	10	9.57
PV 432-4S		100-130	50-60	4 ■	10	15.49
PV 432-6S	5	200-415	50-60	6 ■	10	15.49
PV 463-4S	3p + N + E	100-130	50-60	4 ■	2	45.82
PV 463-6S		200-415	50-60	6 ■	2	35.44
PV 4125-4S		100-130	50-60	4 ■	2	147.55
PV 4125-6S		200-415	50-60	6 ■	2	147.55

Other clock positions are produced to order.

PLUGS ANGLED 16A and 32A IP44

Connectable cable size:

16A: 1-2,5 mm²

32A: 2,5-6 mm²

Degree of protection IP44



PA 216 - 6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
PA 216-6 S	3 2p + E	200-250	50-60	6 ■	10	16.89
PA 416-4 S		100-130	50-60	4 ■	10	19.35
PA 416-6 S	5 3p + N + E	200-415	50-60	6 ■	10	18.60
PA 432-6 S		200-415	50-60	6 ■	10	26.58

PHASE INVERTER 16A and 32A IP44

Connector size:

16A: 1-2,5 mm²

32A: 2,5-6 mm²

Degree of protection IP44.

Accessories:

Covers TL416S, TL432S



FV 416 - 6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
FV 316-6 S	4 2p + N + E	380-415	50-60	6 ■	10	17.09
FV 416-6 S	5 3p + N + E	200-415	50-60	6 ■	10	17.09
FV 432-6 S	5 3p + N + E	200-415	50-60	6 ■	10	18.07

Other clock positions are produced to order.

COUPLERS 16A - 63A IP44

Connectable cable size:

16A: 1-2,5 mm²

32A: 2,5-6 mm²

63A: 6-16 mm²

Degree of protection IP44



S 216-6S



S 216-4S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
S 216-4 S	3 2p + E	100-130	50-60	4	10	5.56
S 216-6 S		200-250	50-60	6	10	5.56
S 232-4 S		100-130	50-60	4	10	12.88
S 232-6 S		200-250	50-60	6	10	12.88
S 263-4 S		100-130	50-60	4	2	32.54
S 263-6 S		200-250	50-60	6	2	32.54
S 316-4 S	4 3p + E	100-130	50-60	4	10	6.96
S 316-6 S		380-415	50-60	6	10	6.96
S 332-4 S		100-130	50-60	4	10	13.46
S 332-6 S		380-415	50-60	6	10	13.46
S 363-4 S		100-130	50-60	4	2	32.54
S 363-6 S		380-415	50-60	6	2	32.54
S 416-4 S	5 3p + N + E	100-130	50-60	4	10	12.96
S 416-6 S		200-415	50-60	6	10	11.16
S 432-4 S		100-130	50-60	4	10	15.49
S 432-6 S		200-415	50-60	6	10	13.76
S 463-4 S		100-130	50-60	4	2	35.55
S 463-6 S		200-415	50-60	6	2	35.55

Other clock positions are produced to order.

COUPLERS WATERTIGHT 16A - 125A IP67

Waterproof design

Connectable cable size:

16A: 1-2,5 mm²

32A: 2,5-6 mm²

63A: 6-16 mm²

125A: 16-50 mm²

Degree of protection IP67



SV 332-4S



SV 316-6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
SV 216-4S	3 2p + E	100-130	50-60	4	10	9.79
SV 216-6S		200-250	50-60	6	10	9.79
SV 232-4S		100-130	50-60	4	10	17.06
SV 232-6S		200-250	50-60	6	10	17.06
SV 263-4S		100-130	50-60	4	2	50.15
SV 263-6S		200-250	50-60	6	2	37.53
SV 2125-4S	4 3p + E	100-130	50-60	4	2	160.95
SV 2125-6S		200-250	50-60	6	2	160.95
SV 316-4S		100-130	50-60	4	10	12.46
SV 316-6S		380-415	50-60	6	10	11.15
SV 332-4S		100-130	50-60	4	10	18.15
SV 332-6S		380-415	50-60	6	10	18.15
SV 363-4S	5 3p + N + E	100-130	50-60	4	2	40.45
SV 363-6S		380-415	50-60	6	2	40.45
SV 3125-4S		100-130	50-60	4	2	162.03
SV 3125-6S		380-415	50-60	6	2	162.03
SV 416-4S		100-130	50-60	4	10	12.48
SV 416-6S		200-415	50-60	6	10	12.79
SV 432-4S	5 3p + N + E	100-130	50-60	4	10	20.15
SV 432-6S		200-415	50-60	6	10	20.15
SV 463-4S		100-130	50-60	4	2	37.76
SV 463-6S		200-415	50-60	6	2	49.47
SV 4125-4S		100-130	50-60	4	2	168.17
SV 4125-6S		200-415	50-60	6	2	168.17

Other clock positions are produced to order.

WALL SOCKET 16A - 63A IP44

For wall and machine mounting with cable connection from top & back

Connectable cable size:

16A: 1-2,5 mm². Solid cable 1-4 mm²

32A: 2,5-6 mm². Solid cable 2,5-10 mm²

63A: 6-16 mm² and solid cable 6-25 mm²

Supplied with cable gland entry

Degree of protection IP44



UI 232-6 S-RU

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UI 216-4 S - RU	3 2p + E	100-130	50-60	4 ■	10	7.33
UI 216-6 S - RU		200-250	50-60	6 ■	10	7.33
UI 232-4 S - RU		100-130	50-60	4 ■	10	13.76
UI 232-6 S - RU		200-250	50-60	6 ■	10	13.76
UI 316-4 S - RU	4 3p + E	100-130	50-60	4 ■	10	12.68
UI 316-6 S - RU		380-415	50-60	6 ■	10	9.10
UI 332-4 S - RU		100-130	50-60	4 ■	10	14.04
UI 332-6 S - RU		380-415	50-60	6 ■	10	14.04
UI 416-4 S - RU	5 3p + N +E	100-130	50-60	4 ■	10	11.16
UI 416-6 S - RU		200-415	50-60	6 ■	10	11.16
UI 432-4 S - RU		100-130	50-60	4 ■	10	16.01
UI 432-6 S - RU		200-415	50-60	6 ■	10	15.62



UI 216-4 DE-RU

Wall sockets with double entry

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UI 216-4 DE - RU	3 2p + E	100-130	50-60	4 ■	10	12.07
UI 216-6 DE - RU		200-250	50-60	6 ■	10	10.06
UI 232-6 DE - RU		200-250	50-60	6 ■	10	16.31
UI 263-4 S - RU	4 3p + E	100-130	50-60	4 ■	2	55.06
UI 263-6 S - RU		200-250	50-60	6 ■	2	44.28
UI 316-6 DE - RU		380-415	50-60	6 ■	10	14.55
UI 332-6 DE -RU	5 3p + N +E	380-415	50-60	6 ■	10	16.95
UI 363-4 S - RU		100-130	50-60	4 ■	2	57.99
UI 363-6 S - RU		380-415	50-60	6 ■	2	47.04
UI 416-6 DE - RU		200-415	50-60	6 ■	10	15.64
UI 432-6 DE - RU		200-415	50-60	6 ■	10	19.50
UI 463-4 S - RU		100-130	50-60	4 ■	2	63.47
UI 463-6 S - RU		200-415	50-60	6 ■	2	50.39

Other clock positions are produced to order.

WALL SOCKET WATERTIGHT 16A - 125A IP67

For wall mounting with cable connection from top & back

Connectable cable size:

16A: 1-2,5 mm² & Solid cable 1-4 mm²

32A: 2,5-10 mm² & Solid cable 2,5-10 mm²

63A: 6-16 mm² & Solid cable 6-25 mm²

125A: 5 x 50 mm² to terminal block

Flexible 16-50 mm² and solid cable 16-70 mm²

Degree of protection IP67



UIV 316-6S - RU

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UIV 216-4S - RU	3 2p + E	100-130	50-60	4	5	14.54
UIV 216-6S - RU		200-250	50-60	6	5	14.54
UIV 232-4S - RU		100-130	50-60	4	5	19.51
UIV 232-6S - RU		200-250	50-60	6	5	19.51
UIV 263-4S - RU		100-130	50-60	4	2	41.86
UIV 263-6S - RU		200-250	50-60	6	2	41.86
UIV 2125-4S - RU	4 3p + E	100-130	50-60	4	1	184.86
UIV 2125-6S - RU		200-250	50-60	6	1	184.86
UIV 316-4S - RU		100-130	50-60	4	5	15.49
UIV 316-6S - RU		380-415	50-60	6	5	15.49
UIV 332-4S - RU		100-130	50-60	4	5	20.21
UIV 332-6S - RU		380-415	50-60	6	5	20.21
UIV 363-4 - RV	5 3p + N + E	100-130	50-60	4	2	36.01
UIV 363-6 - RV		380-415	50-60	6	2	36.01
UIV 3125-4 - RV		100-130	50-60	4	1	189.58
UIV 3125-6S - RU		380-415	50-60	6	1	189.58
UIV 416-4 - RV		100-130	50-60	4	5	16.50
UIV 416-6S - RU		200-415	50-60	6	5	16.50
UIV 432-4 - RV	5 3p + N + E	100-130	50-60	4	5	22.19
UIV 432-6S - RU		200-415	50-60	6	5	22.19
UIV 463-4 - RV		100-130	50-60	4	2	52.13
UIV 463-6S - RU		200-415	50-60	6	2	50.12
UIV 4125-4 - RV		100-130	50-60	4	1	224.35
UIV 4125-6S - RU		200-415	50-60	6	1	229.96

Other clock positions are produced to order.

WALL INLET 16A - 63A IP44

For wall mounting with cable connection possible from top & bottom

Connectable cable size:

16A: 1-2,5 mm² & Solid cable 1-4 mm²

32A: 2,5-6 mm² & Solid cable 2,5-10 mm²

63A: 6-25 mm²

Supplied with sealed gland entry M40

Degree of protection IP44.



II 232S - RI



II 216-4S - RI

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
II 216-4 S - RI	3 2p + E	100-130	50-60	4 ■	10	11.76
II 216-6 S - RI		200-250	50-60	6 ■	10	11.76
II 232-4 S - RI		100-130	50-60	4 ■	10	14.59
II 232-6 S - RI		200-250	50-60	6 ■	10	14.23
II 263-6 S - RI		200-250	50-60	6 ■	2	47.49
II 316-4 S - RI	4 3p + E	100-130	50-60	4 ■	10	11.14
II 316-6 S - RI		380-415	50-60	6 ■	10	12.24
II 332-4 S - RI		100-130	50-60	4 ■	10	15.74
II 332-6 S - RI		380-415	50-60	6 ■	10	15.74
II 363 6 S - RI		380-415	50-60	6 ■	2	50.95
II 416-4 S - RI	5 3p + N + E	100-130	50-60	4 ■	10	12.04
II 416-6 S - RI		200-415	50-60	6 ■	10	12.54
II 432-4 S - RI		100-130	50-60	4 ■	10	41.52
II 432-6 S - RI		200-415	50-60	6 ■	10	24.96
II 463-6 S - RI		380-415	50-60	6 ■	2	57.56

Other clock positions are produced to order.

WALL INLET WATERTIGHT 16A - 125A IP67

Waterproof inlet for wall mounting

Connectable cable size:

16A: 1-2,5 mm² & 1-4 mm² for solid cable

32A: 2,5-6 mm² & for solid cable 2,5-10 mm²

63A: 6-16 mm² & for solid cable 6-25 mm²

125A: 16-50 mm² & for solid cable 16-70 mm²

Degree of protection IP67.



IIV 216-6S + RI



IIV 463-6S - RI

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
IIV 216-4S - RI	3 2p + E	100-130	50-60	4	10	26.06
IIV 216-6S - RI		200-250	50-60	6	10	26.06
IIV 232-4S - RI		100-130	50-60	4	10	35.13
IIV 232-6S - RI		200-250	50-60	6	10	35.13
IIV 263-4S - RI		100-130	50-60	4	2	82.78
IIV 263-6S - RI		200-250	50-60	6	2	75.83
IIV 2125-4 - RI	4 3p + E	100-130	50-60	4	1	201.12
IIV 2125-6 - RI		200-250	50-60	6	1	192.76
IIV 332-4S - RI		100-130	50-60	4	10	50.56
IIV 332-6S - RI		380-415	50-60	6	10	50.56
IIV 363-6S - RI		380-415	50-60	6	2	51.66
IIV 3125-4 - RI		100-130	50-60	4	1	216.91
IIV 3125-6S - RI	5 3p + N + E	380-415	50-60	6	1	208.08
IIV 416-4S - RI		100-130	50-60	4	10	30.26
IIV 416-6SS - RI		200-415	50-60	6	10	30.01
IIV 432-4S - RI		100-130	50-60	4	10	63.19
IIV 432-6S - RI		200-415	50-60	6	10	63.19
IIV 463-4S - RI		100-130	50-60	4	2	87.23
IIV 463-6S - RI	200-415	50-60	6	2	82.17	
IIV 4125-4 - RI	5 3p + N + E	100-130	50-60	4	1	259.89
IIV 4125-6S - RI		200-415	50-60	6	1	251.84

Other clock positions are produced to order.

CONNECTION OUTLETS - 3 WAY 16A IP44

With IEC-CEE 16A socket inlet and 3 x 16A socket outlets
 Connectable cable size: 1,5-4 mm²
 Degree of protection IP44



Type	Poles	Connectors	Operating Voltage V	Frequency Hz	Clock pos.- Colour code	Package size	Trade Price
P3 S216-4S	3	3 x 16A socket outlets	110-130	50-60	4 ■	1	55.81
P3 S216-6S	3	3 x 16A socket outlets	200-250	50-60	6 ■	1	50.75

CONNECTION OUTLETS - 3 WAY 16A IP67

With IEC-CEE 16A socket inlet and 3 x 16A socket outlets
 Connectable cable size: 1,5-4 mm²
 Degree of protection IP67



Type	Poles	Connectors	Operating Voltage V	Frequency Hz	Clock pos.- Colour code	Package size	Trade Price
PV3 S216-4S	3	3 x 16A socket outlets	110-130	50-60	4 ■	1	72.72
PV3 S216-6S	3	3 x 16A socket outlets	200-250	50-60	6 ■	1	67.79

Other clock positions are produced to order.

PANEL MOUNTED SOCKET WITH STRAIGHT MOUNTING PLATE 16A - 63A IP44

For panel mounting

Connectable cable size:

16A: 1-2,5 mm² & solid cable 1-4 mm².

32A: 2,5-6 mm² & solid cable 2,5-10 mm²

63A: 6-16 mm² & solid cable 6-25 mm²

Degree of protection IP44



UIL 216-6S



UI 316-4S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UIL 216-4 S	3 2p + E	100-130	50-60	4 ■	10	4.41
UIL 216-6 S		200-250	50-60	6 ■	10	4.03
UI 216-4 S		100-130	50-60	4 ■	10	4.37
UI 216-6 S		200-250	50-60	6 ■	10	4.03
UI 232-4 S		100-130	50-60	4 ■	10	6.04
UI 232-6 S		200-250	50-60	6 ■	10	5.62
UI 263-4 S	4 3p + E	100-130	50-60	4 ■	2	45.23
UI 263-6 S		200-250	50-60	6 ■	2	34.77
UI 316-4 S		100-130	50-60	4 ■	10	6.63
UI 316-6 S		380-415	50-60	6 ■	10	5.02
UI 332-4 S		100-130	50-60	4 ■	10	6.41
UI 332-6 S		380-415	50-60	6 ■	10	6.28
UI 363-4 S	5 3p + N + E	100-130	50-60	4 ■	2	33.54
UI 363-6 S		380-415	50-60	6 ■	2	33.52
UI 416-4 S		100-130	50-60	4 ■	10	5.26
UI 416-6 S		200-415	50-60	6 ■	10	5.23
UI 432-4 S		100-130	50-60	4 ■	10	7.43
UI 432-6 S		200-415	50-60	6 ■	10	7.45
UI 463-4 S	5 3p + N + E	100-130	50-60	4 ■	2	36.88
UI 463-6 S		200-415	50-60	6 ■	2	36.87

Other clock positions are produced to order.

PANEL MOUNTED SOCKET WITH ANGLED MOUNTING PLATE 16A - 63A IP44

For panel mounting

Connectable cable size:

16A: 1-2,5 mm² & 1-4 mm² for solid cable

32A: 2,5-6 mm² & 2,5-10 mm² for solid cable

63A: 6-16 mm² & 6-25 mm² for solid cable

Degree of protection IP44



UIS 316-6S



UIS 263-6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
UIS 216-4 S	3 2p + E	100-130	50-60	4 ■	10	4.41
UIS 216-6 S		200-250	50-60	6 ■	10	4.03
UIS 232-4 S		100-130	50-60	4 ■	10	6.83
UIS 232-6 S		200-250	50-60	6 ■	10	6.04
UIS 263-4 S		100-130	50-60	4 ■	2	33.24
UIS 263-6 S		200-250	50-60	6 ■	2	33.25
UIS 316-4 S	4 3p + E	100-130	50-60	4 ■	10	5.55
UIS 316-6 S		380-415	50-60	6 ■	10	5.54
UIS 332-4 S		100-130	50-60	4 ■	10	6.23
UIS 332-6 S		380-415	50-60	6 ■	10	6.10
UIS 363-4 S		100-130	50-60	4 ■	2	35.60
UIS 363-6 S		380-415	50-60	6 ■	2	35.59
UIS 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	5.26
UIS 416-6 S		200-415	50-60	6 ■	10	5.23
UIS 432-4 S		100-130	50-60	4 ■	10	7.46
UIS 432-6 S		200-415	50-60	6 ■	10	7.45
UIS 463-4 S		100-130	50-60	4 ■	2	36.91
UIS 463-6 S		200-415	50-60	6 ■	2	36.90

Other clock positions are produced to order.

PANEL MOUNTED SOCKET WATERTIGHT - ANGLED MOUNTING PLATE 16A - 125A IP67

Watertight socket for panel mounting

Connectable cable size:

16A: 1-2,5 mm² & 1-4 mm² for solid cable

32A: 2,5-6 mm² & 2,5-10 mm² for solid cable.

63A: 6-16 mm² & 6-25 mm² for solid cable

125A: 16-50 mm² & 16-70 mm² for solid cable

Supplied with gasket

Degree of protection IP67



UIV 232-4



UISV 263-6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UISV 216-4S	3 2p + E	100-130	50-60	4 ■	10	10.03
UISV 216-6		200-250	50-60	6 ■	10	10.07
UISV 232-4S		100-130	50-60	4 ■	10	12.61
UISV 232-6S		200-250	50-60	6 ■	10	12.05
UIV 263-4		100-130	50-60	4 ■	2	58.43
UISV 263-6S		200-250	50-60	6 ■	2	35.01
UIV 2125-4	4 3p + E	100-130	50-60	4 ■	2	123.85
UISV 2125-6		200-250	50-60	6 ■	2	68.51
UIV 316-4		100-130	50-60	4 ■	10	13.75
UISV 316-6S		380-415	50-60	6 ■	10	10.38
UIV 332-4		100-130	50-60	4 ■	10	11.45
UISV 332-6S		380-415	50-60	6 ■	10	12.72
UIV 363-6	5 3p + N + E	380-415	50-60	6 ■	2	57.18
UIV 3125-4		100-130	50-60	4 ■	2	204.44
UISV 3125-6S		380-415	50-60	6 ■	2	69.01
UIV 416-4		100-130	50-60	4 ■	10	14.61
UISV 416-6S		200-415	50-60	6 ■	10	11.43
UIV 432-4		100-130	50-60	4 ■	10	14.41
UISV 432-6S	200-415	50-60	6 ■	10	13.75	
UIV 463-4	5 3p + N + E	100-130	50-60	4 ■	2	31.10
UISV 463-6S		200-415	50-60	6 ■	2	38.90
UIV 4125-4		100-130	50-60	4 ■	2	220.89
UISV 4125-6		200-415	50-60	6 ■	2	75.14

Other clock positions are produced to order.

PANEL MOUNTED INLET WITH STRAIGHT MOUNTING PLATE 16A - 63A IP44

For panel mounting
 Connectable cable size:
 16A: 1,5-4 mm²
 32A: 2,5-10 mm²
 63A: 6-25 mm²
 Degree of protection IP44



II 416-6S

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
II 216-4 S	3 2p+E	100-130	50-60	4 ■	10	4.85
II 216-6 S		200-250	50-60	6 ■	10	4.85
II 232-4 S		100-130	50-60	4 ■	10	7.02
II 232-6 S		200-250	50-60	6 ■	10	7.03
II 263-4 S		100-130	50-60	4 ■	4	20.92
II 263-6 S		200-250	50-60	6 ■	4	20.92
II 316-4 S	4 3p + E	100-130	50-60	4 ■	10	6.04
II 316-6 S		380-415	50-60	6 ■	10	6.04
II 332-4 S		100-130	50-60	4 ■	10	8.03
II 332-6 S		380-415	50-60	6 ■	10	7.66
II 416-4 S		100-130	50-60	4 ■	10	6.04
II 416-6 S		200-415	50-60	6 ■	10	6.04
II 432-4 S	5 3p+N+E	100-130	50-60	4 ■	10	8.03
II 432-6 S		200-415	50-60	6 ■	10	8.03

PANEL MOUNTED INLET WATERTIGHT - ANGLED MOUNTING PLATE 63A + 125A IP67

Waterproof inlet for panel mounting
 Connectable cable size:
 63A: 6-16 mm² and for solid cable 6-25 mm²
 125A: 16-50 mm² and for solid cable 16-70 mm²
 Supplied with gasket
 Degree of protection IP67



IIV 263-4

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price	
IIV 263-4	3 2p + E	100-130	50-60	4 ■	2	56.36	
IIV 263-6		200-250	50-60	6 ■	2	41.41	
IIV 2125-4		100-130	50-60	4 ■	2	107.09	
IISV 2125-6S		200-250	50-60	6 ■	2	89.23	
IIV 363-4		4 3p + E	100-130	50-60	4 ■	2	49.31
IIV 363-6			380-415	50-60	6 ■	2	49.31
IIV 3125-6	380-415		50-60	6 ■	2	103.16	
IIV 463-4	5 3p + N + E		100-130	50-60	4 ■	2	49.31
IIV 463-6			200-415	50-60	6 ■	2	49.31
IIV 4125-6			200-415	50-60	6 ■	2	94.49

Other clock positions are produced to order.

COMBINATION UNITS 16A - 32A IP44



Type		Trade Price
Wall Socket with 4 Module Window 16A-32A IP44		
URBB 216-4S	16A 3PIN 110V SOCKET C/W 4MOD IP44	60.67
URBB 216-6S	16A 3PIN 230V SOCKET C/W 4MOD IP44	56.00
URBB 316-6S	16A 4PIN 400V SOCKET C/W 4 MOD IP44	57.00
URBB 416-6S	16A 5PIN 400V SOCKET C/W 4MOD IP44	57.33
URBB 232-4S	32A 3PIN 110V SOCKET C/W 4MOD IP44	68.34
URBB 232-6S	32A 3PIN 230V SOCKET C/W 4MOD IP44	62.33
URBB 332-6S	32A 4PIN 400V SOCKET C/W 4 MOD IP44	62.67
URBB 432-6S	32A 5PIN 400V SOCKET C/W 4MOD IP44	63.00



Type		Trade Price
Interlocked Socket Outlet IP44 16A-32A		
UBB 216-4S	16A 3PIN 110V Switched Socket IP44	50.50
UBB 216-6S	16A 3PIN 230V Switched Socket IP44	48.33
UBB 316-6S	16A 4PIN 400V Switched Socket IP44	56.66
UBB 416-6S	16A 5PIN 400V Switched Socket IP44	57.33
UBB 232-4S	32A 3PIN 110V Switched Socket IP44	51.50
UBB 232-6S	32A 3PIN 220V Switched Socket IP44	50.50
UBB 332-6S	32A 4PIN 400V Switched Socket IP44	53.33
UBB 432-6S	32A 5PIN 400V Switched Socket IP44	69.33

INTERLOCKED SOCKETS OUTLETS WATERTIGHT 16A - 125A IP67

Watertight socket for wall mounting with cable connection from top & bottom
Connectable cable size:

- 16A: 1-2,5 mm² and for solid cable 1-4 mm²
- 32A: 2,5-6 mm² and for solid cable 2,5-10 mm²
- 63A: 6-16 mm² and for solid cable 6-25 mm²
- 125A: 50 mm²

Degree of protection IP67



UBV 3125-6



UBV 263-6SI

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
16A, 32A 63A						
UBC 216-4S	3 2p + E	100-130	50-60	4 ■	1	69.17
UBC 216-6S		200-250	50-60	6 ■	1	69.17
UBC 232-4S		100-130	50-60	4 ■	1	72.68
UBC 232-6S		200-250	50-60	6 ■	1	72.68
UBV 263-4		100-130	50-60	4 ■	1	202.75
UBV 263-6SI		200-250	50-60	6 ■	1	200.53
UBC 316-4S	4 3p + E	100-130	50-60	4 ■	1	70.62
UBC 316-6S		380-415	50-60	6 ■	1	70.62
UBC 332-4S		100-130	50-60	4 ■	1	77.56
UBC 332-6S		380-415	50-60	6 ■	1	77.56
UBV 363-4		100-130	50-60	4 ■	1	263.35
UBV 363-6SI		380-415	50-60	6 ■	1	204.33
UBC 416-4S	5 3p + N + E	100-130	50-60	4 ■	1	74.38
UBC 416-6S		230-400	50-60	6 ■	1	74.38
UBV 432-4		100-130	50-60	4 ■	1	90.91
UBV 432-6		230-400	50-60	6 ■	1	84.05
UBV 463-4		100-130	50-60	4 ■	1	283.58
UBV 463-6		230-400	50-60	6 ■	1	209.97
125A						
UBV 2125-4	3	100-130	50-60	4 ■	1	1,071.55
UBV 2125-6	2p + E	200-250	50-60	6 ■	1	1,071.55
UBV 3125-4	4	100-130	50-60	4 ■	1	1,115.03
UBV 3125-6	3p + E	380-415	50-60	6 ■	1	1,115.03
UBV 4125-4	5	100-130	50-60	4 ■	1	1,148.47
UBV 4125-6	3p + N + E	200-415	50-60	6 ■	1	1,148.47

INTERLOCKED COMBINATION UNITS WATERTIGHT 16A - 125A IP67

Combination unit with socket outlet in watertight design.
Cable connection possible from top and bottom.
Can be equipped with components up to a max of 5-8 modules. (100 mm).
Connectable cable size:

16A: 1-2,5 mm² and for solid cable 1-4 mm²
32A: 2,5-6 mm² and for solid cable 2,5-10 mm²
63A: 6-16 mm² and for solid cable 6-25 mm²
125A: 50 mm²

Degree of protection IP67.

Components sold separately.



URBBV 363-6S

Type	Poles	Module space for Components	Operating Voltage V	Clock pos. Colour code	Package size	Trade Price
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16A

URBBV 216-4S	3	5	100-130	4	1	106.08
URBBV 216-6S	2p + E	5	200-250	6	1	106.08
URBBV 316-4S	4	5	100-130	4	1	108.70
URBBV 316-6S	3p + E	5	380-415	6	1	108.70
URBBV 416-4S	5	5	100-130	4	1	112.17
URBBV 416-6S	3p + N + E	5	200-415	6	1	109.43

32A

URBBV 232-4S	3	5	100-130	4	1	155.55
URBBV 232-6S	2p + E	5	200-250	6	1	159.44
URBBV 332-4S	4	5	100-130	4	1	165.51
URBBV 332-6S	3p + E	5	380-415	6	1	165.51
URBBV 432-4S	5	5	100-130	4	1	170.51
URBBV 432-6S	3p + N + E	5	200-415	6	1	170.51

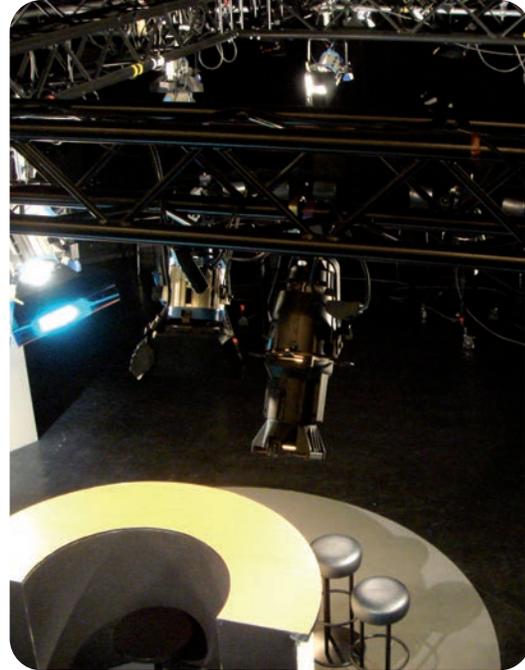
63A

URBBV 263-4S	3	7	100-130	4	1	318.73
URBBV 263-6S	2p + E	7	200-250	6	1	318.73
URBBV 363-4S	4	7	100-130	4	1	327.45
URBBV 363-6S	3p + E	7	380-415	6	1	322.44
URBBV 463-4S	5	7	100-130	4	1	327.45
URBBV 463-6S	3p + N + E	7	200-415	6	1	327.45

125A

URBBV 2125-4S	3	8	100-130	4	1	1,530.79
URBBV 2125-6S	2p + E	8	200-250	6	1	1,530.79
URBBV 3125-4S	4	8	100-130	4	1	1,592.88
URBBV 3125-6S	3p + E	8	380-415	6	1	1,592.88
URBBV 4125-4S	5	8	100-130	4	1	1,640.68
URBBV 4125-6S	3p + N + E	8	200-415	6	1	1,640.68

GARO PRO SCENE



When there is a special requirement for top quality and invisibility e.g. at various events in the entertainment arena, there is a need for 'invisible' electricity. Cables, sockets and terminal boxes need to be discreet and not be seen.

GARO has a special range comprising the more commonly used plugs and couplers

Connectors are screw type simple connect as with the GARO Pro Range.

Degree of Protection:

- IP44 16 - 32A
- IP67 63 - 125 A

PRO SCENE PLUGS & COUPLERS Type 16A & 32A IP44

Connectable cable size:
 16A: 1-2,5 mm²
 32A: 2,5-6 mm²
 Degree of Protection IP44



S 216-6 S - B



P 316 - 6 S - B

PRO SCENE PLUGS & COUPLERS 63A & 125A WATERTIGHT IP67

PLUGS & COUPLERS 63A and 125A
 Connectable cable size:
 63A: 6-16 mm²
 125A: 16-50 mm²
 Degree of protection IP67



S 4125 - 6 S+B



P 4125 6 S+B

PRO SCENE PLUGS & COUPLERS Type 16A & 32A IP44

PLUGS IP44	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
16 A						
P 216-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	4.64
P 316-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	6.30
P 416-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	6.58
32 A						
P 232-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	8.76
P 332-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	9.57
P 432-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	9.88

COUPLERS IP44	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
16 A						
S 216-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	6.58
S 316-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	8.76
S 416-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	9.84
32 A						
S 232-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	11.49
S 332-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	12.04
S 432-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	12.86

PRO SCENE PLUGS & COUPLERS 63A & 125A WATERTIGHT IP67

PLUGS IP67	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
63 A						
P 263-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	43.26
P 363-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	44.57
P 463-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	50.28
125 A						
P 2125-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	99.66
P 3125-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	104.90
P 4125-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	115.39

COUPLERS IP67	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
63 A						
S 263-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	52.90
S 363-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	54.65
S 463-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	60.32
125 A						
S 2125-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	109.25
S 3125-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	115.39
S 4125-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	126.74



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