

The background of the page is a complex, abstract graphic. It consists of numerous overlapping, semi-transparent lines and shapes in shades of blue and grey. These lines form a dense network of paths, many of which end in arrowheads pointing in various directions, suggesting movement, flow, or a technical diagram. The overall effect is one of dynamic energy and technical precision.

**GENERAL
PRODUCTS
2017**

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 Limited 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 Customer's 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.

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Miniature Components 6kA & 10kA

GARRO 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.

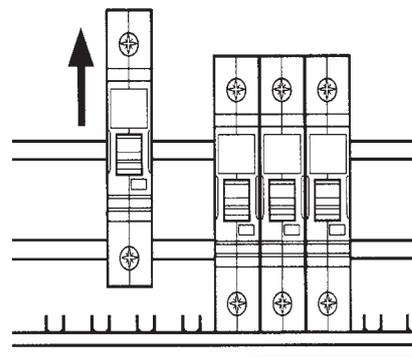
The two switches are compatible with each other.

The 6kA program consists of components of excellent quality, with limited additional features. The components are available with both B and C characteristics, 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 characteristics, 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 GARRO breakers can be mounted or dismantled in a simple manner without the need to remove the Busbar.

Characteristic and Utilisation

B-Characteristic 3 - 5 x In

Resistive loads
Lights and sockets
Cookers and ovens
Water heaters
Radiators

C-Characteristic 5 - 10 x In

Inductive and resistive loads
Microwaves
Motors
Outlets
Washers and Dryers

D-Characteristic 10 - 20 x In

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

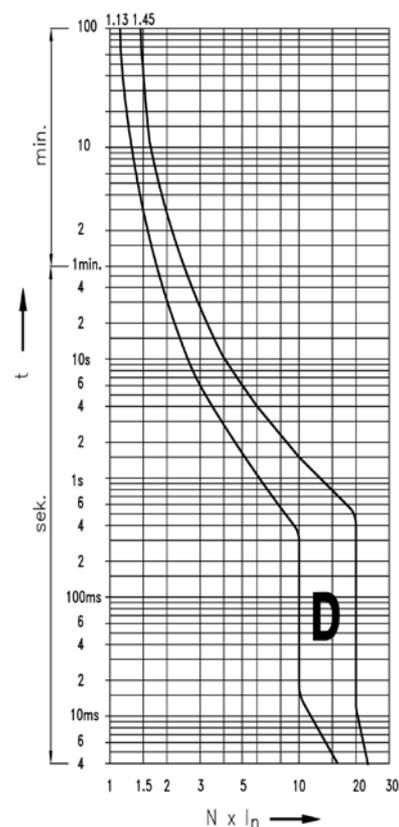
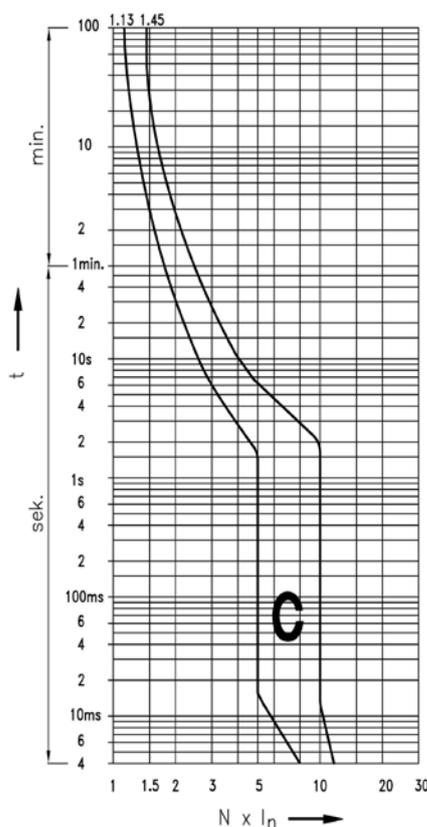
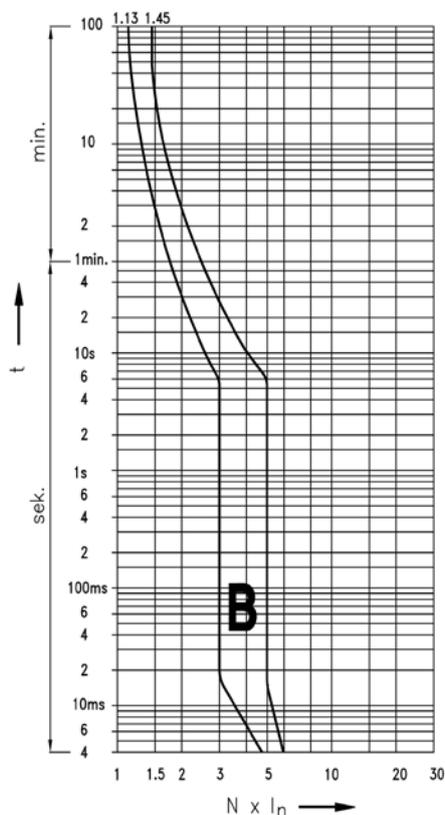
TECHNICAL DATA BREAKER 10kA

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 characteristic 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 characteristics 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:

Circuit breaker with $I_n = 10A$ has a tripping characteristic of 10A at ambient temperature +30 °C. 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 CHARACTERISTIC B

1-Pole 6kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB106	6	12	6.38
MCB GRB110	10	12	6.38
MCB GRB116	16	12	6.38
MCB GRB120	20	12	6.38
MCB GRB125	25	12	6.38
MCB GRB132	32	12	6.38
MCB GRB140	40	12	8.31
MCB GRB150	50	12	9.72
MCB GRB163	63	12	11.64



1-Pole MCB 6kA

2-Pole 6kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB206	6	6	16.60
MCB GRB210	10	6	16.60
MCB GRB216	16	6	16.60
MCB GRB220	20	6	16.60
MCB GRB225	25	6	16.60
MCB GRB232	32	6	16.60
MCB GRB240	40	6	20.73
MCB GRB250	50	6	24.15
MCB GRB263	63	6	28.65

3-Pole 6kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GRB306	6	4	26.81
MCB GRB310	10	4	26.81
MCB GRB316	16	4	26.81
MCB GRB320	20	4	26.81
MCB GRB325	25	4	26.81
MCB GRB332	32	4	26.81
MCB GRB340	40	4	33.15
MCB GRB350	50	4	38.61
MCB GRB363	63	4	45.67



3-Pole MCB 6kA

MINIATURE CIRCUIT BREAKER 6kA CHARACTERISTIC C

1-Pole 6kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC101	1	12	7.46
MCB GRC102	2	12	7.46
MCB GRC103	3	12	7.46
MCB GRC104	4	12	7.46
MCB GRC106	6	12	6.38
MCB GRC110	10	12	6.38
MCB GRC116	16	12	6.38
MCB GRC120	20	12	6.38
MCB GRC125	25	12	6.38
MCB GRC132	32	12	6.38
MCB GRC140	40	12	8.31
MCB GRC150	50	12	9.72
MCB GRC163	63	12	11.64



1-Pole MCB 6kA

2-Pole 6kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC206	6	6	16.60
MCB GRC210	10	6	16.60
MCB GRC216	16	6	16.60
MCB GRC220	20	6	16.60
MCB GRC225	25	6	16.60
MCB GRC232	32	6	16.60
MCB GRC240	40	6	20.73
MCB GRC250	50	6	24.15
MCB GRC263	63	6	28.65



3-Pole MCB 6kA

3-Pole 6kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GRC306	6	4	26.81
MCB GRC310	10	4	26.81
MCB GRC316	16	4	26.81
MCB GRC320	20	4	26.81
MCB GRC325	25	4	26.81
MCB GRC332	32	4	26.81
MCB GRC340	40	4	33.15
MCB GRC350	50	4	38.61
MCB GRC363	63	4	45.67

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC B

1-Pole 10kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 106	6	12	7.60
MCB GSB 110	10	12	7.60
MCB GSB 113	13	12	7.60
MCB GSB 116	16	12	7.60
MCB GSB 120	20	12	7.60
MCB GSB 125	25	12	7.60
MCB GSB 132	32	12	7.60
MCB GSB 140	40	12	9.42
MCB GSB 150	50	12	18.87
MCB GSB 163	63	12	22.56



1-Pole MCB 10kA

2-Pole 10kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 206	6	6	18.26
MCB GSB 210	10	6	18.26
MCB GSB 213	13	6	18.26
MCB GSB 216	16	6	18.26
MCB GSB 220	20	6	18.26
MCB GSB 225	25	6	18.26
MCB GSB 232	32	6	18.26
MCB GSB 240	40	6	27.89
MCB GSB 250	50	6	39.19
MCB GSB 263	63	6	48.56



2-Pole MCB 10kA

3-Pole 10kA Characteristic - B

Item	Rated (A)	Packing Units	Trade Price
MCB GSB 306	6	4	37.41
MCB GSB 310	10	4	37.41
MCB GSB 313	13	4	37.41
MCB GSB 316	16	4	37.41
MCB GSB 320	20	4	37.41
MCB GSB 325	25	4	37.41
MCB GSB 332	32	4	37.41
MCB GSB 340	40	4	53.22
MCB GSB 350	50	4	66.02
MCB GSB 363	63	4	46.11



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC C

1-Pole 10kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 1005	0,5	12	9.85
MCB GSC 101	1	12	9.85
MCB GSC 1016	1,6	12	9.85
MCB GSC 102	2	12	9.85
MCB GSC 104	4	12	9.85
MCB GSC 106	6	12	7.60
MCB GSC 110	10	12	7.60
MCB GSC 113	13	12	7.60
MCB GSC 116	16	12	7.60
MCB GSC 120	20	12	7.60
MCB GSC 125	25	12	7.60
MCB GSC 132	32	12	7.60
MCB GSC 140	40	12	9.42
MCB GSC 150	50	12	18.87
MCB GSC 163	63	12	22.56



1-Pole MCB 10kA

2-Pole 10kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 206	6	6	18.26
MCB GSC 210	10	6	18.26
MCB GSC 213	13	6	18.26
MCB GSC 216	16	6	18.26
MCB GSC 220	20	6	18.26
MCB GSC 225	25	6	18.26
MCB GSC 232	32	6	18.26
MCB GSC 240	40	6	21.12
MCB GSC 250	50	6	39.19
MCB GSC 263	63	6	48.56



2-Pole MCB 10kA

3-Pole 10kA Characteristic - C

Item	Rated (A)	Packing Units	Trade Price
MCB GSC 3005	0,5	4	46.81
MCB GSC 301	1	4	46.81
MCB GSC 3016	1,6	4	46.81
MCB GSC 302	2	4	46.81
MCB GSC 304	4	4	46.81
MCB GSC 306	6	4	37.41
MCB GSC 310	10	4	37.41
MCB GSC 313	13	4	37.41
MCB GSC 316	16	4	37.41
MCB GSC 320	20	4	37.41
MCB GSC 325	25	4	37.41
MCB GSC 332	32	4	37.41
MCB GSC 340	40	4	53.22
MCB GSC 350	50	4	66.02
MCB GSC 363	63	4	79.70



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC D

1-Pole 10kA Characteristic - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 106	6	12	7.60
MCB GSD 110	10	12	7.60
MCB GSD 113	13	12	7.60
MCB GSD 116	16	12	7.60
MCB GSD 120	20	12	7.60
MCB GSD 125	25	12	7.60
MCB GSD 132	32	12	7.60



1-Pole MCB 10kA

2-Pole 10kA Characteristic - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 206	6	6	18.26
MCB GSD 210	10	6	18.26
MCB GSD 213	13	6	18.26
MCB GSD 216	16	6	18.26
MCB GSD 220	20	6	18.26
MCB GSD 225	25	6	18.26
MCB GSD 232	32	6	18.26



2-Pole MCB 10kA

3-Pole 10kA Characteristic - D

Item	Rated (A)	Packing Units	Trade Price
MCB GSD 306	6	4	37.41
MCB GSD 310	10	4	37.41
MCB GSD 313	13	4	37.41
MCB GSD 316	16	4	37.41
MCB GSD 320	20	4	37.41
MCB GSD 325	25	4	37.41
MCB GSD 332	32	4	37.41



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.	10.65



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	8.30



MCB GR AUX

MINIATURE CIRCUIT BREAKER 10kA 80 - 125A

1-Pole 10kA C-Characteristic

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C180	80	12	1.5	27.73
GCB C1100	100	12	1.5	31.42
GCB C1125	125	12	1.5	35.42

2 Pole 10kA C-Characteristic

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C280	80	6	3	102.56
GCB C2100	100	6	3	97.48
GCB C2125	125	6	3	97.48

3 Pole 10kA C-Characteristic

Item	Rated (A)	Packaging Units	Modules	Trade Price
GCB C380	80	4	4.5	131.11
GCB C3100	100	4	4.5	147.01
GCB C3125	125	4	4.5	163.39



3-Pole 10kA
HIGH CURRENT MCB

RESIDUAL CURRENT CIRCUIT BREAKERS

GARO's range of RCCBs are **10kA, Type A** 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

2 Pole

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
GCD 25-2-03	25	2	2	30	25	52.04
GCD 40-2-03	40	2	2	30	25	31.28
GCD 63-2-03	63	2	2	30	25	35.65
GCD 63-2-1	63	2	2	100	25	62.98
GCD 63-2-3	63	2	2	300	25	62.98
GCD 80-2-03	80	2	2	30	25	68.59
GCD 100-2-1	100	2	2	100	25	181.85
GCD 100-2-3	100	2	2	300	25	181.85



GCD 25-2-03

4 Pole

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
GCD 25-4-03	25	4	4	30	25	55.90
GCD 40-4-03	40	4	4	30	25	55.90
GCD 63-4-03	63	4	4	30	25	72.04
GCD 80-4-03	80	4	4	30	25	94.54
GCD 100-4-03	100	4	4	30	25	223.50
GCD 40-4-3	40	4	4	300	25	56.84
GCD 63-4-3	63	4	4	300	25	77.36
GCD 63-4-5	63	4	4	500	25	77.36
GCD 80-4-3	80	4	4	300	25	102.49
GCD 100-4-1	100	4	4	100	25	194.47
GCD 100-4-3	100	4	4	300	25	181.85



GCD 63-4-5

10kA TYPE B Full range in Type B also available

S Type RCCB

Selective - minimum time delay 40ms.

2 Pole

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
GCD 63-2-1S	63	2	2	100		99.26
GCD 63-2-3S	63	2	2	300		99.26

4 Pole

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
GCD 63-4-1S	63	4	4	100		130.33
GCD 63-4-3S	63	4	4	300	25	130.33

RESIDUAL CURRENT CIRCUIT BREAKER with Overcurrent Protection (RCBO) 6kA

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

2 Pole 6kA Characteristic - B

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GRB06	6	2	2	30	1.25	28.08
RCBO GRB10	10	2	2	30	1-25	28.08
RCBO GRB16	16	2	2	30	1-25	28.08
RCBO GRB20	20	2	2	30	1-25	28.08
RCBO GRB25	25	2	2	30	1-25	28.08
RCBO GRB32	32	2	2	30	1-25	28.08
RCBO GRB40	40	2	2	30	1-25	28.08

4 Pole 6kA Characteristic - B

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GSB06	6	4	3P+N	30	1-25	118.09
RCBO GSB10	10	4	3P+N	30	1-25	118.09
RCBO GSB16	16	4	3P+N	30	1-25	118.09
RCBO GSB20	20	4	3P+N	30	1-25	118.09
RCBO GSB25	25	4	3P+N	30	1-25	118.09
RCBO GSB32	32	4	3P+N	30	1-25	118.09



2 Pole RCBO 6kA

2 Pole 6kA Characteristic - C

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GRC06	6	2	2	30	1.25	28.08
RCBO GRC10	10	2	2	30	1-25	28.08
RCBO GRC16	16	2	2	30	1-25	28.08
RCBO GRC20	20	2	2	30	1-25	28.08
RCBO GRC25	25	2	2	30	1-25	28.08
RCBO GRC32	32	2	2	30	1-25	28.08
RCBO GRC40	40	2	2	30	1-25	28.08

4 Pole 6kA Characteristic - C

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GSC06	6	4	3P+N	30	1-25	118.09
RCBO GSC10	10	4	3P+N	30	1-25	118.09
RCBO GSC16	16	4	3P+N	30	1-25	118.09
RCBO GSC20	20	4	3P+N	30	1-25	118.09
RCBO GSC25	25	4	3P+N	30	1-25	118.09
RCBO GSC32	32	4	3P+N	30	1-25	118.09



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	6.21



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

2 Pole 10kA Characteristic - B

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GS B06A2P	6	2	2	30	1-25	40.96
RCBO GS B10A2P	10	2	2	30	1-25	40.96
RCBO GS B16A2P	16	2	2	30	1-25	40.96
RCBO GS B20A2P	20	2	2	30	1-25	40.96
RCBO GS B25A2P	25	2	2	30	1-25	40.96
RCBO GS B32A2P	32	2	2	30	1-25	40.96
RCBO GS B40A2P	40	2	2	30	1-25	40.96



2 Pole RCBO 10kA

2 Pole 10kA Characteristic - C

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GS C06A2P	6	2	2	30	1-25	40.96
RCBO GS C10A2P	10	2	2	30	1-25	40.96
RCBO GS C16A2P	16	2	2	30	1-25	40.96
RCBO GS C20A2P	20	2	2	30	1-25	40.96
RCBO GS C25A2P	25	2	2	30	1-25	40.96
RCBO GS C32A2P	32	2	2	30	1-25	40.96
RCBO GS C40A2P	40	2	2	30	1-25	40.96

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

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

2 Pole 6kA Characteristic - B

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GI B06	6	1	1 + N	30	1.6	32.31
RCBO GI B10	10	1	1 + N	30	1-6	32.31
RCBO GI B16	16	1	1 + N	30	1-6	32.31
RCBO GI B20	20	1	1 + N	30	1-6	32.31
RCBO GI B25	25	1	1 + N	30	1-6	32.31

2 Pole 6kA Characteristic - C

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
RCBO GI C06	6	1	1 + N	30	1.6	32.31
RCBO GI C10	10	1	1 + N	30	1-6	32.31
RCBO GI C16	16	1	1 + N	30	1-6	32.31
RCBO GI C20	20	1	1 + N	30	1-6	32.31
RCBO GI C25	25	1	1 + N	30	1-6	32.31



1 Mod 2 Pole RCBO

ACCESSORIES

Item	Description	Modular Length	For cable size mm ²	Trade Price
AS-35-SLISOSO	Terminal Connector		25	1.85
SKN0021-10	SP Busbar 10 mm ² to suit 1mod RCBO	12		13.71
SKN0029-10	TP Busbar 10 mm ² to suit 1mod RCBO	12		22.71

MODULAR ISOLATOR & CHANGEOVER SWITCHES

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

With dolly

Item	Type	AC21- AC22 (A)	Modules	Poles	Operating Voltage V	For cable size mm ²	Trade Price
GSV 1100	Isolator	100	1	1	230	35	8.45
GSV 2100	Isolator	100	2	2	400	35	17.69
GSV 3100	Isolator	100	3	3	400	35	27.64
GSS 116 I-O-I 1 x c-o contact	H-O-A	16	1	1	230	1,5-6	15.97
GSS 216 I-O-I 2 x c-o contacts	H-O-A	16	1	2	400	1,5-6	22.21



GSV 2100

With toggle

Item	Type	AC21- AC22 (A)	Modules	Poles	Operating Voltage V	For cable size mm ²	Trade Price
Enclosure class IP20							
HOA 1	H-O-A	10	2	1	440		25.98
HOA 2	H-O-A	10	2	2	440		31.04



HOA 1



GSS 216 I-O-I

PUSH BUTTONS - INDICATORS

Apparatus for use in distribution boards, with a width of 17.5 mm, and in the management connectivity between 1.5-6 mm². The lights are up to 1.5 W - 230V with E10 socket.

The equipment is verified and validated to standards EN 60 947-3, EN 60 947-5-1, DIN 43880 and DIN VDE 0710

Item	Description	Modules	Poles	Contact Function	Trade Price
GT 216	Pushbutton Red	1	2	1s+1ö 16A-230V	11.19
GLT-YELLOW	Cap for pushbutton				1.44
GLT-GREEN	Cap for pushbutton				1.44
GLT-BLUE	Cap for pushbutton				1.44
GLT-WHITE	Cap for pushbutton				1.44
GTL 216	Pushbutton with Lamp Red	1	2	1s+1ö 16A-230V	13.97
GL1-RED	Cap for signal lamp				1.44
GL1-YELLOW	Cap for signal lamp				1.44
GL1 GREEN	Cap for signal lamp				1.44
GL1-BLUE	Cap for signal lamp				1.44
GL1-WHITE	Cap for signal lamp				1.44



GTL 216



GT 216



GLT-YELLOW

DIGITAL TIMERS ** NEW RANGE **

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)

ELECTRONIC TIME SWITCHES

Item	Previous Code	Modules	Channels	Relay Capacity	Trade Price
DV1K	DV1	2	1	250V AC - 16(10)A	68.23
DV2K	DV2	2	2	250V AC - 16(10)A	88.77



DV1K

Item	Previous Code	Modules	Channels	Relay Capacity	Program	Trade Price
ASTRO1K	Astro1	2	1	250V AC - 16(10)A	Programmable (dusk to dawn)	86.23



DV1K 1M



ASTRO1K

MECHANICAL & ELECTROMECHANICAL TIMERS ** NEW RANGE **

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

ELECTROMECHANICAL TIME SWITCHES

Item	Previous Code	Modules	Relay Capacity	Quadrant Type	Intervention Time (min)	Intervention Precision	Trade Price
D1M MEK	ELO-D	1	250V AC - 16(4)A	24 hours - 96 trips x 15 mins	15 mins	+/- 5 mins	33.51
D3M MEK	DUET-D	3	250V AC - 16(4)A	24 hours - 48 trips x 30 mins	30 mins	+/- 7.5 mins	39.71
V3M MEK	DUET-W	3	250V AC - 16(4)A	168 hours - 48 trips x 3.5 hrs	3.5 hours	+/- 52.5 mins	76.74



D1M MEK



D3M MEK



V3M MEK

KILOWATT HOUR METERS

Din rail mounted energy meters with pulse outputs.

Item	Description	Measures	Modules	Rated Current	Trade Price
GM1D	Energy Meter - Single Phase	KWH	1	32A	78.78
GM3D	Energy Meter - Three Phase	KWH, KW, V & A	3	63A	185.28
GM3T-RS485	Energy Meter - Three Phase	KWH, KW, V & A	3	CT (6000A)	328.27



GM1D

SAFETY TRANSFORMERS

Item	Description	Width din mods	Power	Rated Current	Trade Price
VN 31 4100	Continuous service transformer	2	10 VA	230V - 4-8-12V AC	28.19
VN 31 5800	Continuous service transformer	2	10 VA	230V - 12-24V AC	28.19
VN 31 6600	Continuous service transformer	2	15 VA	230V - 4-8-12V AC	34.53
VN 31 7400	Continuous service transformer	2	15 VA	230V - 12-24V AC	34.53



VN 31 4100

CONTACTORS

Modular contactors for din rail mounting.

Item	Contacts	Poles	Mod-ules	Rated	Coil		Trade Price
				AC-1[A]	Voltage (V)	Type	
GK20-1NO1NC	1 NO + 1 NC	2	1	20	230	AC	18.21
GK20-2NO	2 NO	2	1	20	230	AC	25.56
GK20-2NC	2 NC	2	1	20	230	AC	29.78
GK24-4NO	4 NO	4	2	25	230	AC-DC	30.68
GK24-4NC	4 NC	4	2	25	230	AC-DC	34.98
GK40-1NO	1 NO	1	1	40	230	AC-DC	46.09
GK40-4NO	4 NO	4	3	40	230	AC-DC	73.26
GK40-2NO2NC	2 NO + 2 NC	4	3	40	230	AC-DC	98.98
GK63-4NO	4 NO	4	3	63	230	AC-DC	96.40



GK40 - 2NO 2NC

ACCESSORIES FOR CONTACTORS

Item	Description	Modules	Trade Price
GKD	Distance Piece, 12gm, temperatures < 40 ° C	0,5	3.44
GKN 11	Auxiliary Contacts		17.04



GKD

SURGE PROTECTION DEVICES

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

DC SURGE PROTECTION DEVICES -

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Max Operating Voltage	Trade Price
DC SPD10	2	1	yes	10KA per pole	60KA per pole	60V DC	284.08
DC SPD40	2	11	yes	10KA per pole	40KA per pole	60V DC	201.04

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

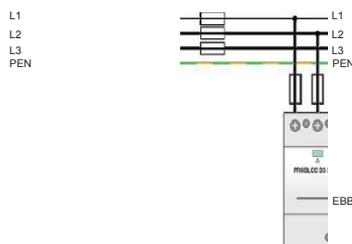


DC SPD 10

CLASS 1 SURGE PROTECTION DEVICES

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Back up Fuse Maximum	Trade Price
BSR 275 3pol	3	1, 11, 111	yes	25KA per pole	100KA per pole	250A gl	474.90
BSR 275 4pol	4	1, 11, 111	yes	25KA per pole	100KA per pole	250A gl	629.12
GBR 275 3pol	3	1, 11	yes	25KA per pole	100KA per pole	160A gl	297.05
GBR 275 4pol	4	1, 11	yes	25KA per pole	100KA per pole	160A gl	386.17

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



BSR 275 3pol

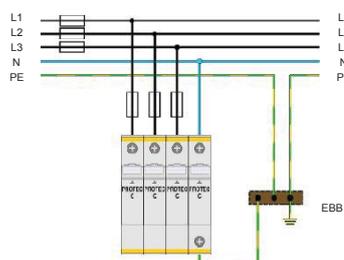


GBR 275 4pol

CLASS 11 SURGE PROTECTION DEVICES

Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Back up Fuse Maximum	Trade Price
GPT 275 1pol	1	11	no	5KA per pole	40KA per pole	125A	38.64
GPTR 275 1pol	1	11	yes	5KA per pole	40KA per pole	125A	52.59
GPT 275 2pol	2	11	no	5KA per pole	40KA per pole	125A	78.40
GPTR 275 2pol	2	11	yes	5KA per pole	40KA per pole	125A	92.58
GPT 275 3pol	3	11	no	5KA per pole	40KA per pole	125A	115.69
GPTR 275 3pol	3	11	yes	5KA per pole	40KA per pole	125A	141.51
GPT 275 4pol	4	11	no	5KA per pole	40KA per pole	125A	156.06
GPTR 275 4pol	4	11	yes	5KA per pole	40KA per pole	125A	183.60
GPT 275 plug	1	11	yes	5KA per pole	40KA per pole	125A	34.42
LX3375	3	11	no	5KA per pole	40KA per pole	N-A	208.47

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



GPT 275 4pol

SURGE PROTECTION DEVICES

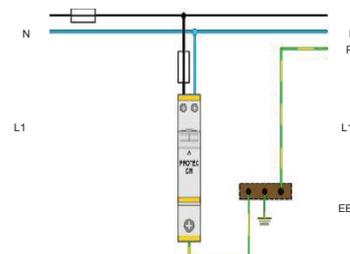
Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Backup Fuse Maximum	Trade Price
PDM 320	1	111	no	n-a	10KA per pole	63A	79.21
PDMR 320	1	111	yes	n-a	10KA per pole	63A	92.92
PDM 320plug	1	111	yes	n-a	10KA per pole	63A	71.48
GTS 170	1	111	yes	n-a	20KA per pole	63A	101.48
GTS 170plug	1	111	yes	n-a	20KA per pole	63A	84.14



PDM 320

CLASS 111 SURGE PROTECTION DEVICES

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



SWITCHFUSE TYPE DO

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

Item	Poles	Max Rated Current A	Modules	Trade Price
STVDO 21P	1	63	1.5	12.42
STVDO 22P	2	63	3	34.40
STVDO 23P	3	63	4.5	48.19

For fuses see page 36 & page 18 for busbar to suit.



TEST RELAYS & TIME LAG SWITCHES

Item	Description	Contact	Trade Price
DCTU	Emergency Light Test Relay - din rail mounting	1 x c-o	50.00
2235A	Electronic Time Lag Switch 16A - Touch Pad	1 x c-o	85.65
3875A	Electronic Time Lag Switch 16A - Push Button	1 x c-o	96.64
COLUMBUS	Pneumatic Time Delay Switch - 6A, 5 secs - 20 mins	1 x c-o	43.62



DCTU



Columbus



2235a

ACCESSORIES

Terminals and Connectors

Item	Description	Trade Price
AS25-SN	Cable Connector Pin to suit 25 mm ² cable	1.75
AS25-GN	Cable Connector Fork to suit 25 mm ² cable	1.75
AS35-S	Cable Connector Pin to suit 35 mm ² cable	1.97
AS-35-SLISOSO	Cable Connector Pin to suit 35 mm ² cable. 27mm PITCH	1.85
AS50-SN	Cable Connector Pin to suit 50 mm ² cable. 15mm PITCH	3.10
E7	Earth Terminal Block 7 Way 16 mm ² clips on to DIN rail	2.05
N7	Neutral Terminal Block 7 Way 16 mm ² clips on to DIN rail	2.05
BRASS 9	9 Way Brass Terminal for Garo Consumer Units	1.95
BRASS 18	18 Way Brass Terminal for Garo Consumer Units	5.13
BRASS 3LA	18 Way Brass Terminal for LA Consumer Units	5.13
BRASSBAR	Brass Terminal 6.5 x 9 x 288mm	7.11
BRASSBAR1M	N-E Terminal Block 153 way (1 metre)	18.87
KKS1-2	Supports for N-E Terminal Block (1 metre)	1.03
NPE35	Earth - Neutral Terminal 160A to suit 35 mm ² cable	11.55
NPE120	Earth - Neutral Terminal 250A to suit 120 mm ² cable	37.08
TBN185	Earth - Neutral Terminal 400A to suit 185 mm ² cable	52.46
DISCT6US	Disconnect Test Terminal	4.70
EPDISCT6U	End Plate for Disconnect Terminal	0.41
RPQ 1000	125A 4 Pole short busbar block	12.20
RPQ 1005	125A 4 Pole long busbar Block	16.61
RPQ 1010	100A 4 Pole longest Busbar Block	21.75
RPQ 1015	160A 4 Pole standard Busbar Block	47.87
RPQ 1016	160A 4 Pole modular Busbar Block with Top & Bottom entry	50.65
RPQ 1017	160A 4 Pole modular Busbar Block	50.65
RPQ 1020	100A 4 Pole shallow Busbar Block	68.35
RPQ 1025	100A 4 Pole Busbar Block	27.13



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	9.07
RPU 3000	SP	125	1 x 35	10x16	25	26.40
RPU 3005	SP	160	1 x 70	10x16	35	26.90
RPU 3010	SP	250	1 x 120	4x10,5x16,2x25	50	41.65
RPU 3015	SP	400	1 x 185	4x10,5x16,2x25	50	42.13
RPU 1020	SP	500	1 x (25x5)	4x10,5x16,2x25	50	42.93
RPT 3000	TP	125	1 x 35	6 x 16	25	51.75
RPT 3005	TP	160	1 x 70	6 x 16	35	53.85



Blanking Strip Plastic

Covers the empty spaces in the front cover of distribution enclosures.

Item	Description	Trade Price
TC-1A	4.5 modules - easily cut into desired size	0.95
ZA2W	57 modules (1 metre)	5.55

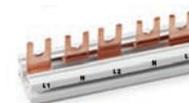
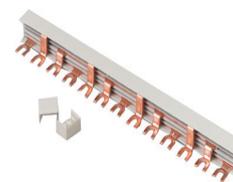


BLANKING STRIP

BUSBAR

Pin type busbar with insulation

Item	Description	Current capacity with end input (A)	Current capacity with central input (A)	Trade Price
S-1L-1000-10I	10 mm ² 1-phase, 57 mod	63	100	12.56
S-2L-1000-10	10 mm ² 2-phase, 57 mod	63	100	22.41
S-3L-1000-10	10 mm ² 3-phase, 57 mod	63	100	25.29
S-3L-1000-16	16 mm ² 3-phase, 57 mod	80	130	38.50
S-4L-1000-16	16 mm ² for 4 Pole RCCB	80	130	54.94
S-1L-27-1000	16 mm ² 1-phase	80	130	37.52
S-3L-27-1000	16 mm ² 3-phase, for do - neoz fuse holders	80	130	47.46
S-1L-145-10-ISO	10 mm ² 1-phase, 8 mod	63	100	1.56
S-1L-210-10-ISO	10 mm ² 1-phase, 12 mod	63	100	3.09



Pin type busbar without insulation

S-1L-1000-10	10 mm ² 1-phase, 57 mod ** un-insulated **	63	100	8.11
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Fork type busbar with insulation

G-1L-1000-10ISO	10 mm ² 1-phase, 57 mod	63	100	11.77
G-2L-1000-10M5	10 mm ² 2-phase, 57 mod	63	100	22.30
G-3L-1000-10CM5	10 mm ² 3-phase, 57 mod	63	100	24.82
G-L1-N-L2-N-L	16 mm ² 3-phase+N, 57 mod	80	130	62.23



Busbar for surge protection device

G 16 L3	3 Pole linking busbar GS100SG	-	-	4.50
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SHOWER RELAY + TIMER

Item	Description	Rated(A)	Voltage	Trade Price
BZ 601000	Load drop relay 6,7	39A	230 Volt	45.52
SR 1000	Shower Timer 6 - 10	Set for 6 or 10 minute shower		68.56



BELL TRANSFORMER - BELL - CHIME

Item	Description	Modules	Rated Current	Trade Price
TRAN 8-12-24	Bell transformer	2	230-8V,12V,24V 1A	14.75
PB-04	Bell Push - white			4.99
PB-04B	Bell Push - black			4.99
ST3238	Door Chime (Double Sound)			12.62



TRAN8-12-24

STAIRCASE TIMERS

Item	Description	Modules	Max	Rated current	Trade Price
LSM-01	45 secs - 7 mins	1	3000W-230V	4A-16A-230V	26.71

For the control of lighting e.g. stairwells. Switchable for 3 functions with different time intervals as well as ignition and extinguishing function.



LSM-01

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	42.30



SIRCO M SWITCH

SIRCO M Switches

Item	Rating (A)	Poles	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
2200 3001	20	3	M1	20	20	9	18.25
2200 3003	32	3	M1	32	32	15	23.83
2200 3004	40	3	M1	40	40	18.5	25.17
2200 3006	63	3	M2	63	63	30	30.25
2200 3008	80	3	M2	80	80	37	38.52
2200 3009	100	3	M2	100	100		51.63
2200 3010	100	3	M3	100	100	45	55.17
2200 3011	125	3	M3	125	125	55	64.27



SIRCO M

SIRCO MV Switches

Item	Rating (A)	Poles	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
2200 3012	125	3	MV	125	125	55	77.18
2200 4012	125	4	MV	125	125	55	98.67
2200 3016	160	3	MV	160	160	75	94.35
2200 4016	160	4	MV	160	160	75	125.44



SIRCO MV

SIRCO M Additional Modules

Item	Rating (A)	Module	Frame	AC21 (A)	AC23 (A)	AC23 KW	Trade Price
2200 5005	20 - 40	Unswitched	M1	40	40	18.5	7.73
2200 5009	63 - 80	Unswitched	M2	80	80	37	9.26
2200 5011	100 - 125	Unswitched	M3	125	125	55	16.86
2200 1004	20 - 40	Switched	M1	40	40	18.5	8.31
2200 1008	63 - 80	Switched	M2	80	80	37	11.64
2200 1011	100 - 125	Switched	M3	125	125	55	18.65
2200 9005	20 - 40	Earth	M1	40	40	18.5	7.73
2200 9009	63 - 80	Earth	M2	80	80	37	11.26
2200 9011	100 - 125	Earth	M3	125	125	55	16.86



Additional Module

SIRCO M - MV Auxiliary Contacts

Item	Rating (A)	Module	Frame	AC21 (A)	Contact	Trade Price
2299 0001	20 - 125	Auxiliary	Frame M	10	NO + NC	11.46
2299 0011	20 - 125	Auxiliary	Frame M	10	2NC	11.46
3999 0701	20 - 125	Auxiliary	Frame U	10	NC	15.60
3999 0702	20 - 125	Auxiliary	Frame U	10	NO	15.60



Aux Contact

SIRCO M - MV Direct Handle

Item	Rating (A)	Poles	Frame	Colour	Handle	Trade Price
2299 5012	20 - 80	3&4	M1-M2	Blue	M00	1.65
2299 5032	100 - 125	3&4	M3	Blue	M01	2.62
2299 5022	125 - 160	3&4	MV	Blue	M0	4.72



MV Direct Handle

SIRCO M SWITCH

SIRCO M - MV External Handle

Item	Rating (A)	Poles	Frame	Colour	Handle	IP Rating	Trade Price
1403 2111	20 - 125	3&4	M1-M3	Black	S01	65	28.17
1473 1111	20 - 80	3&4	M1-M2	Black	S00	65	5.79
1483 1111	100 - 125	3&4	M3	Black	S0	65	9.29
1493 0111	125 - 160	3&4	MV	Black	S0	65	9.29
1411 2111	125 - 160	3&4	MV	Black	S1	65	23.02
1473 1113	20 - 80	3&4	M1-M2	Black	Changeover	65	6.43



MV External Handle

SIRCO M - MV Shaft Extensions

Item	Rating (A)	Poles	Frame	Length	Handle	Trade Price
1407 0520	20 - 125	3&4	M1 - M3	200mm	S00	3.78
1407 0532	20 - 125	3&4	M1 - M3	320mm	S00	5.75
1409 0620	125 - 160	3&4	MV	200mm	S0	8.20
1409 0632	125 - 160	3&4	MV	320mm	S0	12.61
1401 0620	125 - 160	3&4	MV	200mm	S1	10.53
1401 0632	125 - 160	3&4	MV	320mm	S1	17.00
1429 0000			Extension Shaft Guide			6.72



Shaft Extension

SIRCO M Conversion Kit

Item	Rating (A)	Poles	Frame	Feature	Switching	Trade Price
2209 6009	20 - 80	3&4	M1 - M2	Changeover	I - 0 - II	22.00
2269 6009	20 - 80	3&4	M1 - M2	6 - 8 Pole	0 - I	23.94
2209 6011	100 - 125	3&4	M3	Changeover	I - 0 - II	95.18
2269 6011	100 - 125	3&4	M3	6 - 8 Pole	0 - I	77.00
2299 6009	20 - 80	3&4	M1 - M2	Changeover	I - I+II - II	28.11
2299 6011	100 - 125	3&4	M3	Changeover	I - I+II - II	115.86



Conversion Kit

SIRCO M Door Mounting Kit

2299 3309	20 - 80	3&4	M1 - M2	Door Mount	5.75
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SIRCO M - MV Terminal Shrouds

Item	Rating (A)	Poles	Frame	Position	IP Rating	Trade Price
2294 3005	20 - 40	3	M1	Top-Bottom	20	8.30
2294 1005	20 - 40	1	M1	Top-Bottom	20	3.78
2294 3009	63 - 80	3	M2	Top-Bottom	20	11.29
2294 1009	63 - 80	1	M2	Top-Bottom	20	3.78
2294 3016	100 - 160	3	M3 - MV	Top-Bottom	20	16.54
2294 1011	100 - 125	1	M3	Top-Bottom	20	5.37
2294 4016	125 - 160	4	MV	Top-Bottom	20	23.74



Terminal Shrouds

CONSUMER UNITS - Surface IP41 EN60439-3

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. Applicable standard is EN60439-3 for a rated current of 80A at 400Volts. 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	-	-	106.16
G 26-7B	G2-26	63A MCB	Yes	7	-	-	110.63
G 39-7B	G3-39	63A MCB	Yes	7	-	-	135.63

Standard Distribution Boards c/w Type C Incomer

G 13-7C	G1-13	63A MCB	Yes	7	-	-	106.16
G 26-7C	G2-26	63A MCB	Yes	7	-	-	110.63
G 39-7C	G3-39	63A MCB	Yes	7	-	-	135.63

CONSUMER UNITS IP41 WITH MAIN ISOLATOR

Standard Distribution Boards

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GI 13-7	G1-13	Isolator	Yes	7	-	-	110.00
GI 26-7	G2-26	Isolator	Yes	7	-	-	114.53
GI 39-7	G3-39	Isolator	Yes	7	-	-	139.53

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	28.12
G4-63C	CT3G	63	10	C	55	1	28.12
G4-80C	CT3G	80	10	C	55	1	43.26
G4-100C	CT3G	100	10	C	55	1	48.67



G4-63B

SHOWER BOARDS - Priority & Non-Priority

Item	Enclosure	Incoming	Description	Relays	Timer	Trade Price
CV8-PS	CV8PO-RR	40A RCBO	PRIORITY	1	0	151.42
CV8-NPS	CV8PO-RR	40A RCBO	NON PRIORITY	2	0	227.14
CV12-NPST	CV12PO-RR	40A RCBO	NON PRIORITY	2	1	294.14
G13-3NPS	G1-13	40A RCBO	NON PRIORITY	3	0	422.00

CONSUMER UNITS - Flush EN60439-3

Exclusive design for flush mounting. The rear housing is manufactured in plastic and is fitted with a metal door. 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. Applicable standard is EN60439-3 for a rated current of 80A at 400 Volts.

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 WITH MAIN 10kA MCB - Flush Concrete or Cavity Wall

Flush Distribution Boards c/w Type B Incomer

Item	Enclosure*	Incoming	RCCB	MCB	RCBO	Traffo	Trade Price
K12-7B	K1-12	63A MCB	Yes	7	-	-	112.32
K24-7B	K2-24	63A MCB	Yes	7	-	-	135.20
K36-7B	K3-36	63A MCB	Yes	7	-	-	176.80



K12-7

Flush Distribution Boards c/w Type C Incomer

K12-7C	K1-12	63A MCB	Yes	7	-	-	112.32
K24-7C	K2-24	63A MCB	Yes	7	-	-	135.20
K36-7C	K3-36	63A MCB	Yes	7	-	-	176.80

CONSUMER UNITS IP41 WITH MAIN ISOLATOR- Flush Concrete or Cavity Wall

Item	Enclosure*	Incoming	RCCB	MCB	RCBO	Traffo	Trade Price
KI12-7	K1-12	Isolator	Yes	7	-	-	116.81
KI24-7	K2-24	Isolator	Yes	7	-	-	134.12
KI36-7	K3-36	Isolator	Yes	7	-	-	177.38

Flush Enclosure dimensions on Page 23

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	28.12
G4-63C	CT3G	63	10	C	55	1	28.12
G4-80C	CT3G	80	10	C	55	1	43.26
G4-100C	CT3G	100	10	C	55	1	48.67



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	-	-	91.79
AGRI 9	GCUT8	63A MCB	Yes	4	-	-	110.14
AGRI 13-7	GCUT112	63A MCB	Yes	7	-	-	119.33
AGRI 26-7	GCUT224	63A MCB	Yes	7	-	-	133.10
AGRI 39-7	GCUT336	63A MCB	Yes	7	-	-	151.15

CONSUMER UNITS DESIGNED AND MADE TO YOUR REQUIREMENTS - EN60439-3E

GARO offers a full customised CAD design, specification and manufacturing process on special consumer units from our technical sales team.

With local stock and our own manufacturing facility in house we deliver 98% of all special within 48 hours of order.

Call us to get a quote. For your information, some variations supplied "of the shelf" are listed below.

CONSUMER UNITS IP41 WITH MAIN 10kA MCB

Standard Distribution Boards c/w Bell Transformer

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
G13-7T	G1-13	63A MCB	Yes	7	-	8-12V	112.53
G26-7T	G2-26	63A MCB	Yes	7	-	8-12V	123.13
G39-7T	G3-39	63A MCB	Yes	7	-	8-12V	140.03

Combined Distribution Boards c/w Bell Transformer / Bathroom RCBO & optional Shower RCBO

G26-7TB	G2-26	63A MCB	Yes	7	10A	8-12V	156.67
G26-7TBS	G2-26	63A MCB	Yes	7	10A + 40A	8-12V	190.53
G26-8TB	G2-26	63A MCB	Yes	8	10A	8-12V	162.67
G26-8TBS	G2-26	63A MCB	Yes	8	10A + 40A	8-12V	196.67

Item Symbols:

T = Bell Traffo
B = Bathroom
S = Shower

CONSUMER UNITS IP41 WITH MAIN ISOLATOR

Standard Distribution Boards c-w Bell Transformer

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
GI 13-7T	G1-13	Isolator	Yes	7	-	8-12-24V	116.53
GI 26-7T	G2-26	Isolator	Yes	7	-	8-12-24V	127.13
GI 39-7T	G3-39	Isolator	Yes	7	-	8-12-24V	144.03

Combined Distribution Boards

GI 26-7TB	G2-26	Isolator	Yes	7	10A	8-12-24V	161.17
GI 26-7TBS	G2-26	Isolator	Yes	7	10 & 40A	8-12-24V	195.53
GI 26-8TB	G2-26	Isolator	Yes	8	10A	8-12-24V	201.37
GI 26-8TBS	G2-26	Isolator	Yes	8	10 & 40A	8-12-24V	231.77

Item Symbols:

T = Bell Traffo
B = Bathroom
S = Shower

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	6-10	B	7	1	140.00
GI 26-7C KIT	G 2-26 + CT3G	63	6-10	C	7	1	140.00
GI 39-7B KIT	G 3-39 + CT3G	63		B	7	1	153.23

Kits consist of a standard 7 way G-Line Consumer Unit and a Main Overcurrent Device ("B" or "C" characteristic). 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 12 PO-VO	314	314	88	368	343	88
SIL 24 PO-VO	314	414	88	368	443	88
SIL 36 PO-VO	314	539	88	368	568	88
SIL 48 PO-VO	314	724	88	368	753	88

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 c-w mounting plate

Item	Height mm	Width mm	Depth mm	Trade Price
GN302015	300	200	150	62.56
GN302515	300	250	150	63.90
GN303015	300	300	150	66.92
GN403015	400	300	150	82.01
GN403020	400	300	200	88.09
GN404020	400	400	200	101.41
GN504020	500	400	200	111.74
GN504025	500	400	250	118.31
GN604020	600	400	200	116.49
GN604025	600	400	250	131.74
GN604030	600	400	300	144.81
GN606025	600	600	250	179.25
GN606030	600	600	300	201.63
GN705020	700	500	200	177.33
GN806020	800	600	200	209.24
GN806025	800	600	250	215.58
GN806030	800	600	300	242.68
GN808030	800	800	300	306.08
GN806040	800	600	400	282.78
GN1006025	1000	600	250	294.71
GN1008030	1000	800	300	346.38
GN1008040	1000	800	400	406.39
GN1206030	1200	600	300	419.06
GN12010030	1200	1000	300	435.42



** 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	69.82
CH4030	Din Rail & Cover	3 Row x 11 Mod	GN403015-20	72.29
CH5040	Din Rail & Cover	3 Row x 16 Mod	GN504015-20	78.89
CH6040	Din Rail & Cover	4 Row x 16 Mod	GN604020	83.65
CH8060	Din Rail & Cover	4 Row x 26 Mod	GN806020	88.10
		1 Row x 24 Mod		
SP250	Chassis fixing for 250mm box		250mm depth	29.63
SP300	Chassis fixing for 300mm box		300mm depth	31.49
GN48451	7mm Triangular Lock		ALL	23.46
GN48456	Quarter Turning Lock with Key		ALL	11.78
GN48457	Quarter Turn Key Lock		ALL	23.46
GNKEY	7mm Plastic Key		ALL	1.12
ARGENTA-WB	Wall bracket			4.61



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	96.33
POL403020	66	400	300	200	125.62
POL404020	66	400	400	200	141.81
POL504020	66	500	400	200	176.91
POL604023	66	600	400	230	201.38
POL605023	66	600	500	230	220.66
POL806030	66	800	600	300	362.63



Modular Chassis

Item	Cabinet Reference	Modules	Rows	Trade Price
PCH4030	POL403020	24	2	72.44
PCH4040	POL404020	36	2	74.68
PCH5040	POL504020	54	3	93.55
PCH6040	POL604023	54	3	107.37
PCH6050	POL605023	69	3	129.97
PCH8060	POL806030	116	4	156.43



Chassis 2 row 36 mod

Accessories

		Trade Price
POL29222	4 x polyester wall brackets	15.70
POL29240	4 x zinc steel wall brackets	15.70
GN48451	7mm Triangular Lock	23.46
GN48457	Quarter Turn Key Lock	23.46
GNKEY	7mm Plastic Key	1.12

Backplate - Metal

Item	Trade Price
PML3025	4.63
PML4030	6.62
PML4040	8.89
PML5040	13.90
PML6040	14.04
PML6050	34.35
PML8060	38.30

Backplate - Polyester

Item	Trade Price
PPL3025	9.35
PPL4030	13.30
PPL4040	17.01
PPL5040	23.73
PPL6040	28.92
PPL6050	34.03
PPL8060	52.52

TECHNICAL DATA

Degree of protection
Glow wire rating
Resistance to impact
Colour

IP66
960° C
IK10
RAL 9002

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

POLYESTER ENCLOSURES IP55

Enclosures IP55

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
POL1007530	55	1000	750	300	844.05
POL1007542	55	1000	750	420	928.47



Enclosure

Backplates

Item	Cabinet Reference	Height mm	Width mm	Depth mm	Trade Price
PPL1007530	POL1007530	950	700	4	122.03
PPL1007542	POL1007542	950	700	4	122.03



Back Plate

Steel Pedestals

ZOC1007530	POL1007530	50	750	300	146.39
ZOC1007542	POL1007542	50	750	420	194.68

JUNCTION BOXES IP67

Junction Boxes with plain sides

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
EL111	67	108	108	64	2.93
EL161	67	116	162	76	4.68
EL171	67	151	175	95	7.50
EL231	67	180	241	95	10.05
EL322	67	239	328	129	25.69



Junction Box plain sides

ATLANTIC METAL DISTRIBUTION BOARDS IP40

The ATLANTIC Series of metal distribution cabinets have been developed and designed to fulfill an efficient and safe electrical installation where both, technical and aesthetic aspects are demanded.

Easy handling and improved working space are due to their flexibility and reduced number of fixing components, making these cabinets an excellent tool for any type of low voltage electrical installation.

Equipped Enclosures with solid doors

Item	Modules	Rows	Height mm	Width mm	Depth mm	Trade Price
ATLANTIC72PO	72	3	510	670	212	223.81
ATLANTIC96PO	96	4	710	670	212	258.98
ATLANTIC120PO	120	5	910	670	212	292.79
ATLANTIC144PO	140	6	1110	670	212	324.84
ATLANTIC192PO	192	8	1310	670	212	379.01



Accessories (general)

Item	Description	Trade Price
BRASSBAR	Brass Terminal 6.5 x 9 x 288mm	7.11
ATLANTIC KEY	SECURITY LOCK WITH KEY	10.87
ATLANTIC-WB	WALL MOUNTING SUPPORTS (2)	2.63
KKS1-2	Supports for N-E Terminal Block (1 metre)	1.03
ZA2W	57 modules (1 metre)	5.55

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	2.34
BT4 - GO	1 x 4 Mod Enclosure	20	100	133	85	3.65
BV4PTRR - GO	1 x 4 Mod Enclosure	40	180	228	120	15.66
BV8PTRR - GO	1 x 8 Mod Enclosure	40	105	228	191	20.99
CT 3G	1 x 3 Mod Enclosure	65	84	174	111	17.42
CT 4G	1 x 4 Mod Enclosure	55	135	174	101	17.57
GCUT 4	1 x 4 Modules DIN Rails	65	166	231	113	23.83
GCUT 6	1 x 6 Modules DIN Rails	65	202	231	113	26.80
GCUT 8	1 x 8 Modules DIN Rails	65	238	231	118	30.65
GCUT 112	1 x 12 Modules DIN Rails	65	310	246	148	37.01
GCUT 118	1 x 18 Modules DIN Rails	65	418	246	148	58.20
GCUT 224	2 x 12 (24) Modules DIN Rails	65	310	436	148	61.79
GCUT 236	2 x 18 (36) Modules DIN Rails	65	418	436	148	83.00
GCUT 336	3 x 12 (36) Modules DIN Rails	65	310	586	148	85.34
GCUT 354	3 X 18 (54) Modules DIN Rails	65	418	586	148	119.80
** Din rails can be mounted at two different heights						
GCUT N - E	N + E Bar for GCUT 112 - GCUT 354					16.49



BT2 - GO



BT 4 - GO



GCUT 336



GCUT 4



GCUT 6



GCUT 112



GCUT 224

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.

STAR SERIES PLASTIC ENCLOSURES - IP55

STAR series of enclosures are designed for mounting of sockets and wiring to suit individual requirements. Each enclosure is supplied with earth and neutral bars and has a distribution compartment for din rail mounting of components.

Components are mounted behind a reversible transparent window.

Enclosures have supports for fixing mounting plates. Cable entries are adapted to the metric system. Made from halogen free plastic material.

Item	Din rail Modules	Width mm	Height mm	Depth mm	Trade Price
CS4 PT-RR	4	132	330	110	31.24
CS6 PT-RR	6	171	400	110	40.04
CS9 PT-RR	9	219	399	110	45.72
CS12 PT-RR	12	310	436	148	57.49
CS18 PT-RR	18	418	436	148	74.93
CS26 PT-RR	26	290	550	148	91.29

* 2 rows x 13 modules



STAR TECHNICAL DATA

Degree of protection	IP55	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.

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	16.17
9006 506	6	128	51	108		127	16.73
9006 509	9	182	78	162		166	21.83
9006 514	13	253	41	73	233	223	26.19
9006 518	18	344	105	324		299	30.92

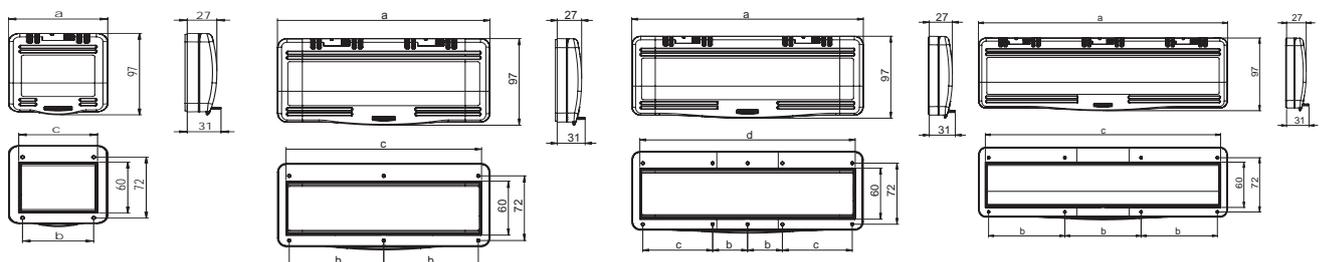


4 Mod window

6 & 9 Mod windows

13 Mod window

18 Mod window



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	26.48
GM 1-14	40	14	1	335	300	111	96.79
GM 1-25	40	25	1	515	300	111	131.04
GM 2-28	40	28	2	335	425	111	123.59
GM 2-50	40	50	2	515	425	111	193.60
GM 3-42	40	42	3	335	550	111	144.46
GM 3-75	40	75	3	515	550	111	242.73
GM KEYLOCK	Lock and key set for GM boards (except GM 1-6)						21.69



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	236.87
MSI 48-1C	40	48	4	315	680	145	265.73
MSI 90-2C	40	90	3	610	530	145	326.45
MSI 120-2C	40	120	4	610	680	145	388.71
MSSKL	Lock and key set for MSI cabinets						31.86
TF50	Flat Flange Size 11						5.54



MSI 48-1C

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	33.28
G2-26	41	28	2	300	370	125	39.43
G3-39	41	42	3	300	495	125	62.05
BV8PORR-GO	40	8	1	191	228	99	18.85
BV12PO-GO	40	12	1	264	228	99	23.53
BV24PO-GO	40	24	2	264	353	99	40.64



G2-26

Plastic Enclosures c-w metal door - flush mounting

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
SIL 12 PO-VO	41	12	1	368	343	93	56.88
SIL 24 PO-VO	41	24	2	368	443	93	63.92
SIL 36 PO-VO	41	36	3	368	568	93	90.47
SIL 48 PO-VO	41	48	4	368	753	93	133.66



BV12PO-GO

Enclosure* Internal "cut-out" Dimensions

Enclosure*	Width mm	Height mm	Depth mm
SIL 12 PO-VO	314	314	88
SIL 24 PO-VO	314	414	88
SIL 36 PO-VO	314	539	88
SIL 48 PO-VO	314	724	88



SIL 24 PO

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	21.59
SS 325 IP65	25	3	65	100	125	72	23.20
SS 332 IP65	32	3	65	100	125	72	25.45
SS 340 IP65	40	3	65	125	175	90	29.44
SS 363 IP65	63	3	65	125	175	90	30.36
SS 380 IP65	80	3	65	190	280	130	64.02
SS 3100 IP65	100	3	65	190	280	130	79.79
SS 3125 IP65	125	3	65	190	280	130	91.25



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	24.84
SS 425 IP65	25	4	65	100	125	72	25.97
SS 432 IP65	32	4	65	100	125	72	27.02
SS 440 IP65	40	4	65	125	175	90	32.94
SS 463 IP65	63	4	65	125	175	90	34.64
SS 480 IP65	80	4	65	190	280	130	68.74
SS 4100 IP65	100	4	65	190	280	130	83.32
SS 4125 IP65	125	4	65	190	280	130	96.68



SS 440 IP65

Safety Switches - AUX Modules

Item	Description	Trade Price
RAC20	20A AUX Module	2.80
RAC25	25A AUX Module	2.80
RAC32	32A AUX Module	2.80
RAC40	40A AUX Module	2.80
RAC63	63A AUX Module	2.80
RAC80	80A AUX Module	7.01



SS 4100 IP65

SOLAR DC Isolators

Item	Rating (A)	Poles	IP Rating	Trade Price
SS 416 IP65 DC	16	2	65	23.46
SS 432 IP65 DC	32	4	65	36.48



SS 416 IP65 DC

SIRCO M Polycarbonate Safety Switches - Grey - Black **

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
2215 3301	20	3	65	99	162	92	30.84
2215 3302	25	3	65	99	162	92	31.21
2215 3303	32	3	65	99	162	92	38.90
2215 3304	40	3	65	99	162	92	61.03
2215 3306	63	3	65	125	210	92	71.16
2215 3308	80	3	65	125	210	92	110.05
2215 3309	100	3	65	125	210	92	112.31



2215 3306

** Also available in Red / Yellow

ISOLATOR SWITCHES ENCLOSED IP53 - IP55 - 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	24.05
SW 32 IP53M	32	3	53	135	220	85	38.99
SW 40 IP53M	40	3	53	135	220	85	40.61
SW 63 IP53M	63	3	53	135	220	85	41.62
SW 80 IP53M	80	3	53	245	315	125	84.65
SW 100 IP53M	100	3	53	245	315	125	91.32
SW 125 IP53M	125	3	53	245	315	125	98.99



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	140	323.97
SW 125 IP65P	125	3	65	300	400	200	471.98
SW 160 IP65P	160	3	65	300	400	200	535.64
SW 200 IP65P	200	3	65	400	400	200	565.31
SW 250 IP65P	250	3	65	400	400	200	597.08
SW 400 IP65P	400	3	65	400	500	200	725.35
SW 500 IP65P	500	3	65	400	500	200	818.07
SW 630 IP65P	630	3	65	400	600	230	931.32



SW 320 IP55M

Metalclad Isolator Switches 3 Pole - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SW320 IP55M	20	3	1	55	180	215	135	132.72
SW340 IP55M	40	3	1	55	180	215	135	139.68
SW363 IP55M	63	3	1	55	180	215	135	151.96
SW380 IP55M	80	3	1	55	180	215	135	157.91
SW3100 IP55M	100	3	1	55	180	215	135	169.06
SW3125 IP55M	125	3	2	55	270	300	150	281.69
SW3160 IP55M	160	3	2	55	270	300	150	291.46
SW3200 IP55M	200	3	2	55	320	395	175	316.96
SW3250 IP55M	250	3	3	55	320	395	175	443.87
SW3315 IP55M	315	3	4	55	450	600	275	660.55
SW3400 IP55M	400	3	4	55	400	600	250	652.42
SW3630 IP55M	630	3	4	55	400	600	250	888.62



SW 3100 IP55M

Metalclad Isolator Spreader-Header Box - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SGBOX 3	250	3 & 4	3	55	275	320	175	148.09
SGBOX 4	315-630	3 & 4	4	55	275	450	275	238.66



SGBOX 3

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
SW420 IP55M	20	4	1	55	180	215	135	133.00
SW440 IP55M	40	4	1	55	180	215	135	139.91
SW463 IP55M	63	4	1	55	180	215	135	153.89
SW480 IP55M	80	4	1	55	180	215	135	159.84
SW4100 IP55M	100	4	1	55	180	215	135	171.00
SW4125 IP55M	125	4	2	55	320	300	150	288.60
SW4160 IP55M	160	4	2	55	320	300	150	307.39
SW4200 IP55M	200	4	2	55	320	300	150	376.47
SW4250 IP55M	250	4	3	55	320	395	175	471.80
SW4315 IP55M	315	4	4	55	450	600	275	677.45
SW4400 IP55M	400	4	4	55	450	600	275	689.75
SW4630 IP55M	630	4	4	55	450	600	275	1,092.44



SW480 IP55M

Metalclad Isolator Spreader-Header Box - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SGBOX 3	250	3 & 4	3	55	275	320	175	148.09
SGBOX 4	315-630	3 & 4	4	55	275	450	275	238.66

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
FS332 IP55BS	32	3	A1	1	55	180	215	135	244.59
FS363 IP55BS	63	3	A2-A3	2	55	270	300	150	275.58
FS3100 IP55BS	100	3	A4	3	55	320	395	175	426.44
FS3160 IP55BS	160	3	A3-A4	3	55	320	395	175	517.75
FS3200 IP55BS	200	3	B1-B2	3	55	320	395	175	626.84
FS3250 IP55BS	250	3	B1-B3	4	55	450	600	275	922.82
FS3400 IP55BS	400	3	B1-B4	4	55	450	600	275	1,183.82
FS3630 IP55BS	630	3	C1-C2	5	55	550	750	300	1,885.61



FS332 IP55BS

Metalclad Fuse Switch Spreader-Header Box - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SGBOX 3	80 - 160	3	3	55	275	320	175	148.09
SGBOX 4	200-400	3	4	55	275	450	275	238.66
SGBOX 5	630	3	5	55	275	550	375	282.53

FUSE SWITCHES - NH TYPE - ENCLOSED IP55 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	427.30
FS63 IP65P	63	3	65	250	300	140	481.04
FS125 IP65P	125	3	65	300	400	200	559.35
FS160 IP65P	160	3	65	300	400	200	572.40
FS250 IP65P	250	3	65	500	600	230	848.31
FS400 IP65P	400	3	65	600	800	300	1,159.69

Metalclad Fuse Switches 3 Pole - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
FS320 IP55NH	20	3	1	55	180	215	135	222.16
FS332 IP55NH	32	3	1	55	180	215	135	227.09
FS363 IP55NH	63	3	2	55	270	300	150	327.35
FS380 IP55NH	80	3	3	55	320	395	175	466.97
FS3100 IP55NH	100	3	3	55	320	395	175	466.97
FS3125 IP55NH	125	3	3	55	320	395	175	468.03
FS3160 IP55NH	160	3	3	55	320	395	175	470.69
FS3200 IP55NH	200	3	4	55	450	600	275	859.86
FS3250 IP55NH	250	3	4	55	450	600	275	859.86
FS3315 IP55NH	315	3	4	55	450	600	275	1,018.99
FS3400 IP55NH	400	3	4	55	450	600	275	1,018.99
FS3630 IP55NH	630	3	5	55	550	750	300	1,637.81



FS332 IP55NH



FS3250 IP55NH

Metalclad Fuse Switch Spreader-Header Box - IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
SGBOX 3	80 - 160	3	3	55	275	320	175	148.09
SGBOX 4	200-400	3	4	55	275	450	275	238.66
SGBOX 5	630	3	5	55	275	550	375	282.53

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	300	400	200	193.76
BBL250	Enclosed Metal Busbar Chamber	250	3P & N	55	600	400	200	463.45
BBL400	Enclosed Metal Busbar Chamber	400	3P & N	55	600	400	250	526.91

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	80.78
CO 32 IP53M	32	3	53	220	270	117	84.33
CO 40 IP53M	40	3	53	220	270	117	87.27
CO 63 IP53M	63	3	53	220	270	117	91.75
CO 80 IP53M	80	3	53	250	370	130	170.75
CO 100 IP53M	100	3	53	250	370	130	179.91
CO 125 IP53M	125	3	53	250	370	130	193.63



CO 80 IP53M

Metalclad Changeover Switches - IP55

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
CO 63 IP55M	63	3	55	250	300	150	318.26
CO 80 IP55M	80	3	55	250	300	150	335.56
CO 125 IP55M	125	3	55	300	400	150	649.73
CO 160 IP55M	160	3	55	400	500	250	687.95
CO 250 IP55M	250	3	55	400	500	250	908.96
CO 400 IP55M	400	3	55	600	800	300	1,180.62



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	3	65	190	280	130	90.73
CO 32 IP65P	32	3	65	190	280	130	94.39
CO 40 IP65P	40	3	65	190	280	130	97.43
CO 63 IP65P	63	3	65	190	280	130	102.04
CO 80 IP65P	80	3	65	342	253	129	215.74
CO 100 IP65P	100	3	65	342	253	129	233.90
CO 125 IP65P	125	3	65	300	200	140	525.72
CO 160 IP65P	160	3	65	400	500	200	757.81
CO 250 IP65P	250	3	65	400	600	230	978.85
CO 400 IP65P	400	3	65	600	800	300	1,352.69



CO 63 IP65P

GPK METALCLAD SWITCHGEAR IP44

Meter Boxes

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
MSP1	Meter Box Single Phase	220	330	190	4	1	114.43
MSP2	Meter Box Three Phase	275	440	230	2	1	151.14
MSP4	Meter Box Three Phase	330	550	285	2	11	322.38
ESBCT3	ESB CT Chamber	540	660	240	4	11 & 11	382.64



MSP2

Busbar & Distribution Boxes 275A

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
FP2201-1	Busbar & Distribution Box	220	220	120	4	1	51.01
FP2751-1	Busbar & Distribution Box	275	220	120	4	1	58.99
FP27511-11	Busbar & Distribution Box	275	220	120	2 + 2	1 & 11	58.99
FP44011-11	Busbar & Distribution Box	440	220	120	2 + 2	1 & 11	84.49



FP440

Busbar & Distribution Boxes 630A

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
FPS2201-1	Busbar & Distribution Box	275	275	175	3 + 1	11 + 1	81.31
FPS2751-11	Busbar & Distribution Box	275	275	175	3 + 1	11 + 1	94.87
FPS27511-11	Busbar & Distribution Box	440	275	175	4	11	94.87
FPS44011-11	Busbar & Distribution Box	440	275	175	4	11	128.78
FPS440111-111	Busbar & Distribution Box	440	275	175	2 + 2	11 & 111	132.32



FPS275

GPK METALCLAD SWITCHGEAR IP44

Isolators

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
LSP380	80A TP & N Isolator	215	160	120	2	1	146.21
SLSP31251-1	125A TP & N Isolator	215	220	150	2	1	331.12
SLSP312511-11	125A TP & N Isolator	270	275	150	2	11	358.73
SLSP316011-11	160A TP & N Isolator	270	275	150	2	11	386.32
SLSP3200	200A TP & N Isolator	270	275	150	2	11	407.68
SLSP3250	250A TP & N Isolator	270	275	150	2	11	603.29



SLBPS3125

Switchfuses (Complete with Fuses & Caps)

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
GBDO363	63A TP Switchfuse	215	330	120	4	1	285.13
SLBPS3125	125A TP Switchfuse	270	275	220	2	11	551.22
SLBPS3160	160A TP Switchfuse	270	275	220	2	11	590.51
SLBPS3250	250A TP Switchfuse	435	400	240	2	11	860.92
SLBPS3400	400A TP Switchfuse	435	440	240	2	111	1,195.73



FPK21

Cable Spreader Boxes

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
FPK21	Cable Spreader	270	330	175	2	11	154.50
FPK33	Cable Spreader	435	330	175	2	111	226.28

* Flanges sold separately - see below.

Accessories

Item	Description	Trade Price
BFO	Flange Size 1	4.24
BFSO	Flange Size 11	18.30
TFZO	Flat Flange Size 11	5.54
RFZO	Flange Size 111	91.24
NPE 35	Neutral - Earth Terminal 35mm	11.55
NPE 120	Neutral - Earth Terminal 120mm	37.08
TBN185	Neutral - Earth Terminal 185mm	52.46
SEAL	Sealing Screw 5mm	2.04
SEALKIT	GPK Sealing Kit	14.71
K 416	4 x 16mm Terminal Block	27.11
K 435	4 x 35mm Terminal Block	45.40
K 495	4 x 95mm Terminal Block	57.69
K 4120	4 x 120mm Terminal Block	78.03
K 4185	4 x 185mm Terminal Block	141.39



K416



K435



K4120



NPE35



NPE120



FLANGES

DISCONNECTORS

FUSE SWITCH DISCONNECTS

Item	Rating (A)	Size	Trade Price
707.036.405	160A	3 Pole NH00	42.63
707.037.001	250A	3 Pole NH1	127.80
707.038.001	400A	3 Pole NH2	202.99
707.039.001	630A	3 Pole NH3	260.64



707.037.001

FUSE DISCONNECTORS

Item	Rating (A)	Poles	Size	Trade Price
EFD 101P	32A	1	10 x 38	2.97
EFD 102P	32A	2	10 x 38	6.50
EFD 103P	32A	3	10 x 38	9.36
EFD 221P	100A	1	22 x 58	11.42
EFD 223P	100A	3	22 x 58	36.95



EFD 101P



EFD 103P



EFD 221P



EFD 223P

FUSES - Cylindrical - DO

DO Fuses gG(gl)

Item	Rating (A)	Type	Trade Price
6NZ01	6	DO1	0.58
20NZ02	20	DO2	0.58
25NZ02	25	DO2	0.58
35NZ02	35	DO2	0.58
50NZ02	50	DO2	0.79
63NZ02	63	DO2	0.79



Fuses Cylindrical

Item	Rating (A)	Type	Size	Trade Price
FUSE 2A	2	10 X 38	0	0.91
FUSE 4A	4	10 X 38	0	0.56
FUSE 6A	6	10 X 38	0	0.65
FUSE 10A	10	10 X 38	0	0.48
FUSE 16A	16	10 X 38	0	0.84
FUSE 20A	20	10 X 38	0	0.84
FUSE 25A	25	10 X 38	0	0.91
FUSE 32A	32	10 X 38	0	0.91
MS63	63	22 X 58	2	2.81
MS80	80	22 X 58	2	2.81
MS100	100	22 X 58	2	2.81

FUSES NH 120kA gL-gC

Item	Rating (A)	Trade Price
NH00C		
NV00C 6A	6	3.38
NV00C 10A	10	3.38
NV00C 16A	16	3.38
NV00C 20A	20	3.38
NV00C 25A	25	2.64
NV00C 35A	35	2.64
NV00C 40A	40	2.64
NV00C 50A	50	2.64
NV00C 63A	63	2.64
NV00C 80A	80	2.98
NV00C 100A	100	2.98
NH00		
NV00 125A	125	3.93
NV00 160A	160	3.93
NH1		
NV1 200A	200	7.45
NV1 250A	250	7.45
NH1C		
NV1C 63A	63	5.25
NV1C 80A	80	5.25
NV1C 100A	100	5.25
NV1C 125A	125	5.25
NV1C 160A	160	5.25
NH2C		
NV2C 63A	63	8.36
NV2C 80A	80	8.36
NV2C 100A	100	8.36
NV2C 125A	125	8.36
NV2C 160A	160	8.36
NV2C 200A	200	8.36
NV2C 250A	250	8.36
NH2		
NV2 315A	315	9.46
NV2 355A	355	9.46
NV2 400A	400	9.46
NH3C		
NV3C 250A	250	14.74
NV3C 315A	315	14.74
NV3C 355A	355	14.74
NV3C 400A	400	14.74
NH3		
NV3 500A	500	16.47
NV3 630A	630	16.47
NH4		
NV4 630A	630	62.16
NV4 800A	800	62.16
NV4 1000A	1000	65.54



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 260 watt to 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



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	726.00
GPVM 2-Panel Kit	Panels, Inverters, Meter, & Fixings 520 watt	6A	GM1D	2	2	1,338.00
GPVM 3-Panel Kit	Panels, Inverters, Meter, & Fixings 780 watt	10A	GM1D	3	3	1,950.00
GPVM 4-Panel Kit	Panels, Inverters, Meter, & Fixings 1040 watt	10A	GM1D	4	4	2,568.00
GPVM 5-Panel Kit	Panels, Inverters, Meter, & Fixings 1300 watt	10A	GM1D	5	5	3,180.00
GPVM 6-Panel Kit	Panels, Inverters, Meter, & Fixings 1560 watt	20A	GM1D	6	6	3,832.00
GPVM 7-Panel Kit	Panels, Inverters, Meter, & Fixings 1820 watt	20A	GM1D	7	7	4,452.00
GPVM 8-Panel Kit	Panels, Inverters, Meter, & Fixings 2080 watt	20A	GM1D	8	8	5,070.00

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	1,704.00
GPVS 4-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1040 watt	4	1	2,070.00
GPVS 5-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1300 watt	5	1	2,428.00
GPVS 6-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1560 watt	6	1	2,828.00
GPVS 7-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 1820 watt	7	1	3,154.00
GPVS 8-PanelKit	Panels, Inverter, DC & AC Isolators, & Fixings 2080 watt	8	1	3,528.00

GARO FOR COMMERCIAL PV

Turnkey Service

Full Design

Commissioning Service

Garo's medium Voltage switchgear

100 % European manufacturing facilities

Comprehensive reliable warranties

ELECTRIC VEHICLE CHARGING
DC Fast Charger GQC 50

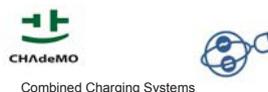
For combined charging
COMBO and CHAdeMO

With GARO GQC50 ECO, all vehicles can fast charge from the same station.

The station's output is 50 kW, which means that an electric car can be charged in 15-30 minutes depending on battery size.

The charger is equipped with a connector for CHAdeMO standard and one for the new German COMBO Standard.

The station can also be equipped with a type 2 connector for Mode 3 AC charging.



* Prices available upon request.

Technical Data

INCOMING POWER	
Phases	3 Phase + Earth + Neutral
Voltage	400Vac
Current	73A
Power	50kVa
Frequency	50-60 Hz +- 10%

CHARGER DATA	
Voltage	50 – 500 Vdc
Current	0 –120 A
Power output kW	50 kW
CHAdeMO connector Type	JEVS G105-CAN
COMBO connector Type	COMBO T2
AC connector Type	Type 2 for mod 3 (option)
Weight	800 kg
Temperature	-25 to +50 °C
Noise Level	< 55 dB
Standard	IEC 61851-1 m fl

CHAdeMO

AC

Combo-T2



ELECTRIC VEHICLE CHARGING

Home EV

The charger is a safe and effective way to charge electric vehicles at home & private parking lots.

The charger is provided with an outlet Type 2 socket and will connect with all Electric Vehicles. All versions are fitted with residual current breaker with over-current protection (RCBO).



Item	Description	Rated A	Voltage V	Trade Price
GHL-T237 WO	Charge socket outlet Type 2	16	230 - 400	929.80
GHL-T274 WO	Charge socket outlet Type 2	32	230 - 400	929.80

On-street & public car parks EV

The LS4 charger is designed for outdoor and on-street EV charging.

The post can be securely and safely mounted on the ground surface with our Ground Mounting Kit.

The LS 4 charging station features

- 2 outlets,

- 4 configurations

- all available in either 16A or 32A with varying power output kW

All operate under Mode 3 with communication between the car and the charger.



WITHOUT METER

Item	Description	Rated Current per outlet	Power kW per outlet	Trade Price
LS4-T237W U MAT	2 EV outlets, Type 2, RCCB type A	16	3.7	3,414.32
LS4-T274W U MAT	2 EV outlets, Type 2, RCCB type A	32	7.4	3,414.32
LS4-T211W U MAT	2 EV outlets, Type 2, RCCB type B	16	11.0	4,393.95
LS4-T222W U MAT	2 EV outlets, Type 2, RCCB type B	32	22.0	4,393.95

WITH METER

Item	Description	Rated Current per outlet	Power kW per outlet	Trade Price
LS4M-T237W M MAT	2 EV outlets, Type 2, RCCB type A	16	3.7	3,502.24
LS4M-T274W M MAT	2 EV outlets, Type 2, RCCB type A	32	7.4	3,502.24
LS4M-T211W M MAT	2 EV outlets, Type 2, RCCB type B	16	11.0	4,626.01
LS4M-T222W M MAT	2 EV outlets, Type 2, RCCB type B	32	22.0	4,626.01

WITH METER & LAN

Item	Description	Rated Current per outlet	Power kW per outlet	Trade Price
LS4M-T211W M LAN	2 EV outlets, Type 2, RCCB type B, RFID	16	11.0	5,951.41
LS4M-T222W M LAN	2 EV outlets, Type 2, RCCB type B, RFID	32	22.0	5,951.41

WITH METER & 3G

Item	Description	Rated Current per outlet	Power kW per outlet	Trade Price
LS4M-T211W M 3G	2 EV outlets, Type 2, RCCB type B, RFID, 3G	16	11.0	6,842.05
LS4M-T222W M 3G	2 EV outlets, Type 2, RCCB type B, RFID, 3G	32	22.0	6,842.05

MARINA & CAMPING

Garó Power Pillar for the supply of electricity and water in marinas and campsites.

Our Pillars are made from marine grade aluminium which can withstand the aggressive weather conditions experienced in marinas and harbours. All structural components are of the highest quality to resist rust and corrosion, thus ensuring reliability and dependability.

Our Pillars are designed for easy installation with the power outlets mounted on the upper part of the Pillar 70 - 80mm from the base, depending on the number of circuits required.

Technical Specifications

Standard:	IEC 60439-3
IP Rating:	IPX6
Power outlets:	2 - 4 x CEE17, 16A Outlets, IP67.
Height:	1300mm
Weight:	8 to 12 kgs
Pillar material:	Weatherproof anodised aluminium.



Light is provided by an LED lamp mounted on top of the unit and lit up in a prism which casts light down and around the Pillar.

Special Features of the GARO Power Pillar

- 1) Each outlet is individually protected by 30mA 2 Pole RCBO.
- 2) All outlets are individually lockable in the closed position.
- 3) Easily replaceable LED lamp for easy maintenance.
- 4) Water supply available from Pillar with energy and water compartments separated by waterproof membrane.
- 5) Detachable hose holder available.
- 6) Power components and meters are mounted behind lockable spring loaded door.



WITHOUT METER

Item	Description	Trade Price
GMS E2 16A	Pillar c-w 2 x 16A pin 230V power outlets (lockable) & 2 RCBOs	1,123.20
GMS E4 16A	Pillar c-w 4 x 16A pin 230V power outlets (lockable) & 4 RCBOs	1,251.94
GMS E2 32A	Pillar c-w 2 x 32A pin 230V power outlets (lockable) & 2 RCBOs	1,782.48

WITH METER

		Trade Price
GMS M2 16A	Pillar c-w 2 x 16A pin 230V power outlets (lockable), 2 RCBOs, 2 SP Meters	1,192.96
GMS M4 16A	Pillar c-w 4 x 16A pin 230V power outlets (lockable), 4 RCBOs, 4 SP Meters	1,546.12

LIGHTING PILLAR

		Trade Price
GMS WL	Lighting Pillar c-w LED	549.70

OPTIONS

		Trade Price
GMS VK	Water Faucet 1-2"	91.29
GMS SH	Hose Holder	45.84

Other arrangements available to order. From 6A to 32A power outlets.



A waterproof membrane inside the Pillar separates the energy and water compartments.

UPS

NETYS PE : 600 - 2000 VA UPS

A complete range of 6 models adapted to protect home and office IT applications. Several IEC 320 sockets (IT standard) simplify the connectivity. The solution for:

Graphic workstations - CAD Multimedia workstations and peripherals LCD screens & monitors POS (Point of Sale)

Control panel with LCD-LEDs for easy monitoring of the operating mode. Battery Life 3 - 5 years.

Item	Description	BUT (mins)**	Trade Price
NPE-0600	600VA line interactive	15	92.12
NPE-0650	650VA line interactive	15	147.83
NPE-0850	850VA line interactive	20	216.38
NPE-1000-LCD	1000VA line interactive	45	347.07
NPE-1500-LCD	1500VA line interactive	55	475.61
NPE-2000-LCD	2000VA line interactive	60	561.31

** PC & 17" LCD monitor



NETYS PE range

NETYS PR : 1000 - 3000 VA versatile UPS

Designed for professional environments, protection against power cuts and overvoltage is ensured by Line Interactive technology with Automatic Voltage Regulation (AVR).

RS232 or USB advanced connections for the management of the power supply and local-remote shutdown of applications.

Advanced diagnostics and remote control via various protocols and user environments:

JBUS, HID, SNMP, TCP-IP. Battery Life 3 - 5 years.

Item	Description	BUT (mins)*	Trade Price
NPR-1000-MT	1kVA line interactive tower	7	471.33
NET 1000-PR-1U	1kVA line interactive mount	8	856.96
NPR-1500-MT	1.5kVA line interactive tower	8	659.86
NET 1500-PR-1U	1.5kVA line interactive mount	8	1,298.29
NPR-1700-RT	1.7kVA line interactive mount	10	991.93
NPR-2000-MT	2kVA line interactive tower-rack	8	889.10
NPR-2200-RT	2.2kVA line interactive rack mount	8	1,334.72
NPR-3300-RT	3.3kVA line interactive rack mount	9	1,743.91

* 75% nominal load



NETYS PR range

Additional Options

Item	Description	Trade Price
NPR-1700-RT-BE	1.7 & 2.2kVA UPS Battery Extension	520.60
NPR-3300-RT-BE	3.3kVA UPS Battery Extension	989.79
NRT-OP-RAIL-PR	19" Rack Support Rail	96.41
NPR-OP-REL	Relay Card - for RT & 1U models only	141.40
NET-OP-USB	USB Cable	10.71

Extension Battery Autonomy (for NPR-xx00-RT):

1.7kVA +1 = 22min - +2 (+ charger) = 45min.

2.2kVA +1 = 42min - +2 (+ charger) = 82min.

3.3kVA +1 = 25min - +2 (+ charger) = 49min.

UPS

NETYS RT : 1100 - 11000 VA UPS

Complete solution for IT infrastructures.

No configuration necessary on first startup. Wide range of communication protocols for integration into LAN networks or Building Management Systems (BMS). Clear LED interface with buzzers that immediately indicate the operating status of the UPS, even for less specialist users (1100 - 3000VA).

Online double conversion technology with sinusoidal waveform, completely filters out all disturbances from-to the mains power supply.

Modular battery extension (MBE). Battery Life 3 - 5 years.

Item	Description	BUT (mins)*	Trade Price
NRT2-U1100	1.1kVA On line tower-rack	8	1,354.74
NRT2-U1700	1.7kVA On line tower-rack	12	1,890.26
NRT2-U2200	2.2kVA On line tower-rack	8	2,282.14
NRT2-U3300	3.3kVA On line tower-rack	10	2,892.86
NRT2-5000k	5kVA On line tower-rack	10	4,725.06
NRT2-7000k	7kVA On line tower-rack	7	6,144.94
NRT2-7000CLA	7kVA On line tower-rack	-	4,569.46
NRT2-9000k	9kVA On line tower-rack	12	7,848.74
NRT2-11000k	11kVA On line tower-rack	8	9,412.54
NRT2-11000CLA	11kVA On line tower-rack	-	6,505.40

* 75% nominal load



NETYS RT range

Additional Options

Item	Description	Trade Price
NRT-B1100	1.1kVA UPS Battery Extension	771.26
NRT-B2200	1.7 & 2.2kVA UPS Battery Extension	1,189.03
NRT-B3000	3kVA UPS Battery Extension	1,681.78
NRT-B7000	5 & 7kVA UPS Battery Extension	1,891.74
NRT-B11000	9 & 11kVA UPS Battery Extension	2,378.06
NRT-OP-BCH48V	Additional battery charger 4-8A 48VDC for UPS 1700VA - 2200VA	1,071.20
NRT-OP-BCH72V	Additional battery charger 4-8A 72VDC for UPS 3000VA	1,345.43
NRT-OP-REL	Relay Card	141.40
NRT-OP-SNMP	SNMP COMMS Card	372.78
NRT-OP-RAIL-RT	19" Rack Support Rail	109.26

ITYS : 1100 - 10000 VA UPS

Full digital control, for protection of professional electronic and computer equipment.

VFI-SS-111 (IEC62040-3) On Line Technology double conversion.

Item	Description	BUT (mins)*	Trade Price
ITY-TW010B	1kVA On line tower	10	1,021.92
ITY-TW020B	2kVA On line tower	17	1,743.91
ITY-TW030B	3kVA On line tower	9	2,020.28
ITY-TW060B	6kVA On line tower	13	4,460.48
ITY-TW100B	10kVA On line tower	9	6,373.64
ITY-TW030LB	3kVA, for use with external battery	-	2,024.57
ITY-TW060LB	6kVA, for use with external battery	-	4,199.10
ITY-TW100LB	10kVA, for use with external battery	-	6,041.57
ITY-EX030B	External Battery for 3kVA	PTO	1,495.40
ITY-EX100B	External Battery for 6 & 10kVA	PTO	4,370.50
ITY-OP-ADC	Relay Card		179.96

* 75% nominal load



ITYS range

GARO PRO

MADE FOR PROFESSIONALS!

GAROs PRO POWER CONNECTORS program is made for professionals and comprises our comprehensive range of CEE - IEC connectors:-

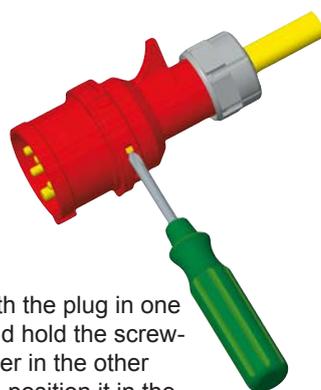
- outlet boxes
- plugs
- couplers

The range features three distinct groups:

- PRO** our standard range of products
- PRO SCENE** solid black products, specially designed for stage, stadium and all event arenas.
- PRO SOLID** our rugged and extra tough range designed even to withstand being run over by construction vehicles.

EASY TO USE!

All GARO PRO and SCENE products in 16 and 32 A are easy and simple to use. A screwdriver on the right point - apply pressure and presto! - it's open.



1) With the plug in one hand hold the screwdriver in the other and position it in the marked recess.



2) Press to click. Then twist to open.

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	3.13
P 216-6 S		200-250	50-60	6 ■	10	3.13
P 232-4 S		100-130	50-60	4 ■	10	9.81
P 232-6 S		200-250	50-60	6 ■	10	9.81
P 263-4 S		100-130	50-60	4 ■	2	39.61
P 263-6 S		200-250	50-60	6 ■	2	30.39
P 316-4 S	4 3p + E	100-130	50-60	4 ■	10	6.00
P 316-6 S		380-415	50-60	6 ■	10	6.00
P 332-4 S		100-130	50-60	4 ■	10	10.32
P 332-6 S		380-415	50-60	6 ■	10	10.32
P 363-4 S		100-130	50-60	4 ■	2	37.12
P 363-6 S		380-415	50-60	6 ■	2	31.16
P 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	4.71
P 416-6 S		200-415	50-60	6 ■	10	6.68
P 432-4 S		100-130	50-60	4 ■	10	10.91
P 432-6 S		200-415	50-60	6 ■	10	10.91
P 463-4 S		100-130	50-60	4 ■	2	45.00
P 463-6 S		200-415	50-60	6 ■	2	32.69

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



PV316-6



PV263-6S

Item	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
PV 216-4	3 2p + E	100-300	50-60	4 ■	10	6.59
PV 216-6		200-250	50-60	6 ■	10	6.59
PV 232-4		100-130	50-60	4 ■	10	12.00
PV 232-6		200-250	50-60	6 ■	10	12.00
PV 263-4S		100-130	50-60	4 ■	2	29.97
PV 263-6S		200-250	50-60	6 ■	2	23.77
PV 2125-4S		100-130	50-60	4 ■	2	121.99
PV 2125-6S		200-250	50-60	6 ■	2	121.99
PV 316-4	4 3p + E	100-130	50-60	4 ■	10	7.81
PV 316-6		380-415	50-60	6 ■	10	7.81
PV 332-4		100-130	50-60	4 ■	10	12.58
PV 332-6		380-415	50-60	6 ■	10	12.58
PV 363-4S		100-130	50-60	4 ■	2	31.82
PV 363-6S		380-415	50-60	6 ■	2	31.82
PV 3125-4S		100-130	50-60	4 ■	2	131.00
PV 3125-6S		380-415	50-60	6 ■	2	131.00
PV 416-4	5 3p + N + E	100-130	50-60	4 ■	10	8.76
PV 416-6		200-415	50-60	6 ■	10	8.76
PV 432-4		100-130	50-60	4 ■	10	14.17
PV 432-6		200-415	50-60	6 ■	10	14.17
PV 463-4S		100-130	50-60	4 ■	2	41.93
PV 463-6S		200-415	50-60	6 ■	2	33.25
PV 4125-4S		100-130	50-60	4 ■	2	135.04
PV 4125-6S		200-415	50-60	6 ■	2	135.04

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	15.85
PA 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	17.71
PA 416-6 S		200-415	50-60	6 ■	10	17.03
PA 432-6 S		200-415	50-60	6 ■	10	24.33

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	15.63
FV 416-6 S	5 3p + N + E	200-415	50-60	6 ■	10	15.63
FV 432-6 S	5 3p + N + E	200-415	50-60	6 ■	10	16.54

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	5.09
S 216-6 S		200-250	50-60	6 ■	10	5.09
S 232-4 S		100-130	50-60	4 ■	10	11.79
S 232-6 S		200-250	50-60	6 ■	10	11.79
S 263-4 S		100-130	50-60	4 ■	2	29.79
S 263-6 S		200-250	50-60	6 ■	2	29.79
S 316-4 S	4 3p + E	100-130	50-60	4 ■	10	6.37
S 316-6 S		380-415	50-60	6 ■	10	6.37
S 332-4 S		100-130	50-60	4 ■	10	12.32
S 332-6 S		380-415	50-60	6 ■	10	12.32
S 363-4 S		100-130	50-60	4 ■	2	29.79
S 363-6 S		380-415	50-60	6 ■	2	29.79
S 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	11.86
S 416-6 S		200-415	50-60	6 ■	10	10.21
S 432-4 S		100-130	50-60	4 ■	10	14.17
S 432-6 S		200-415	50-60	6 ■	10	12.59
S 463-4 S		100-130	50-60	4 ■	2	32.53
S 463-6 S		200-415	50-60	6 ■	2	32.53

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 263-4



SV 316-6

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
SV 216-4	3 2p + E	100-130	50-60	4 ■	10	8.96
SV 216-6		200-250	50-60	6 ■	10	8.96
SV 232-4		100-130	50-60	4 ■	10	15.61
SV 232-6		200-250	50-60	6 ■	10	15.61
SV 263-4		100-130	50-60	4 ■	2	45.90
SV 263-6S		200-250	50-60	6 ■	2	34.35
SV 2125-4S		100-130	50-60	4 ■	2	147.30
SV 2125-6S		200-250	50-60	6 ■	2	147.30
SV 316-4	4 3p + E	100-130	50-60	4 ■	10	10.20
SV 316-6		380-415	50-60	6 ■	10	10.20
SV 332-4		100-130	50-60	4 ■	10	16.62
SV 332-6		380-415	50-60	6 ■	10	16.62
SV 363-4S		100-130	50-60	4 ■	2	37.02
SV 363-6S		380-415	50-60	6 ■	2	37.02
SV 3125-4S		100-130	50-60	4 ■	2	148.29
SV 3125-6S		380-415	50-60	6 ■	2	148.29
SV 416-4	5 3p + N + E	100-130	50-60	4 ■	10	11.71
SV 416-6		200-415	50-60	6 ■	10	11.71
SV 432-4		100-130	50-60	4 ■	10	18.44
SV 432-6		200-415	50-60	6 ■	10	18.44
SV 463-4		100-130	50-60	4 ■	2	34.56
SV 463-6S		200-415	50-60	6 ■	2	45.27
SV 4125-4S		100-130	50-60	4 ■	2	153.91
SV 4125-6S		200-415	50-60	6 ■	2	153.91

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	6.71
UI 216-6 S - RU		200-250	50-60	6 ■	10	6.71
UI 232-4 S - RU		100-130	50-60	4 ■	10	12.59
UI 232-6 S - RU		200-250	50-60	6 ■	10	12.59
UI 316-4 S - RU	4 3p + E	100-130	50-60	4 ■	10	11.61
UI 316-6 S - RU		380-415	50-60	6 ■	10	8.33
UI 332-4 S - RU		100-130	50-60	4 ■	10	12.86
UI 332-6 S - RU		380-415	50-60	6 ■	10	12.86
UI 416-4 S - RU	5 3p + N + E	100-130	50-60	4 ■	10	10.21
UI 416-6 S - RU		200-415	50-60	6 ■	10	10.21
UI 432-4 S - RU		100-130	50-60	4 ■	10	14.65
UI 432-6 S - RU		200-415	50-60	6 ■	10	14.65



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	11.05
UI 216-6 DE - RU		200-250	50-60	6 ■	10	9.20
UI 232-6 DE - RU		200-250	50-60	6 ■	10	14.92
UI 263-4 S - RU		100-130	50-60	4 ■	2	50.39
UI 263-6 S - RU		200-250	50-60	6 ■	2	40.53
UI 316-6 DE - RU	4 3p + E	380-415	50-60	6 ■	10	13.32
UI 332-6 DE -RU		380-415	50-60	6 ■	10	15.52
UI 363-4 S - RU		100-130	50-60	4 ■	2	53.08
UI 363-6 S - RU		380-415	50-60	6 ■	2	43.05
UI 416-6 DE - RU	5 3p + N + E	200-415	50-60	6 ■	10	14.32
UI 432-6 DE - RU		200-415	50-60	6 ■	10	17.85
UI 463-4 S - RU		100-130	50-60	4 ■	2	58.09
UI 463-6 S - RU		200-415	50-60	6 ■	2	46.12

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 316-6-RV



UIV 363-6-RV

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
UIV 216-4 - RV	3 2p + E	100-130	50-60	4 ■	5	13.31
UIV 216-6 - RV		200-250	50-60	6 ■	5	13.31
UIV 232-4 - RV		100-130	50-60	4 ■	5	17.86
UIV 232-6 - RV		200-250	50-60	6 ■	5	17.86
UIV 263-4 - RV		100-130	50-60	4 ■	2	38.31
UIV 263-6S - RU		200-250	50-60	6 ■	2	38.31
UIV 2125-4 - RV		100-130	50-60	4 ■	1	169.18
UIV 2125-6S - RU		200-250	50-60	6 ■	1	169.18
UIV 316-4 - RV	4 3p + E	100-130	50-60	4 ■	5	14.17
UIV 316-6 - RV		380-415	50-60	6 ■	5	14.17
UIV 332-4 - RV		100-130	50-60	4 ■	5	18.50
UIV 332-6 - RV		380-415	50-60	6 ■	5	18.50
UIV 363-4 - RV		100-130	50-60	4 ■	2	32.95
UIV 363-6 - RV		380-415	50-60	6 ■	2	32.95
UIV 3125-4 - RV		100-130	50-60	4 ■	1	173.51
UIV 3125-6S - RU		380-415	50-60	6 ■	1	173.51
UIV 416-4 - RV	5 3p + N + E	100-130	50-60	4 ■	5	15.11
UIV 416-6 - RV		200-415	50-60	6 ■	5	15.11
UIV 432-4 - RV		100-130	50-60	4 ■	5	20.31
UIV 432-6 - RV		200-415	50-60	6 ■	5	20.31
UIV 463-4 - RV		100-130	50-60	4 ■	2	47.71
UIV 463-6 - RV		200-415	50-60	6 ■	2	47.71
UIV 4125-4 - RV		100-130	50-60	4 ■	1	205.33
UIV 4125-6S - RU		200-415	50-60	6 ■	1	205.33

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	10.76
II 216-6 S - RI		200-250	50-60	6 ■	10	10.76
II 232-4 S - RI		100-130	50-60	4 ■	10	13.35
II 232-6 S - RI		200-250	50-60	6 ■	10	13.35
II 263-6 S - RI		200-250	50-60	6 ■	2	43.46
II 316-4 S - RI	4 3p + E	100-130	50-60	4 ■	10	10.19
II 316-6 S - RI		380-415	50-60	6 ■	10	11.48
II 332-4 S - RI		100-130	50-60	4 ■	10	14.41
II 332-6 S - RI		380-415	50-60	6 ■	10	14.41
II 363 6 S - RI		380-415	50-60	6 ■	2	46.63
II 416-4 S - RI	5 3p + N + E	100-130	50-60	4 ■	10	11.02
II 416-6 S - RI		200-415	50-60	6 ■	10	11.47
II 432-4 S - RI		100-130	50-60	4 ■	10	38.00
II 432-6 S - RI		200-415	50-60	6 ■	10	22.85
II 463-6 S - RI		380-415	50-60	6 ■	2	52.68

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 216-6 + RV



IIV 463-6S - RI

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
IIV 216-4 - RV	3 2p + E	100-130	50-60	4 ■	10	23.85
IIV 216-6 - RV		200-250	50-60	6 ■	10	23.85
IIV 232-4 - RV		100-130	50-60	4 ■	10	32.14
IIV 232-6 - RV		200-250	50-60	6 ■	10	32.14
IIV 263-4 - RV		100-130	50-60	4 ■	2	75.76
IIV 263-6S - RI		200-250	50-60	6 ■	2	69.40
IIV 2125-4 - RI		100-130	50-60	4 ■	1	184.06
IIV 2125-6 - RI		200-250	50-60	6 ■	1	176.41
IIV 332-4 - RV	4 3p + E	100-130	50-60	4 ■	10	46.28
IIV 332-6 - RV		380-415	50-60	6 ■	10	46.28
IIV 363-6S - RI		380-415	50-60	6 ■	2	47.28
IIV 3125-4 - RI		100-130	50-60	4 ■	1	198.52
IIV 3125-6 - RV		380-415	50-60	6 ■	1	190.43
IIV 416-4 - RV	5 3p + N + E	100-130	50-60	4 ■	10	27.69
IIV 416-6S - RV		200-415	50-60	6 ■	10	27.47
IIV 432-4 - RV		100-130	50-60	4 ■	10	57.84
IIV 432-6 - RV		200-415	50-60	6 ■	10	57.84
IIV 463-4 - RI		100-130	50-60	4 ■	2	79.83
IIV 463-6S - RI		200-415	50-60	6 ■	2	75.20
IIV 4125-4 - RI		100-130	50-60	4 ■	1	237.86
IIV 4125-6S - RI		200-415	50-60	6 ■	1	230.49

Other clock positions are produced to order.

CONNECTION OUTLETS - 3 WAY 16A IP44

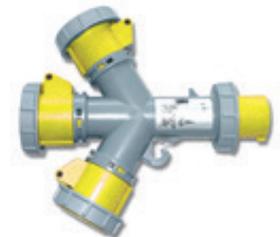
With IEC-CEE 16A socket inlet and 3 x 16A socket outlets
 Connectable cable size: 1,5-4 mm²
 Degree of protection IP44



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	51.08
P3 S216-6S	3	3 x 16A socket outlets	200-250	50-60	6 ■	1	46.44

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	68.22
PV3 S216-6S	3	3 x 16A socket outlets	200-250	50-60	6 ■	1	62.05

ADAPTOR 16A - 13A BS IP44

With IEC-CEE 16A socket inlet & 3-pin BS 13A socket outlet
 Connectable cable size: 1,5-4 mm²
 Degree of protection IP44



Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
II216-6-13A	3	200-250	50-60	6 ■	10	20.45

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 232-6S



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	4.04
UIL 216-6 S		200-250	50-60	6 ■	10	3.68
UI 216-4 S		100-130	50-60	4 ■	10	4.00
UI 216-6 S		200-250	50-60	6 ■	10	3.68
UI 232-4 S		100-130	50-60	4 ■	10	5.53
UI 232-6 S		200-250	50-60	6 ■	10	5.14
UI 263-4 S		100-130	50-60	4 ■	2	41.39
UI 263-6 S		200-250	50-60	6 ■	2	31.82
UI 316-4 S	4 3p + E	100-130	50-60	4 ■	10	6.07
UI 316-6 S		380-415	50-60	6 ■	10	4.60
UI 332-4 S		100-130	50-60	4 ■	10	5.87
UI 332-6 S		380-415	50-60	6 ■	10	5.89
UI 363-4 S		100-130	50-60	4 ■	2	30.69
UI 363-6 S		380-415	50-60	6 ■	2	30.67
UI 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	4.81
UI 416-6 S		200-415	50-60	6 ■	10	4.79
UI 432-4 S		100-130	50-60	4 ■	10	6.80
UI 432-6 S		200-415	50-60	6 ■	10	6.82
UI 463-4 S		100-130	50-60	4 ■	2	33.75
UI 463-6 S		200-415	50-60	6 ■	2	33.74

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	4.04
UIS 216-6 S		200-250	50-60	6 ■	10	3.68
UIS 232-4 S		100-130	50-60	4 ■	10	6.25
UIS 232-6 S		200-250	50-60	6 ■	10	5.53
UIS 263-4 S		100-130	50-60	4 ■	2	30.42
UIS 263-6 S		200-250	50-60	6 ■	2	30.43
UIS 316-4 S	4 3p + E	100-130	50-60	4 ■	10	5.08
UIS 316-6 S		380-415	50-60	6 ■	10	5.07
UIS 332-4 S		100-130	50-60	4 ■	10	5.70
UIS 332-6 S		380-415	50-60	6 ■	10	5.72
UIS 363-4 S		100-130	50-60	4 ■	2	32.58
UIS 363-6 S		380-415	50-60	6 ■	2	32.57
UIS 416-4 S	5 3p + N + E	100-130	50-60	4 ■	10	4.81
UIS 416-6 S		200-415	50-60	6 ■	10	4.79
UIS 432-4 S		100-130	50-60	4 ■	10	6.83
UIS 432-6 S		200-415	50-60	6 ■	10	6.82
UIS 463-4 S		100-130	50-60	4 ■	2	33.78
UIS 463-6 S		200-415	50-60	6 ■	2	33.77

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	9.18
UISV 216-6		200-250	50-60	6 ■	10	9.21
UISV 232-4S		100-130	50-60	4 ■	10	11.54
UISV 232-6S		200-250	50-60	6 ■	10	11.03
UIV 263-4		100-130	50-60	4 ■	2	53.47
UISV 263-6S		200-250	50-60	6 ■	2	32.85
UIV 2125-4		100-130	50-60	4 ■	2	113.35
UISV 2125-6		200-250	50-60	6 ■	2	62.70
UIV 316-4	4 3p + E	100-130	50-60	4 ■	10	12.58
UISV 316-6S		380-415	50-60	6 ■	10	9.50
UIV 332-4		100-130	50-60	4 ■	10	10.48
UISV 332-6S		380-415	50-60	6 ■	10	11.64
UIV 363-6		380-415	50-60	6 ■	2	52.34
UIV 3125-4		100-130	50-60	4 ■	2	187.11
UISV 3125-6S		380-415	50-60	6 ■	2	64.74
UIV 416-4		5 3p + N + E	100-130	50-60	4 ■	10
UISV 416-6S	200-415		50-60	6 ■	10	10.46
UIV 432-4	100-130		50-60	4 ■	10	13.19
UISV 432-6S	200-415		50-60	6 ■	10	12.89
UIV 463-4	100-130		50-60	4 ■	2	28.46
UISV 463-6S	200-415		50-60	6 ■	2	35.60
UIV 4125-4	100-130		50-60	4 ■	2	202.15
UISV 4125-6	200-415		50-60	6 ■	2	68.77

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	4.43
II 216-6 S		200-250	50-60	6 ■	10	4.43
II 232-4 S		100-130	50-60	4 ■	10	6.42
II 232-6 S		200-250	50-60	6 ■	10	6.43
II 263-4 S		100-130	50-60	4 ■	4	19.14
II 263-6 S		200-250	50-60	6 ■	4	19.14
II 316-4 S	4 3p + E	100-130	50-60	4 ■	10	5.53
II 316-6 S		380-415	50-60	6 ■	10	5.53
II 332-4 S		100-130	50-60	4 ■	10	7.35
II 332-6 S		380-415	50-60	6 ■	10	7.35
II 416-4 S	5 3p+N+E	100-130	50-60	4 ■	10	5.53
II 416-6 S		200-415	50-60	6 ■	10	5.53
II 432-4 S		100-130	50-60	4 ■	10	7.35
II 432-6 S		200-415	50-60	6 ■	10	7.35

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	51.59
IIV 263-6		200-250	50-60	6 ■	2	38.85
IIV 2125-4		100-130	50-60	4 ■	2	98.01
IISV 2125-6S		200-250	50-60	6 ■	2	81.66
IIV 363-4	4 3p + E	100-130	50-60	4 ■	2	45.13
IIV 363-6		380-415	50-60	6 ■	2	45.13
IIV 3125-6		380-415	50-60	6 ■	2	94.41
IIV 463-4	5 3p + N + E	100-130	50-60	4 ■	2	45.13
IIV 463-6		200-415	50-60	6 ■	2	45.13
IIV 4125-6		200-415	50-60	6 ■	2	86.48

Other clock positions are produced to order.

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
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16A, 32A, 63A

UBC 216-4S	3 2p + E	100-130	50-60	4 ■	1	63.30
UBC 216-6S		200-250	50-60	6 ■	1	63.30
UBC 232-4S		100-130	50-60	4 ■	1	66.52
UBC 232-6S		200-250	50-60	6 ■	1	66.52
UBV 263-4		100-130	50-60	4 ■	1	185.56
UBV 263-6SI		200-250	50-60	6 ■	1	183.53
UBC 316-4S	4 3p + E	100-130	50-60	4 ■	1	64.63
UBC 316-6S		380-415	50-60	6 ■	1	64.63
UBC 332-4S		100-130	50-60	4 ■	1	70.98
UBC 332-6S		380-415	50-60	6 ■	1	70.98
UBV 363-4		100-130	50-60	4 ■	1	241.02
UBV 363-6SI		380-415	50-60	6 ■	1	191.68
UBC 416-4S	5 3p + N + E	100-130	50-60	4 ■	1	68.08
UBC 416-6S		230-400	50-60	6 ■	1	68.08
UBV 432-4		100-130	50-60	4 ■	1	83.20
UBV 432-6		230-400	50-60	6 ■	1	83.20
UBV 463-4		100-130	50-60	4 ■	1	259.53
UBV 463-6		230-400	50-60	6 ■	1	192.16

125A

UBV 2125-4	3 2p + E	100-130	50-60	4 ■	1	980.68
UBV 2125-6		200-250	50-60	6 ■	1	980.68
UBV 3125-4	4 3p + E	100-130	50-60	4 ■	1	1,020.48
UBV 3125-6		380-415	50-60	6 ■	1	1,020.48
UBV 4125-4	5 3p + N + E	100-130	50-60	4 ■	1	1,051.09
UBV 4125-6		200-415	50-60	6 ■	1	1,051.09

COMBINATION UNITS 16A - 63A IP44

Combination units facilitate socket protection by RCCB.

Enclosure has ample wiring space.

FL 13 flanges in top & bottom combined with knock-outs: 6 x Ø 32 mm

Connectable cable size:

25 mm², earth terminal 10 mm²

Supplied with 2 x membrane cable glands M32

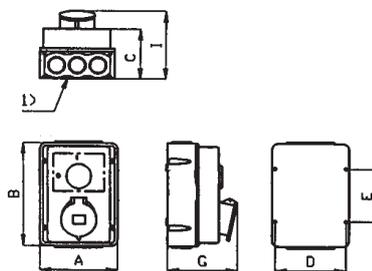
Degree of protection IP44

Components sold separately

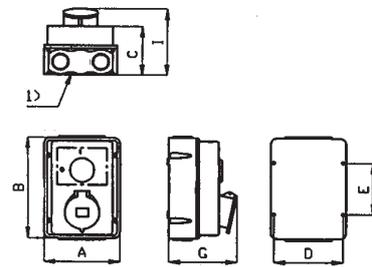


URB 216- 6

In	16 A	32A	63A
Poles	3-4-5	3-4-5	3-4-5
A	160	160	160
B	220	220	260
C	110	110	110
D	144	144	144
E	110	110	150
G	141	143	170



1) Flange Type FL 13 in knockout version or 3 x holes Ø 32 per side.



1) Flange Type FL13 in knockout version or 2 x holes Ø 40 per side.

Type	Poles	Operating Voltage V	Clock pos. Colour code	Package size	Trade Price
16A					
URB 216-4	3	100-130	4	1	67.89
URB 216-6	2p+E	200-250	6	1	65.30
URB 316-6	4- 3p+E	380-415	6	1	108.90
URB 416-6	5- 3p+N+P	200-415	6	1	76.69
32A					
URB 232-4	3	100-130	4	1	69.06
URB 232-6	2p+E	200-250	6	1	66.40
URB 332-6	4- 3p+E	380-415	6	1	108.90
URB 432-6	5- 3p+N+P	200-415	6	1	67.33
63A					
URB 263-6	3- 2p+E	200-250	6	1	87.88
URB 363-6	4- 3p+E	380-415	6	1	90.31
URB 463-6	5- 3p+N+P	200-415	6	1	92.45

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	97.09
URBBV 216-6S	2p + E	5	200-250	6 ■	1	97.09
URBBV 316-4S	4	5	100-130	4 ■	1	99.48
URBBV 316-6S	3p + E	5	380-415	6 ■	1	99.48
URBBV 416-4S	5	5	100-130	4 ■	1	102.65
URBBV 416-6S	3p + N + E	5	200-415	6 ■	1	102.65

32A

URBBV 232-4S	3	5	100-130	4 ■	1	145.92
URBBV 232-6S	2p + E	5	200-250	6 ■	1	145.92
URBBV 332-4S	4	5	100-130	4 ■	1	151.47
URBBV 332-6S	3p + E	5	380-415	6 ■	1	151.47
URBBV 432-4S	5	5	100-130	4 ■	1	156.05
URBBV 432-6S	3p + N + E	5	200-415	6 ■	1	156.05

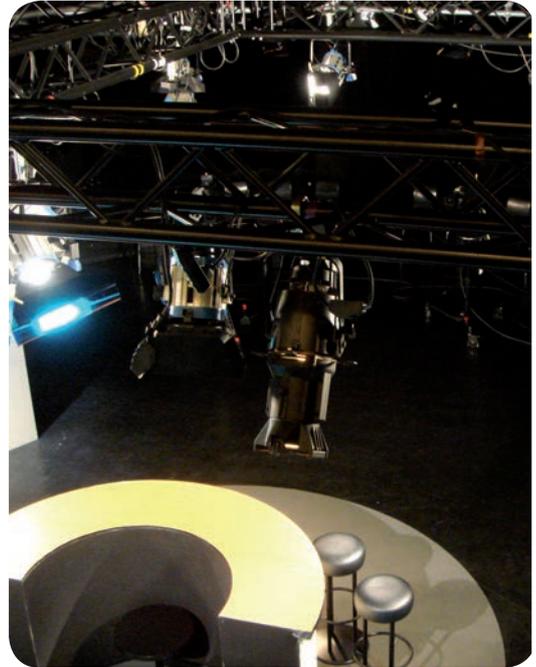
63A

URBBV 263-4S	3	7	100-130	4 ■	1	291.71
URBBV 263-6S	2p + E	7	200-250	6 ■	1	291.71
URBBV 363-4S	4	7	100-130	4 ■	1	299.68
URBBV 363-6S	3p + E	7	380-415	6 ■	1	295.11
URBBV 463-4S	5	7	100-130	4 ■	1	299.68
URBBV 463-6S	3p + N + E	7	200-415	6 ■	1	299.68

125A

URBBV 2125-4S	3	8	100-130	4 ■	1	1,400.98
URBBV 2125-6S	2p + E	8	200-250	6 ■	1	1,400.98
URBBV 3125-4S	4	8	100-130	4 ■	1	1,457.82
URBBV 3125-6S	3p + E	8	380-415	6 ■	1	1,457.82
URBBV 4125-4S	5	8	100-130	4 ■	1	1,501.56
URBBV 4125-6S	3p + N + E	8	200-415	6 ■	1	1,501.56

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

PLUGS & COUPLERS 16 and 32A

Connectable cable size:

16A: 1-2,5 mm²

32A: 2,5-6 mm²

Degree of Protection IP44



P 316 - 6 S - B



S 216-6 S - B

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
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PLUGS IP44

16 A

P 216-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	4.25
P 316-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	5.77
P 416-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	6.02

32 A

P 232-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	8.02
P 332-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	8.76
P 432-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	9.27

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
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COUPLERS IP44

16 A

S 216-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	6.02
S 316-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	8.02
S 416-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	9.01

32 A

S 232-6 S-B	3- 2p+E	200-250	50-60	6 ■	10	10.52
S 332-6 S-B	4- 3p+E	380-415	50-60	6 ■	10	11.02
S 432-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	10	11.77

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



P 4125 6 S+B



S 4125 - 6 S+B

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
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PLUGS IP67

63 A

P 263-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	39.59
P 363-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	40.79
P 463-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	46.01

125 A

P 2125-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	91.21
P 3125-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	96.00
P 4125-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	105.61

Type	Poles	Operating Voltage V	Frequency Hz	Clock pos. Colour code	Package size	Trade Price
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COUPLERS IP67

63 A

S 263-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	48.41
S 363-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	50.02
S 463-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	55.20

125 A

S 2125-6 S-B	3- 2p+E	200-250	50-60	6 ■	2	99.99
S 3125-6 S-B	4- 3p+E	380-415	50-60	6 ■	2	105.61
S 4125-6 S-B	5- 3p+N+P	200-415	50-60	6 ■	2	115.99



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United Kingdom

Head Office, Warehousing & Distribution

Unit 19/307

Northwest Business Park

Ballycoolin

Dublin 15

Ireland



Additional Resources Available On Garo Website

- Webshop
- Detailed Product Catalogue
- Video Installation Centre
- Energy Hub

