



**GENERAL
PRODUCTS**

2016

ADDITIONAL RESOURCES ON **GARO.IE**



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Miniature Components 6kA & 10kA

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

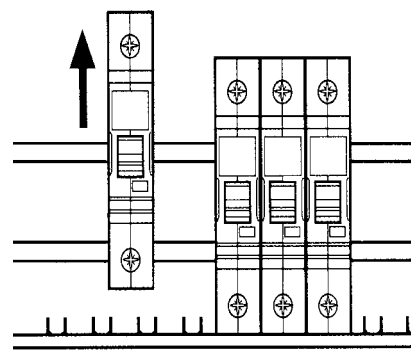
The two switches are compatible with each other.

The 6kA program consists of components of excellent quality, with limited additional features. The components are available with both B and C 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 GARO 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 I_n

Resistive loads
Lights and sockets
Cookers and ovens
Water heaters
Radiators

C-Characteristic 5 - 10 x I_n

Inductive and resistive loads
Microwaves
Motors
Outlets
Washers and Dryers

D-Characteristic 10 - 20 x I_n

Startup Power loads
Welding activity
Lifts
Truck chargers

TECHNICAL DATA BREAKER 6kA

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

Ambient Temperature -25...+56 °C

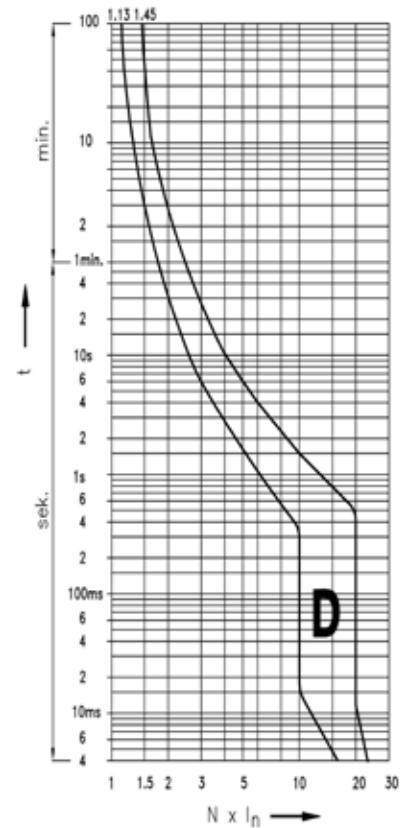
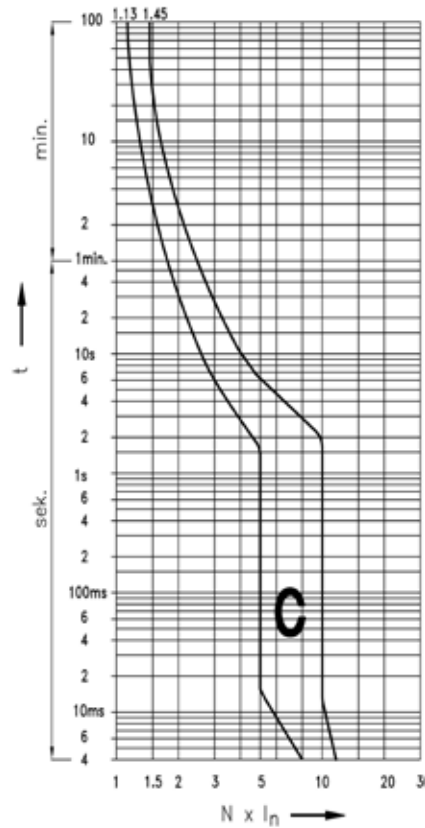
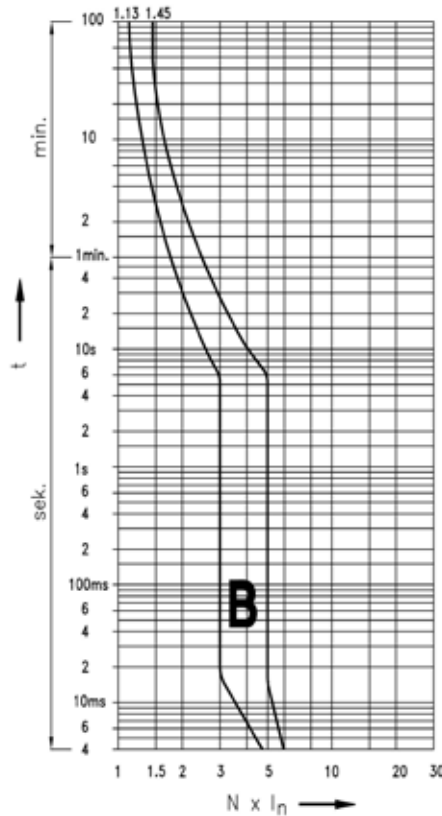
TECHNICAL DATA BREAKER 10kA

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

Ambient Temperature -25 .. +55 °C

Breaker Characteristics

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



The circuit breaker losses by 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

	Ambient temperature T/°C									
I_n (A)	-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

Item	Rated (A)	Packing Units	Trade Price
1-Pole 6kA Characteristic - B			
MCB GRB101	1	12	6.25
MCB GRB102	2	12	6.25
MCB GRB103	3	12	6.25
MCB GRB104	4	12	6.25
MCB GRB106	6	12	6.25
MCB GRB110	10	12	6.25
MCB GRB116	16	12	6.25
MCB GRB120	20	12	6.25
MCB GRB125	25	12	6.25
MCB GRB132	32	12	6.25
MCB GRB140	40	12	8.15
MCB GRB150	50	12	9.53
MCB GRB163	63	12	11.41
2-Pole 6kA Characteristic - B			
MCB GRB206	6	6	16.27
MCB GRB210	10	6	16.27
MCB GRB216	16	6	16.27
MCB GRB220	20	6	16.27
MCB GRB225	25	6	16.27
MCB GRB232	32	6	16.27
MCB GRB240	40	6	20.32
MCB GRB250	50	6	23.68
MCB GRB263	63	6	28.09
3-Pole 6kA Characteristic - B			
MCB GRB306	6	4	26.28
MCB GRB310	10	4	26.28
MCB GRB316	16	4	26.28
MCB GRB320	20	4	26.28
MCB GRB325	25	4	26.28
MCB GRB332	32	4	26.28
MCB GRB340	40	4	32.50
MCB GRB350	50	4	37.85
MCB GRB363	63	4	44.77



1-Pole MCB 6kA



3-Pole MCB 6kA

MINIATURE CIRCUIT BREAKER 6kA CHARACTERISTIC C

Item	Rated (A)	Packing Units	Trade Price
1-Pole 6kA Characteristic - C			
MCB GRC101	1	12	7.31
MCB GRC102	2	12	7.31
MCB GRC103	3	12	7.31
MCB GRC104	4	12	7.31
MCB GRC106	6	12	6.25
MCB GRC110	10	12	6.25
MCB GRC116	16	12	6.25
MCB GRC120	20	12	6.25
MCB GRC125	25	12	6.25
MCB GRC132	32	12	6.25
MCB GRC140	40	12	8.15
MCB GRC150	50	12	9.53
MCB GRC163	63	12	11.41
2-Pole 6kA Characteristic - C			
MCB GRC206	6	6	16.27
MCB GRC210	10	6	16.27
MCB GRC216	16	6	16.27
MCB GRC220	20	6	16.27
MCB GRC225	25	6	16.27
MCB GRC232	32	6	16.27
MCB GRC240	40	6	20.32
MCB GRC250	50	6	23.68
MCB GRC263	63	6	28.09
3-Pole 6kA Characteristic - C			
MCB GRC306	6	4	26.28
MCB GRC310	10	4	26.28
MCB GRC316	16	4	26.28
MCB GRC320	20	4	26.28
MCB GRC325	25	4	26.28
MCB GRC332	32	4	26.28
MCB GRC340	40	4	32.50
MCB GRC350	50	4	37.85
MCB GRC363	63	4	44.77



1-Pole MCB 6kA



3-Pole MCB 6kA

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC B

Item	Rated (A)	Packing Units	Trade Price
1-Pole 10kA Characteristic - B			
MCB GSB 106	6	12	7.38
MCB GSB 110	10	12	7.38
MCB GSB 113	13	12	7.38
MCB GSB 116	16	12	7.38
MCB GSB 120	20	12	7.38
MCB GSB 125	25	12	7.38
MCB GSB 132	32	12	7.38
MCB GSB 140	40	12	9.15
MCB GSB 150	50	12	18.32
MCB GSB 163	63	12	21.90
2-Pole 10kA Characteristic - B			
MCB GSB 206	6	6	17.73
MCB GSB 210	10	6	17.73
MCB GSB 213	13	6	17.73
MCB GSB 216	16	6	17.73
MCB GSB 220	20	6	17.73
MCB GSB 225	25	6	17.73
MCB GSB 232	32	6	17.73
MCB GSB 240	40	6	27.08
MCB GSB 250	50	6	38.05
MCB GSB 263	63	6	47.15
3-Pole 10kA Characteristic - B			
MCB GSB 306	6	4	36.32
MCB GSB 310	10	4	36.32
MCB GSB 313	13	4	36.32
MCB GSB 316	16	4	36.32
MCB GSB 320	20	4	36.32
MCB GSB 325	25	4	36.32
MCB GSB 332	32	4	36.32
MCB GSB 340	40	4	51.67
MCB GSB 350	50	4	64.10
MCB GSB 363	63	4	44.77



1-Pole MCB 10kA



2-Pole MCB 10kA



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC C

Item	Rated (A)	Packing Units	Trade Price
1-Pole 10kA Characteristic - C			
MCB GSC 1005	0,5	12	9.56
MCB GSC 101	1	12	9.56
MCB GSC 1016	1,6	12	9.56
MCB GSC 102	2	12	9.56
MCB GSC 104	4	12	9.56
MCB GSC 106	6	12	7.38
MCB GSC 110	10	12	7.38
MCB GSC 113	13	12	7.38
MCB GSC 116	16	12	7.38
MCB GSC 120	20	12	7.38
MCB GSC 125	25	12	7.38
MCB GSC 132	32	12	7.38
MCB GSC 140	40	12	9.15
MCB GSC 150	50	12	18.32
MCB GSC 163	63	12	21.90
2-Pole 10kA Characteristic - C			
MCB GSC 201	1	6	24.08
MCB GSC 2016	1,6	6	24.08
MCB GSC 202	2	6	24.08
MCB GSC 204	4	6	24.08
MCB GSC 206	6	6	17.73
MCB GSC 210	10	6	17.73
MCB GSC 213	13	6	17.73
MCB GSC 216	16	6	17.73
MCB GSC 220	20	6	17.73
MCB GSC 225	25	6	17.73
MCB GSC 232	32	6	17.73
MCB GSC 240	40	6	20.50
MCB GSC 250	50	6	38.05
MCB GSC 263	63	6	47.15
3-Pole 10kA Characteristic - C			
MCB GSC 3005	0,5	4	45.45
MCB GSC 301	1	4	45.45
MCB GSC 3016	1,6	4	45.45
MCB GSC 302	2	4	45.45
MCB GSC 304	4	4	45.45
MCB GSC 306	6	4	36.32
MCB GSC 310	10	4	36.32
MCB GSC 313	13	4	36.32
MCB GSC 316	16	4	36.32
MCB GSC 320	20	4	36.32
MCB GSC 325	25	4	36.32
MCB GSC 332	32	4	36.32
MCB GSC 340	40	4	51.67
MCB GSC 350	50	4	64.10
MCB GSC 363	63	4	77.38



1-Pole MCB 10kA



2-Pole MCB 10kA



3-Pole MCB 10kA

MINIATURE CIRCUIT BREAKER 10kA CHARACTERISTIC D

Item	Rated (A)	Packing Units	Trade Price
1-Pole 10kA Characteristic - D			
MCB GSD 1005	0,5	12	9.56
MCB GSD 101	1	12	9.56
MCB GSD 1016	1,6	12	9.56
MCB GSD 102	2	12	9.56
MCB GSD 104	4	12	9.56
MCB GSD 106	6	12	7.38
MCB GSD 110	10	12	7.38
MCB GSD 113	13	12	7.38
MCB GSD 116	16	12	7.38
MCB GSD 120	20	12	7.38
MCB GSD 125	25	12	7.38
MCB GSD 132	32	12	7.38
2-Pole 10kA Characteristic - D			
MCB GSD 206	6	6	17.73
MCB GSD 210	10	6	17.73
MCB GSD 213	13	6	17.73
MCB GSD 216	16	6	17.73
MCB GSD 220	20	6	17.73
MCB GSD 225	25	6	17.73
MCB GSD 232	32	6	17.73
3-Pole 10kA Characteristic - D			
MCB GSD 306	6	4	36.32
MCB GSD 310	10	4	36.32
MCB GSD 313	13	4	36.32
MCB GSD 316	16	4	36.32
MCB GSD 320	20	4	36.32
MCB GSD 325	25	4	36.32
MCB GSD 332	32	4	36.32



1-Pole MCB 10kA



2-Pole MCB 10kA



3-Pole MCB 10kA

LOCKING DEVICE

Locking device makes it possible to lock dolly in a specific position on the component. Suitable for the 6kA & 10kA range of components

Item	Description	Trade Price
MCB LOCK	Locking device suitable for most components in the 6kA & 10kA ranges.	10.34



MCB LOCK

AUXILIARY CONTACTS

For remote indication of the status of the respective device.

Item	Description	Modules	AC12	DC12	Trade Price
AUX10KA	Auxiliary Contact for 10kA breakers 1no + 1nc	0,5	230V-6A	220V-1A	9.58
MCB GR AUX	Auxiliary Contact for 6kA breakers 1no + 1nc	0,5	230V-6A	110V-1A	8.06



AUX10KA

MINIATURE CIRCUIT BREAKER 10kA 80 - 125A

Item	Rated (A)	Packaging Units	Modules	Trade Price
1-Pole 10kA C-Characteristic				
GCB C180	80	12	1.5	26.92
GCB C1100	100	12	1.5	30.50
GCB C1125	125	12	1.5	34.39
2 Pole 10kA C-Characteristic				
GCB C280	80	6	3	99.57
GCB C2100	100	6	3	94.64
GCB C2125	125	6	3	94.64
3 Pole 10kA C-Characteristic				
GCB C380	80	4	4.5	127.29
GCB C3100	100	4	4.5	142.73
GCB C3125	125	4	4.5	158.63



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
Rated Voltage	200-415V AC
Max Torque	3 Nm
Protection Class	IP20

10kA

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
2 Pole						
GCD 25-2-03	25	2	2	30	25	50.52
GCD 40-2-03	40	2	2	30	25	30.37
GCD 63-2-03	63	2	2	30	25	34.61
GCD 63-2-1	63	2	2	100	25	61.15
GCD 63-2-3	63	2	2	300	25	61.15
GCD 80-2-03	80	2	2	30	25	66.59
GCD 100-2-1	100	2	2	100	25	176.55
GCD 100-2-3	100	2	2	300	25	176.55

4 Pole						
GCD 25-4-03	25	4	4	30	25	54.27
GCD 40-4-03	40	4	4	30	25	54.27
GCD 63-4-03	63	4	4	30	25	69.94
GCD 80-4-03	80	4	4	30	25	91.79
GCD 100-4-03	100	4	4	30	25	216.99
GCD 40-4-3	40	4	4	300	25	55.18
GCD 63-4-3	63	4	4	300	25	75.11
GCD 63-4-5	63	4	4	500	25	75.11
GCD 80-4-3	80	4	4	300	25	99.50
GCD 100-4-1	100	4	4	100	25	188.81
GCD 100-4-3	100	4	4	300	25	176.55



GCD 25-2-03



GCD 63-4-5

S Type RCCB

Selective - minimum time delay 40ms.

Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
2 Pole						
GCD 63-2-1S	63	2	2	100		96.37
GCD 63-2-3S	63	2	2	300		96.37
Item	Rated (A)	Modules	Poles	mA	Max cable size mm ²	Trade Price
4 Pole						
GCD 63-4-1S	63	4	4	100		126.53
GCD 63-4-3S	63	4	4	300	25	126.53

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 RCBOs 6kA

Type	A
Rated Voltage	230V AC
Max Torque	3Nm
Protection Class	IP20

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Characteristic - B						
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						
RCBO GSB06	6	4	3P+N	30	1-25	114.65
RCBO GSB10	10	4	3P+N	30	1-25	114.65
RCBO GSB16	16	4	3P+N	30	1-25	114.65
RCBO GSB20	20	4	3P+N	30	1-25	114.65
RCBO GSB25	25	4	3P+N	30	1-25	114.65
RCBO GSB32	32	4	3P+N	30	1-25	114.65
2 Pole 6kA Characteristic - C						
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						
RCBO GSC06	6	4	3P+N	30	1-25	114.65
RCBO GSC10	10	4	3P+N	30	1-25	114.65
RCBO GSC16	16	4	3P+N	30	1-25	114.65
RCBO GSC20	20	4	3P+N	30	1-25	114.65
RCBO GSC25	25	4	3P+N	30	1-25	114.65
RCBO GSC32	32	4	3P+N	30	1-25	114.65



2 Pole RCBO 6kA



4 Pole RCBO 6kA

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 RCBOs 10kA

Type	A
Rated Voltage	230V AC
Max Torque	3Nm
Protection Class	IP20

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 10kA Characteristic - B						
RCBO GS B06A2P	6	2	2	30	1-25	39.77
RCBO GS B10A2P	10	2	2	30	1-25	39.77
RCBO GS B16A2P	16	2	2	30	1-25	39.77
RCBO GS B20A2P	20	2	2	30	1-25	39.77
RCBO GS B25A2P	25	2	2	30	1-25	39.77
RCBO GS B32A2P	32	2	2	30	1-25	39.77
RCBO GS B40A2P	40	2	2	30	1-25	39.77

2 Pole 10kA Characteristic - C						
RCBO GS C06A2P	6	2	2	30	1-25	39.77
RCBO GS C10A2P	10	2	2	30	1-25	39.77
RCBO GS C16A2P	16	2	2	30	1-25	39.77
RCBO GS C20A2P	20	2	2	30	1-25	39.77
RCBO GS C25A2P	25	2	2	30	1-25	39.77
RCBO GS C32A2P	32	2	2	30	1-25	39.77
RCBO GS C40A2P	40	2	2	30	1-25	39.77



2 Pole RCBO 10kA

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

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

Item	Rated (A)	Modules	Poles	mA	For cable size mm ²	Trade Price
2 Pole 6kA Characteristic - B						
RCBO GI B06	6	1	1 + N	30	1-6	31.37
RCBO GI B10	10	1	1 + N	30	1-6	31.37
RCBO GI B16	16	1	1 + N	30	1-6	31.37
RCBO GI B20	20	1	1 + N	30	1-6	31.37
RCBO GI B25	25	1	1 + N	30	1-6	31.37
2 Pole 6kA Characteristic - C						
RCBO GI C06	6	1	1 + N	30	1-6	31.37
RCBO GI C10	10	1	1 + N	30	1-6	31.37
RCBO GI C16	16	1	1 + N	30	1-6	31.37
RCBO GI C20	20	1	1 + N	30	1-6	31.37
RCBO GI C25	25	1	1 + N	30	1-6	31.37



1 Mod 2 Pole RCBO

Item	Description	Modular Length	For cable size mm ²	Trade Price
ACCESSORIES				
AS-35-SLISOSO	Terminal Connector		25	1.80
SKN0021-10	SP Busbar 10 mm ² to suit 1mod RCBO	12		13.31
SKN0029-10	TP Busbar 10 mm ² to suit 1mod RCBO	12		22.05

MODULAR ISOLATOR & CHANGEOVER SWITCHES

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

Item	Type	AC21- AC22 (A)	Modules	Poles	Operating Voltage V	For cable size mm ²	Trade Price
With dolly							
GSV 1100	Isolator	100	1	1	230	35	8.28
GSV 2100	Isolator	100	2	2	400	35	17.34
GSV 3100	Isolator	100	3	3	400	35	27.10
GSS 116 I-O-I 1 x c-o contact	H-O-A	16	1	1	230	1,5-6	15.50
GSS 216 I-O-I 2 x c-o contacts	H-O-A	16	1	2	400	1,5-6	21.56



GSV 2100

With toggle

Enclosure class IP20

HOA 1	H-O-A	10	2	1	440		25.22
HOA 2	H-O-A	10	2	2	440		30.14



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 standard

EN 60 947-3, EN 60 947-5-1 and DIN 43880 and DIN VDE 0710

Item	Description	Modules	Poles	Contact Function	Trade Price
GT 216	Pushbutton Red	1	2	1s+1ô 16A-230V	10.86
GLT-YELLOW	Cap for pushbutton				1.40
GLT-GREEN	Cap for pushbutton				1.40
GLT-BLUE	Cap for pushbutton				1.40
GLT-WHITE	Cap for pushbutton				1.40
GTL 216	Pushbutton with Lamp Red	1	2	1s+1ô 16A-230V	13.56
GL1-RED	Cap for signal lamp				1.40
GL1-YELLOW	Cap for signal lamp				1.40
GL1 GREEN	Cap for signal lamp				1.40
GL1-BLUE	Cap for signal lamp				1.40
GL1-WHITE	Cap for signal lamp				1.40



GTL 216



GT 216



GLT-YELLOW

DIGITAL TIMERS

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

ELECTRONIC TIME SWITCHES

Item	Modules	Channels	Relay Capacity	Trade Price
LOGIC 1M	1	1	250V AC - 16(10)A	59.99
LOGIC 4M	4	4	250V AC - 16(10)A	182.10
DV1	2	1	250V AC - 16(10)A	77.13
DV2	2	2	250V AC - 16(10)A	102.84



DV 1

Item	Modules	Channels	Relay Capacity	Program	Trade Price
ASTRO1	2	1	250V AC - 16(10)A	Programmable (dusk to dawn)	89.98
ASTRO2	2	2	250V AC - 16(10)A	Ch.1 programmable Ch.2 24Hr 7 Day	115.69



ASTRO 2



LOGIC 1M

MECHANICAL & ELECTROMECHANICAL TIMERS

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

ELECTROMECHANICAL TIME SWITCHES

Item	Modules	Relay Capacity	Quadrant Type	Intervention Time (min)	Intervention Precision	Trade Price
ELO-D	1	250V AC - 16(4)A	24 hours - 96 trips x 15 mins	15 mins	+/- 5 mins	40.71
DUET-D	2	250V AC - 16(4)A	24 hours - 48 trips x 30 mins	30 mins	+/- 7.5 mins	49.28
DUET-W	2	250V AC - 16(4)A	168 hours - 48 trips x 3.5 hrs	3.5 hours	+/- 52.5 mins	75.87



ELO-D



DUET-W

MECHANICAL TIME SWITCH

Item	Modules	Relay Capacity	Daily Quadrant	Weekly Quadrant	Operating Precision	Trade Price
AIKO-DW	5	250V AC - 16(3)A	96 trips	84 trips	+/- 1s a day (not cumulative)	139.26



AIKO-DW

DIRECT ENERGY METERS

Din rail mounted energy meters with pulse outputs.
GM1D measures KWH
GM3D measures KWH, KW, V and A.

Item	Description	Modules	Rated Current	Trade Price
GM1D	Energy Meter - Single Phase	1	32A	76.49
GM3D	Energy Meter - Three Phase	3	63A	179.88
GM3T-RS485	Energy Meter - Three Phase	3	CT (6000A)	318.71



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	27.37
VN 31 5800	Continuous service transformer	2	10 VA	230V - 12-24V AC	27.37
VN 31 6600	Continuous service transformer	2	15 VA	230V - 4-8-12V AC	33.52
VN 31 7400	Continuous service transformer	2	15 VA	230V - 12-24V AC	33.52



VN 31 4100

CONTACTORS

Modular contactors for din rail mounting.

Item	Contacts	Poles	Modules	Coil			Trade Price
				Rated AC-1[A]	Voltage (V)	Type	
GK20-1NO1NC	1 NO + 1 NC	2	1	20	230	AC	17.68
GK20-2NO	2 NO	2	1	20	230	AC	24.82
GK20-2NC	2 NC	2	1	20	230	AC	28.91
GK24-4NO	4 NO	4	2	25	230	AC-DC	29.79
GK24-4NC	4 NC	4	2	25	230	AC-DC	33.96
GK40-4NO	4 NO	4	3	40	230	AC-DC	71.13
GK40-2NO2NC	2 NO + 2 NC	4	3	40	230	AC-DC	96.10
GK63-4NO	4 NO	4	3	63	230	AC-DC	93.59



GK40 - 2NO 2NC

ACCESSORIES

Distance piece, for contactors. Weight 12g. For use where temperatures > 40 ° C.
Auxiliary Contacts for contactors.

Item	Description	Modules	Trade Price
GKD	Distance Piece	0,5	3.34
GKN 11	Auxiliary Contacts		16.54



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	278.51
DC SPD40	2	11	yes	10KA per pole	40KA per pole	60V DC	197.10

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

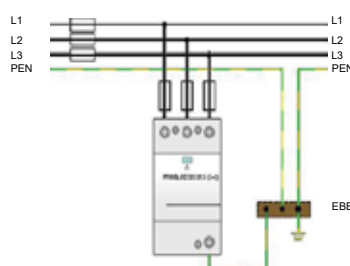


DC SPD 10

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	461.07
BSR 275 4pol	4	1, 11, 111	yes	25KA per pole	100KA per pole	250A gl	610.80
GBR 275 3pol	3	1, 11	yes	25KA per pole	100KA per pole	160A gl	288.40
GBR 275 4pol	4	1, 11	yes	25KA per pole	100KA per pole	160A gl	374.92

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



BSR 275 3pol

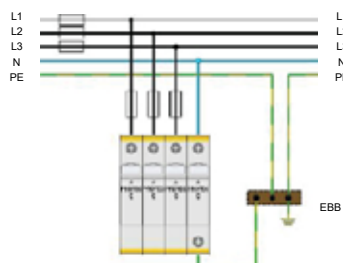


GBR 275 4pol

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	37.51
GPTR 275 1pol	1	11	yes	5KA per pole	40KA per pole	125A	51.06
GPT 275 2pol	2	11	no	5KA per pole	40KA per pole	125A	76.12
GPTR 275 2pol	2	11	yes	5KA per pole	40KA per pole	125A	89.88
GPT 275 3pol	3	11	no	5KA per pole	40KA per pole	125A	112.32
GPTR 275 3pol	3	11	yes	5KA per pole	40KA per pole	125A	137.39
GPT 275 4pol	4	11	no	5KA per pole	40KA per pole	125A	151.51
GPTR 275 4pol	4	11	yes	5KA per pole	40KA per pole	125A	178.25
GPT 275 plug	1	11	yes	5KA per pole	40KA per pole	125A	33.42
LX3375	3	11	no	5KA per pole	40KA per pole	N-A	202.40

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



GPT 275 4pol

SURGE PROTECTION DEVICES

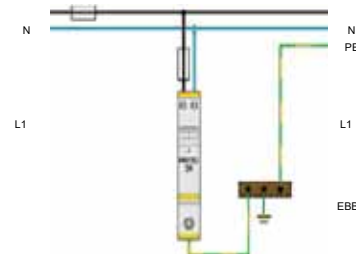
Item	Poles	Class	Signal Relay	Impulse Current (10-350)uS	Max Current (8-20)uS	Back up Fuse Maximum	Trade Price
PDM 320	1	111	no	n-a	10KA per pole	63A	76.90
PDMR 320	1	111	yes	n-a	10KA per pole	63A	90.21
PDM 320plug	1	111	yes	n-a	10KA per pole	63A	69.40
GTS 170	1	111	yes	n-a	20KA per pole	63A	98.52
GTS 170plug	1	111	yes	n-a	20KA per pole	63A	81.69



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

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	12.06
STVDO 22P	2	63	3	33.40
STVDO 23P	3	63	4.5	46.79

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



STVDO 22P

TEST RELAYS & TIME LAG SWITCHES

Item	Description	Contact	Trade Price
CTU	Emergency Light Test Relay - surface mounting	1 x c-o	139.03
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	83.16
3875A	Electronic Time Lag Switch 16A - Push Button	1 x c-o	93.83
COLUMBUS	Pneumatic Time Delay Switch - 6A, 5 secs - 20 mins	1 x c-o	42.35



DCTU



Columbus



2235a

ACCESSORIES
Terminals and Connectors

Item	Description	Trade Price
AS25-SN	Cable Connector Pin to suit 25 mm ² cable	1.70
AS25-GN	Cable Connector Fork to suit 25 mm ² cable	1.70
ASF35-SN	Cable Connector Pin to suit 35 mm ² cable	1.91
AS-35-SLISOSO	Cable Connector Pin to suit 35 mm ² cable. 27mm PITCH	1.80
AS-35-SLSOISO	Cable Connector Pin to suit 35 mm ² cable. 23mm PITCH	1.96
AS50-SL	Cable Connector Pin to suit 50 mm ² cable. 40mm PITCH	3.59
AS50-SN	Cable Connector Pin to suit 50 mm ² cable. 15mm PITCH	3.01
E7	Earth Terminal Block 7 Way 16 mm ² clips on to DIN rail	1.99
N7	Neutral Terminal Block 7 Way 16 mm ² clips on to DIN rail	1.99
BRASS 9	9 Way Brass Terminal for Garo Consumer Units	1.89
BRASS 18	18 Way Brass Terminal for Garo Consumer Units	4.98
BRASS 3LA	18 Way Brass Terminal for LA Consumer Units	17.77
BRASSBAR	Brass Terminal 6.5 x 9 x 288mm	6.90
BRASSBAR1M	N-E Terminal Block 153 way (1 metre)	18.32
KKS1-2	Supports for N-E Terminal Block (1 metre)	1.00
NPE35	Earth - Neutral Terminal 160A to suit 35 mm ² cable	11.21
NPE120	Earth - Neutral Terminal 250A to suit 120 mm ² cable	36.00
TBN185	Earth - Neutral Terminal 400A to suit 185 mm ² cable	50.93
DISCT6US	Disconnect Test Terminal	4.56
EPDISCT6U	End Plate for Disconnect Terminal	0.40
RPQ 1000	125A 4 Pole short busbar block	11.84
RPQ 1005	125A 4 Pole long busbar Block	16.13
RPQ 1010	100A 4 Pole longest Busbar Block	21.12
RPQ 1015	160A 4 Pole standard Busbar Block	46.48
RPQ 1016	160A 4 Pole modular Busbar Block with Top & Bottom entry	49.17
RPQ 1017	160A 4 Pole modular Busbar Block	49.17
RPQ 1020	100A 4 Pole shallow Busbar Block	66.36
RPQ 1025	100A 4 Pole Busbar Block	26.34



AS-35-SLISOSO



N7



AS25-GN



AS50-SL



AS25-SN



E7



ASF35-SN



RPQ1000



RPQ1025

Blanking Strip

Covers the empty spaces in the front cover of distribution enclosures. Made of plastic which can easily be cut into the desired size.

Item	Description	Trade Price
TC-1A	4.5 modules	0.92
ZA2W	57 modules (1 metre)	5.39


BLANKING STRIP

BUSBAR

BUSBAR for components

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	12.19
S-2L-1000-10	10 mm ² 2-phase, 57 mod	63	100	21.76
S-3L-1000-10	10 mm ² 3-phase, 57 mod	63	100	24.55
S-3L-1000-16	16 mm ² 3-phase, 57 mod	80	130	37.38
S-4L-1000-16	16 mm ² for 4 Pole RCCB	80	130	53.34
S-1L-27-1000	16 mm ² 1-phase	80	130	36.43
S-3L-27-1000	16 mm ² 3-phase, for do - neoz fuse holders	80	130	46.08
S-1L-1000-10	10 mm ² 1-phase, 57 mod** ** uninsulated	63	100	7.87
S-1L-145-10-ISO	10 mm ² 1-phase, 8 mod	63	100	1.51
S-1L-210-10-ISO	10 mm ² 1-phase, 12 mod	63	100	3.00



Fork type busbar with insulation

Item	Description	Current capacity with end input (A)	Current capacity with central input (A)	Trade Price
G-1L-1000-10ISO	10 mm ² 1-phase, 57 mod	63	100	11.43
G-2L-1000-10M5	10 mm ² 2-phase, 57 mod	63	100	21.65
G-3L-1000-10CM5	10 mm ² 3-phase, 57 mod	63	100	24.10
G-L1-N-L2-N-L	16 mm ² 3-phase+N, 57 mod	80	130	60.42



Busbar for surge protection device

Item	Description	Current capacity with end input (A)	Current capacity with central input (A)	Trade Price
G 16 L3	3 Pole linking busbar GS100SG	-	-	4.37



SHOWER RELAY + TIMER

Item	Description	Rated(A)	Voltage	Trade Price
BZ 601000	Load drop relay 6,7	39A	230 Volt	44.19
SR 1000	Shower Timer 5, 7, 10	Set for 5, 7 or 10 minute shower		66.56



BELL TRANSFORMER - BELL - CHIME

Standard apparatus typically suited to GARO's domestic consumer units. Enclosure class IP20.

Item	Description	Modules	Rated Current	Trade Price
TRAN 8-12-24	Bell transformer	2	230-8V, 12V, 24V 1A	14.32
PB-04	Bell Push - white			4.84
PB-04B	Bell Push - black			4.84
ST3238	Door Chime (Double Sound)			12.25



TRAN8-12-24

STAIRCASE TIMERS

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

Item	Description	Modules	Max	Rated current	Trade Price
LSM-01	45 secs - 7 mins	1	3000W-230V	4A-16A-230V	25.93



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	41.07


THERMOSTATS

Mechanical thermostats for wall mounting.

Item	Description	Colour	Trade Price
VE 018800	Ambient Thermostat with winter function	White	13.93
VE 019600	Ambient Thermostat with summer-winter function	White	15.85
VE 020400	Ambient Thermostat with summer-winter function & led function	White	20.57
VE 025300	Contact Thermostat for pipes	White	32.48


CHRONOTHERMOSTATS

New and essential design together with compact structure are the features of MITHOS. Weekly programming has 3 values of temperature regulation, adjustable for each hour during the day. Large digital display makes easy the reading of the registered values.

Item	Description	Colour	Power Supply	Trade Price
VE 312500	Mithos wall-mounting weekly programmable thermostat	Black	Battery (AA)	101.31
VE 328100	Mithos wall-mounting weekly programmable thermostat	White	Battery (AA)	101.31
VE 384400	Mithos GSM wall-mounting programmable weekly thermostat	Black	230V AC	371.73
VE 385100	Mithos GSM wall-mounting programmable weekly thermostat	White	230V AC	371.73
VE 426300	Mithos Radiofrequency weekly programmable thermostat	Black	Battery (AA)	194.96
VE 428900	Mithos Radiofrequency weekly programmable thermostat	White	Battery (AA)	194.96



ELECTRONIC CONTROL RELAYS

Control relays for din rail mounting.

LIQUID CONTROL RELAY

- Possibility of use in filling or emptying mode
- Permit to maintain the level of liquid within the set limits between a minimum and a maximum level
- Possibility of use as maximum or minimum alarm threshold

Item	Description	Width din mods	Power supply	Output	Trade Price
VP 810600	Electr. conductive liquid level relay	4	24-48V AC 50-60Hz	1 relay 8A - 250V AC	80.98
VP 809800	Electr. conductive liquid level relay	4	115-230V AC 50-60Hz	1 relay 8A - 250V AC	80.98

* The electrodes must be ordered separately



VP 810600

ACCESSORIES FOR LIQUID CONTROL RELAY

Item	Description	Trade Price
VR 448300	Dip electrode	12.85
VR 449100	Dip electrode with ballast	16.07
VR 450900	Electrode for tanks with threaded connection	32.14

MOTOR CONTROL RELAY

Item	Description	Width din mods	Power supply	Output	Trade Price
VP 813000	Motor alteration control relay	4	24-48V AC 50-60Hz	2 relays 8A-250V AC	82.88



VP 813000

GSM CONTROL RELAY

Item	Description	Power supply	Output	Trade Price
VE 245700	GSM Interface	230V AC 50-60 Hz	1 relay 8A-250V AC	385.63
VE 293700	GSM Interface with buffer battery	12 + 24V AC-DC	1 relay 8A-250V AC	416.51
VE 285300	GSM Interface with buffer battery 2 digital inputs + 1 analogue output	12 + 24V AC-DC	2 relays 8A-250V AC	490.71
VE 269700	GSM Antenna - 3 mtr cable			38.56



VE 285300

PULSE COUNTERS

Item	Description	Power supply	Trade Price
VE 165700	Pulse counter 48 x 24 mm	24V AC	19.88
VE 166500	Pulse counter 48 x 24 mm	230V AC	23.91



VE 166500

PANEL MOUNTING AC HOURS METERS

Item	Description	Power supply	Trade Price
VP 759500	Hour meter 55 x 55 mm	24V - 50 Hz	23.91
VE 155800	Hour meter 58mm diameter	24V - 50 Hz	23.91



VE 155800

CONSUMER UNITS

Exclusive design for surface mounting. The housing is manufactured in white plastic (colour RAL 9010) and is always supplied with the door. Door is factory mounted with left hanging, but can easily be reversed for right-hanging. The unit is always supplied with the earth and neutral blocks and the standard version has 13 modules per row. With a very simple breakout each row can be expanded to 14 modules.

Back cover, is designed with a number of knockouts, which correspond to most demands and needs. The product meets the requirements of IP41 and is designed for touch protection equivalent to IP20, using terminal hood, according to EN 60 529.

Ingeniously designed to facilitate the installation and to create an almost unlimited working space. With simple snap fasteners the chassis is held in place throughout normal use, but during installation or adjustment, it can all be folded down 90 °, which means that you get a good overview and a very comfortable work space for wiring and laying of cables. This function is, in addition to the above benefits, a great help for the final assembly of the outgoing cables. Plastic material is Halogen free.

G type 2 row consumer unit

CONSUMER UNITS IP41 WITH MAIN 10kA MCB

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
Standard Distribution Boards c-w Type B Incomer							
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
ETCI Regulation Consumer Unit c-w Type B Incomer							
G 26 - ETCI	G2-26	63A MCB	Yes	8	10A + 16A		167.20


G26 Type 2 Row
SHOWER BOARDS

Item	Enclosure	Incoming	RCCB	MCB	RCBO	CONTROLS	Trade Price
Shower Boards - Priority & Non-Priority			Description		RELAYS	CONTACTOR	
CV8-PS	CV8PO-RR	40A RCBO	PRIORITY		1	1	151.42
CV12-NPS	CV12PO-RR	40A RCBO	NON PRIORITY		2	2	227.14
G26-3NPS	G2-26	40A RCBO	NON PRIORITY		3	3	336.96
Distribution Boards with Main Isolator - Non-Priority Shower ready							
GI 26-NPS	G2-26	Isolator	1	8	1	2 Showers	307.84
GI 39-NPS	G3-39	Isolator	1	8	1	3 Showers	522.08


CV12-NPS
Item Symbols:

PS = Priority Shower
NPS = Non Priority Shower

DOMESTIC CONSUMER UNITS



CONSUMER UNITS IP41 WITH MAIN 10kA MCB

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
Standard Distribution Boards c-w Bell Transformer							
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							
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
H = Heating

CONSUMER UNITS IP41 WITH MAIN ISOLATOR

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
Standard Distribution Boards							
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
Standard Distribution Boards c-w Bell Transformer							
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



G13 Type 1 Row

Item Symbols:

T = Bell Traffo
B = Bathroom
S = Shower

CONSUMER UNIT & OVERCURRENT DEVICE KIT

Item	Enclosure Size	Rating (A)	kA	Overcurrent Device		Consumer Unit		Trade Price
				Type		MCB	RCCB	
GI 26-7B KIT	G 2-26	63	6-10	B		7	1	140.00
	+ CT3G							
GI 26-7C KIT	G 2-26	63	6-10	C		7	1	140.00
	+ CT3G							
GI 39-7B KIT	G 3-39	63		B		7	1	153.23
	+CT3G							



+



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.

CONSUMER UNITS IP55

Item	Enclosure	Incoming	RCCB	MCB	RCBO	BELL TRAFFO	Trade Price
Standard Distribution Boards							
AGRI 6	GCUT6	63A MCB	Yes	2	-	-	89.99
AGRI 9	GCUT8	63A MCB	Yes	4	-	-	107.98
AGRI 13-7	GCUT112	63A MCB	Yes	7	-	-	116.99
AGRI 26-7	GCUT224	63A MCB	Yes	7	-	-	130.49
AGRI 39-7	GCUT336	63A MCB	Yes	7	-	-	148.19



AGRI 6

FLUSH CONSUMER UNITS

Item	Enclosure*	Incoming	RCCB	MCB	RCBO	Traffo	Trade Price
Flush Distribution Boards							
K12-7	K1-12	63A MCB	Yes	7	-	-	112.32
K24-7	K2-24	63A MCB	Yes	7	-	-	135.20
K36-7	K3-36	63A MCB	Yes	7	-	-	176.80
K112-7	K1-12	Isolator	Yes	7	-	-	116.81
K124-7	K2-24	Isolator	Yes	7	-	-	134.12
K136-7	K3-36	Isolator	Yes	7	-	-	177.38



K12-7

Enclosure*	Internal "cut-out" Dimensions			External Dimensions	
	Width mm	Height mm	Depth mm	Width mm	Height mm
K1-12	323	355	88	359	393
K2-24	323	480	88	359	518
K3-36	323	605	88	359	643

MAIN OVERCURRENT DEVICE IP55

Item	Enclosure	Rating (A)	kA	Type	IP Rating	Poles	Trade Price
Main Overcurrent Device - Single Phase							
G4-63B	CT3G	63	10	B	55	1	28.12
G4-63C	CT3G	63	10	C	55	1	28.12
G4-80B	CT3G	80	10	B	55	1	43.26
G4-80C	CT3G	80	10	C	55	1	43.26
G4-100B	CT3G	100	10	B	55	1	48.67
G4-100C	CT3G	100	10	C	55	1	48.67



G4-63B

CONSUMER UNIT HEADER BOX

Item	Description	Trade Price
HEADER BOX - Facilitates "Maximum Height" requirements for Domestic Consumer Units when fitted over G--Type boards.		
G13-TOP	G-Top Header Box	27.04



G13-TOP

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.

Item	Height mm	Width mm	Depth mm	Trade Price
Metal Cabinets * All cabinets c-w mounting plate				
GN302015	300	200	150	61.33
GN302515	300	250	150	62.65
GN303015	300	300	150	65.61
GN403015	400	300	150	80.40
GN403020	400	300	200	86.36
GN404020	400	400	200	99.42
GN504020	500	400	200	109.55
GN504025	500	400	250	115.99
GN604020	600	400	200	114.21
GN604025	600	400	250	129.16
GN604030	600	400	300	141.97
GN606025	600	600	250	175.74
GN606030	600	600	300	197.68
GN705020	700	500	200	173.85
GN806020	800	600	200	205.14
GN806025	800	600	250	211.35
GN806030	800	600	300	237.92
GN808030	800	800	300	300.08
GN1006025	1000	600	250	288.93
GN1008030	1000	800	300	339.59
GN1206030	1200	600	300	410.84
GN12010030	1200	1000	300	426.88



** Other cabinet sizes available upon request

Item			For use with Cabinet	Trade Price
Metal Cabinet Accessories			Type	
CH3025	Din Rail & Cover	2 Row x 8 Mod	GN302515	68.45
CH4030	Din Rail & Cover	3 Row x 11 Mod	GN403015-20	70.87
CH5040	Din Rail & Cover	3 Row x 16 Mod	GN504015-20	77.34
CH6040	Din Rail & Cover	4 Row x 16 Mod	GN604020	82.01
CH8060	Din Rail & Cover	4 Row x 26 Mod 1 Row x 24 Mod	GN806020	86.37
SP250	Chassis fixing for 250mm box		250mm depth	29.05
SP300	Chassis fixing for 300mm box		300mm depth	30.87
GN48451	7mm Triangular Lock		ALL	23.00
GN48456	Quarter Turning Lock with Key		ALL	11.55
GN48457	Quarter Turn Key Lock		ALL	23.00
GNKEY	7mm Plastic Key		ALL	1.10
ARGENTA-WB	Wall bracket			4.52



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

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
Enclosures IP66					
POL302514	66	300	250	140	94.44
POL403020	66	400	300	200	123.16
POL404020	66	400	400	200	139.03
POL504020	66	500	400	200	173.44
POL604023	66	600	400	230	197.43
POL605023	66	600	500	230	216.33
POL806030	66	800	600	300	355.52



Item	Cabinet Reference	Modules	Rows	Trade Price
Modular Chassis				
PCH4030	POL403020	24	2	71.02
PCH4040	POL404020	36	2	73.22
PCH5040	POL504020	54	3	91.72
PCH6040	POL604023	54	3	105.26
PCH6050	POL605023	69	3	127.42
PCH8060	POL806030	116	4	153.36



Chassis 2 row 36 mod

Accessories				Trade Price
POL29222	4 x polyester wall brackets			15.39
POL29240	4 x zinc steel wall brackets			15.39
GN48451	7mm Triangular Lock			23.00
GN48457	Quarter Turn Key Lock			23.00
GNKEY	7mm Plastic Key			1.10

Metal

Item	Trade Price
PML3025	4.54
PML4030	6.49
PML4040	8.72
PML5040	13.63
PML6040	13.76
PML6050	33.68
PML8060	37.55

BACKPLATES

Cabinet Reference	Height mm	Width mm	Depth mm
POL302514	268	213	4
POL403020	358	260	4
POL404020	358	360	4
POL504020	458	360	4
POL604023	558	360	4
POL605023	558	460	4
POL806030	754	556	4

Polyester

Item	Trade Price
PPL3025	9.17
PPL4030	13.04
PPL4040	16.68
PPL5040	23.26
PPL6040	28.35
PPL6050	33.36
PPL8060	51.49

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

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
Enclosures IP55					
POL1007530	55	1000	750	300	827.50
POL1007542	55	1000	750	420	910.26

Item	Cabinet Reference	Height mm	Width mm	Depth mm	Trade Price
Backplates					
PPL1007530	POL1007530	950	700	4	119.64
PPL1007542	POL1007542	950	700	4	119.64

Steel Pedestals					
ZOC1007530	POL1007530	50	750	300	143.52
ZOC1007542	POL1007542	50	750	420	190.86



Enclosure



Back Plate

JUNCTION BOXES IP67

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
Junction Boxes with plain sides					
EL111	67	108	108	64	2.87
EL161	67	116	162	76	4.59
EL171	67	151	175	95	7.35
EL231	67	180	241	95	9.85
EL322	67	239	328	129	25.19



Junction Box plain sides

Item	IP Rating	Height mm	Width mm	Depth mm	Trade Price
Junction Boxes with pre-moulded cable entries					
EX111	67	119	119	64	2.87
EX161	67	130	176	76	4.59
EX171	67	165	189	95	7.35
EX231	67	194	255	95	9.85
EX322	67	253	342	129	25.19



Junction Box with pre-moulded cable entries

CABLE GLANDS

Item	Size mm	Colour	Trade Price
Cable Glands c-w Lock Nuts			
ESM16-11G-LN	M16	Grey	0.70
ESM16-11W-LN	M16	White	0.63
ESM20-12B-LN	M20	Black	0.63
ESM20-12G-LN	M20	Grey	0.63
ESM20-12R-LN	M20	Red	0.63
ESM20-12W-LN	M20	White	0.63



Item	Size mm	Colour	Trade Price
Cable Glands c-w Lock Nuts			
ESM25-14B-LN	M25	Black	1.07
ESM25-14G-LN	M25	Grey	1.07
ESM25-14W-LN	M25	White	1.07
ESM32-15G-LN	M32	Grey	2.07
ESM32-15W-LN	M32	White	2.07

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 adapted to the metric system.

Item	Description	IP Rating	Width mm	Height mm	Depth mm	Trade Price
BT2 - GO	1 x 2 Mod Enclosure	20	53	133	80	2.29
BT4 - GO	1 x 4 Mod Enclosure	20	100	133	85	3.58
BV4PTRR - GO	1 x 4 Mod Enclosure	40	180	228	120	15.35
BV8PTRR - GO	1 x 8 Mod Enclosure	40	105	228	191	20.58
CT 3G	1 x 3 Mod Enclosure	65	84	174	111	17.08
CT 4G	1 x 4 Mod Enclosure	55	135	174	101	17.23
GCUT 4	1 x 4 Modules DIN Rails	65	166	231	113	23.36
GCUT 6	1 x 6 Modules DIN Rails	65	202	231	113	26.27
GCUT 8	1 x 8 Modules DIN Rails	65	238	231	118	30.05
GCUT 112	1 x 12 Modules DIN Rails	65	310	246	148	36.28
GCUT 118	1 x 18 Modules DIN Rails	65	418	246	148	57.06
GCUT 224	2 x 12 (24) Modules DIN Rails	65	310	436	148	60.58
GCUT 236	2 x 18 (36) Modules DIN Rails	65	418	436	148	81.37
GCUT 336	3 x 12 (36) Modules DIN Rails	65	310	586	148	83.67
GCUT 354	3 X 18 (54) Modules DIN Rails	65	418	586	148	117.45
BD 57PT-RR	3 x 19 Mod Distribution Board	55	401	550	146	134.33
** Din rails can be mounted at two different heights						
GCUT N - E	N + E Bar for GCUT 112 - GCUT 354					16.17



BT2 - GO



BT4 - 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	30.63
CS6 PT-RR	6	171	400	110	39.25
CS9 PT-RR	9	219	399	110	44.82
CS12 PT-RR	12	310	436	148	56.36
CS18 PT-RR	18	418	436	148	73.46
CS26 PT-RR *	26	290	550	148	89.50

* 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	15.70
9006 506	6	128	51	108		127	16.24
9006 509	9	182	78	162		166	21.19
9006 514	13	253	41	73	233	223	25.43
9006 518	18	344	105	324		299	30.02

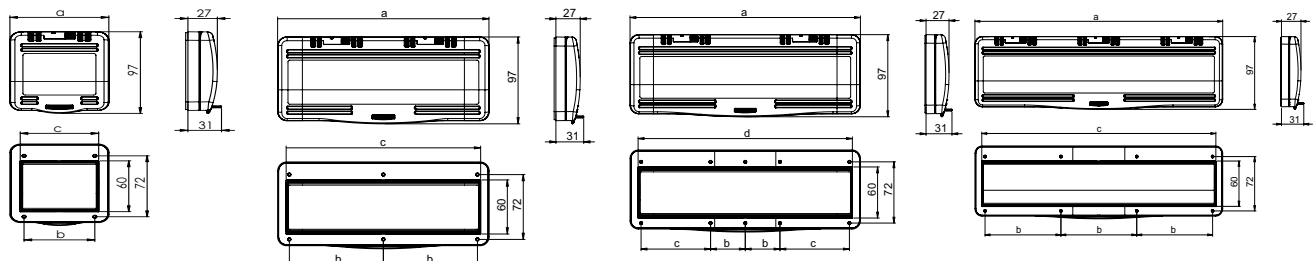


4 Mod window

6 & 9 Mod windows

13 Mod window

18 Mod window



DISTRIBUTION ENCLOSURES IP 40 - IP41

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
GM Metal Enclosures							
GM 1-6	40	6	1	320	250	95	25.96
GM 1-14	40	14	1	335	300	111	94.89
GM 1-25	40	25	1	515	300	111	128.47
GM 2-28	40	28	2	335	425	111	121.17
GM 2-50	40	50	2	515	425	111	189.80
GM 3-42	40	42	3	335	550	111	141.63
GM 3-75	40	75	3	515	550	111	237.97

GM KEYLOCK	Lock and key set for GM boards (except GM 1-6)						21.26
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Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
MSI Metal Enclosures							
MSI 36-1C	40	36	3	315	530	145	227.76
MSI 48-1C	40	48	4	315	680	145	255.51
MSI 90-2C	40	90	3	610	530	145	313.89
MSI 120-2C	40	120	4	610	680	145	373.76

MSSKL	Lock and key set for MSI cabinets						30.93
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Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
Plastic Enclosures - surface mounting							
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	18.48
BV12PO-GO	40	12	1	264	228	99	23.07
BV24PO-GO	40	24	2	264	353	99	39.84

Item	IP Rating	Modules	Rows	Width mm	Height mm	Depth mm	Trade Price
Plastic Enclosures c-w metal door - flush mounting							
SIL 12 PO	41	12	1	368	343	93	55.76
SIL 24 PO	41	24	2	368	443	93	62.67
SIL 36 PO	41	36	3	368	568	93	88.70
SIL 48 PO	41	48	4	368	753	93	131.04

Enclosure*	Internal "cut-out" Dimensions		
Dimensions	Width mm	Height mm	Depth mm
SIL 12 PO	314	314	88
SIL 24 PO	314	414	88
SIL 36 PO	314	539	88
SIL 48 PO	314	724	88



GM1-14



MSI 48-1C



G2-26



BV12PO-GO



SIL 24 PO

SAFETY SWITCHES ENCLOSED - AC & SOLAR DC - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Polycarbonate Safety Switches - Grey Body - Red Yellow Handle - 3 Pole							
SS 320 IP65	20	3	65	100	125	72	20.96
SS 325 IP65	25	3	65	100	125	72	22.52
SS 332 IP65	32	3	65	100	125	72	24.71
SS 340 IP65	40	3	65	125	175	90	28.58
SS 363 IP65	63	3	65	125	175	90	29.48
SS 380 IP65	80	3	65	190	280	130	62.16
SS 3100 IP65	100	3	65	190	280	130	77.47
SS 3125 IP65	125	3	65	190	280	130	88.59



SS 320 IP65

Polycarbonate Safety Switches - Grey Body - Red Yellow Handle - 4 Pole							
SS 420 IP65	20	4	65	100	125	72	24.12
SS 425 IP65	25	4	65	100	125	72	25.21
SS 432 IP65	32	4	65	100	125	72	26.23
SS 440 IP65	40	4	65	125	175	90	31.98
SS 463 IP65	63	4	65	125	175	90	33.63
SS 480 IP65	80	4	65	190	280	130	66.74
SS 4100 IP65	100	4	65	190	280	130	80.89
SS 4125 IP65	125	4	65	190	280	130	93.86



SS 440 IP65

SIRCO M Polycarbonate Safety Switches - Grey - Black							
2215 3301	20	3	65	99	162	92	29.94
2215 3302	25	3	65	99	162	92	30.30
2215 3303	32	3	65	99	162	92	37.77
2215 3304	40	3	65	99	162	92	59.25
2215 3306	63	3	65	125	210	92	69.09
2215 3308	80	3	65	125	210	92	106.84
2215 3309	100	3	65	125	210	92	109.04



SS 4100 IP65

SIRCO M Polycarbonate Safety Switches - Red - Yellow							
2215 3401	20	3	65	99	162	92	29.94
2215 3402	25	3	65	99	162	92	30.30
2215 3403	32	3	65	99	162	92	37.77
2215 3404	40	3	65	99	162	92	59.25
2215 3406	63	3	65	125	210	92	69.09
2215 3408	80	3	65	125	210	92	106.84
2215 3409	100	3	65	125	210	92	109.04



2215 3306

Safety Switches - AUX Modules		Trade Price
RAC20	20A AUX Module	2.72
RAC25	25A AUX Module	2.72
RAC32	32A AUX Module	2.72

Safety Switches - AUX Modules		Trade Price
RAC40	40A AUX Module	2.72
RAC63	63A AUX Module	2.72
RAC80	80A AUX Module	6.81

Item	Rating (A)	Poles	IP Rating	Trade Price
SOLAR DC Isolators				
SS 416 IP65 DC	16	2	65	22.81
SS 432 IP65 DC	32	4	65	35.12



SS 416 IP65 DC

ISOLATOR SWITCHES ENCLOSED IP53 - IP55 - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Isolator Switches - IP53							
SW 20 IP53M	20	3	53	110	147	70	23.35
SW 32 IP53M	32	3	53	135	220	85	37.85
SW 40 IP53M	40	3	53	135	220	85	39.43
SW 63 IP53M	63	3	53	135	220	85	40.41
SW 80 IP53M	80	3	53	245	315	125	82.18
SW 100 IP53M	100	3	53	245	315	125	88.66
SW 125 IP53M	125	3	53	245	315	125	96.11



SW 20 IP53M

Polyester Isolator Switches - IP65							
SW 63 IP65P	63	3	65	250	300	140	314.53
SW 125 IP65P	125	3	65	300	400	200	458.23
SW 160 IP65P	160	3	65	300	400	200	520.04
SW 200 IP65P	200	3	65	400	400	200	548.84
SW 250 IP65P	250	3	65	400	400	200	579.69
SW 400 IP65P	400	3	65	400	500	200	704.22
SW 500 IP65P	500	3	65	400	500	200	794.24
SW 630 IP65P	630	3	65	400	600	230	904.19



SW 320 IP55M

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Isolator Switches 3 Pole - IP55								
SW320 IP55M	20	3	1	55	180	215	135	127.62
SW340 IP55M	40	3	1	55	180	215	135	134.31
SW363 IP55M	63	3	1	55	180	215	135	146.12
SW380 IP55M	80	3	1	55	180	215	135	151.84
SW3100 IP55M	100	3	1	55	180	215	135	162.56
SW3125 IP55M	125	3	2	55	270	300	150	270.86
SW3160 IP55M	160	3	2	55	270	300	150	280.25
SW3200 IP55M	200	3	2	55	320	395	175	304.77
SW3250 IP55M	250	3	3	55	320	395	175	426.80
SW3315 IP55M	315	3	4	55	450	600	275	635.14
SW3400 IP55M	400	3	4	55	400	600	250	627.33
SW3630 IP55M	630	3	4	55	400	600	250	854.44



SW 3100 IP55M

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Isolator Spreader-Header Box - IP55								
SGBOX 3	250	3 & 4	3	55	275	320	175	142.39
SGBOX 4	315-630	3 & 4	4	55	275	450	275	229.48



SGBOX 3

ENCLOSED SWITCHGEAR



ISOLATOR SWITCHES ENCLOSED IP55

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Isolator Switches 4 Pole - IP55								
SW420 IP55M	20	4	1	55	180	215	135	127.88
SW440 IP55M	40	4	1	55	180	215	135	134.53
SW463 IP55M	63	4	1	55	180	215	135	147.97
SW480 IP55M	80	4	1	55	180	215	135	153.69
SW4100 IP55M	100	4	1	55	180	215	135	164.42
SW4125 IP55M	125	4	2	55	320	300	150	277.50
SW4160 IP55M	160	4	2	55	320	300	150	295.57
SW4200 IP55M	200	4	2	55	320	300	150	361.99
SW4250 IP55M	250	4	3	55	320	395	175	453.65
SW4315 IP55M	315	4	4	55	450	600	275	651.39
SW4400 IP55M	400	4	4	55	450	600	275	663.22
SW4630 IP55M	630	4	4	55	450	600	275	1,050.42



SW480 IP55M

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Isolator Spreader-Header Box - IP55								
SGBOX 3	250	3 & 4	3	55	275	320	175	142.39
SGBOX 4	315-630	3 & 4	4	55	275	450	275	229.48

FUSE SWITCHES - ENCLOSED IP55 - BS Type

Item	Rating (A)	Poles	Fuse Size	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Fuse Switches 3 Pole - IP55									
FS332 IP55BS	32	3	A1	1	55	180	215	135	235.18
FS363 IP55BS	63	3	A2-A3	2	55	270	300	150	264.98
FS3100 IP55BS	100	3	A4	3	55	320	395	175	410.04
FS3160 IP55BS	160	3	A3-A4	3	55	320	395	175	497.84
FS3200 IP55BS	200	3	B1-B2	3	55	320	395	175	602.73
FS3250 IP55BS	250	3	B1-B3	4	55	450	600	275	887.33
FS3400 IP55BS	400	3	B1-B4	4	55	450	600	275	1,138.29
FS3630 IP55BS	630	3	C1-C2	5	55	550	750	300	1,813.09



FS332 IP55BS

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Fuse Switch Spreader-Header Box - IP55								
SGBOX 3	80 - 160	3	3	55	275	320	175	142.39
SGBOX 4	200-400	3	4	55	275	450	275	229.48
SGBOX 5	630	3	5	55	275	550	375	271.66

FUSE SWITCHES - NH TYPE - ENCLOSED IP55 IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Polyester Fuse Switches - IP65							
FS32 IP65P	32	3	65	250	300	140	414.85
FS63 IP65P	63	3	65	250	300	140	467.03
FS125 IP65P	125	3	65	300	400	200	543.06
FS160 IP65P	160	3	65	300	400	200	555.73
FS250 IP65P	250	3	65	500	600	230	823.60
FS400 IP65P	400	3	65	600	800	300	1,125.91

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Fuse Switches 3 Pole - IP55								
FS320 IP55NH	20	3	1	55	180	215	135	213.62
FS332 IP55NH	32	3	1	55	180	215	135	218.36
FS363 IP55NH	63	3	2	55	270	300	150	314.76
FS380 IP55NH	80	3	3	55	320	395	175	449.01
FS3100 IP55NH	100	3	3	55	320	395	175	449.01
FS3125 IP55NH	125	3	3	55	320	395	175	450.03
FS3160 IP55NH	160	3	3	55	320	395	175	452.59
FS3200 IP55NH	200	3	4	55	450	600	275	826.79
FS3250 IP55NH	250	3	4	55	450	600	275	826.79
FS3315 IP55NH	315	3	4	55	450	600	275	979.80
FS3400 IP55NH	400	3	4	55	450	600	275	979.80
FS3630 IP55NH	630	3	5	55	550	750	300	1,574.82

Item	Rating (A)	Poles	Enclosure Size	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Fuse Switch Spreader-Header Box - IP55								
SGBOX 3	80 - 160	3	3	55	275	320	175	142.39
SGBOX 4	200-400	3	4	55	275	450	275	229.48
SGBOX 5	630	3	5	55	275	550	375	271.66



FS332 IP55NH



FS3250 IP55NH

METAL BUSBAR LINK - ENCLOSED IP55

Item	Description	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Busbar Link Box - IP55								
BBL160	Enclosed Metal Busbar Link	160	3P & N	55	300	400	200	160.74
BBL250	Enclosed Metal Busbar Chamber	250	3P & N	55	600	400	200	454.36
BBL400	Enclosed Metal Busbar Chamber	400	3P & N	55	600	400	250	516.58

ENCLOSED SWITCHGEAR



CHANGEOVER SWITCHES - ENCLOSED IP53 - IP55 - IP65

Item	Rating (A)	Poles	IP Rating	Width mm	Height mm	Depth mm	Trade Price
Metalclad Changeover Switches - IP53							
CO 25 IP53M	25	3	53	220	270	117	78.43
CO 32 IP53M	32	3	53	220	270	117	81.87
CO 40 IP53M	40	3	53	220	270	117	84.73
CO 63 IP53M	63	3	53	220	270	117	89.08
CO 80 IP53M	80	3	53	250	370	130	165.78
CO 100 IP53M	100	3	53	250	370	130	174.67
CO 125 IP53M	125	3	53	250	370	130	187.99



CO 80 IP53M

Metalclad Changeover Switches - IP55							
CO 63 IP55M	63	3	55	250	300	150	308.99
CO 80 IP55M	80	3	55	250	300	150	325.79
CO 125 IP55M	125	3	55	300	400	150	630.81
CO 160 IP55M	160	3	55	400	500	250	667.91
CO 250 IP55M	250	3	55	400	500	250	882.49
CO 400 IP55M	400	3	55	600	800	300	1,146.23



CO 160 IP55M

Polyester Changeover Switches - IP65							
CO 25 IP65P	25	3	65	190	280	130	88.09
CO 32 IP65P	32	3	65	190	280	130	91.64
CO 40 IP65P	40	3	65	190	280	130	94.59
CO 63 IP65P	63	3	65	190	280	130	99.07
CO 80 IP65P	80	3	65	342	253	129	209.46
CO 100 IP65P	100	3	65	342	253	129	227.09
CO 125 IP65P	125	3	65	300	200	140	510.41
CO 160 IP65P	160	3	65	400	500	200	735.74
CO 250 IP65P	250	3	65	400	600	230	950.34
CO 400 IP65P	400	3	65	600	800	300	1,313.29



CO 63 IP65P

GPB METALCLAD SWITCHGEAR IP44

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
Meter Boxes							
MSP1	Meter Box Single Phase	220	330	190	4	1	110.03
MSP2	Meter Box Three Phase	275	440	230	2	1	145.33
MSP4	Meter Box Three Phase	330	550	285	2	11	309.98
ESBCT3	ESB CT Chamber	540	660	240	4	111 & 11	367.92



MSP2

Busbar & Distribution Boxes 275A							
FP2201-1	Busbar & Distribution Box	220	220	120	4	1	49.05
FP2751-1	Busbar & Distribution Box	275	220	120	4	1	56.72
FP27511-11	Busbar & Distribution Box	275	220	120	2 + 2	1 & 11	56.72
FP44011-11	Busbar & Distribution Box	440	220	120	2 + 2	1 & 11	81.24



FP440

Busbar & Distribution Boxes 630A							
FPS2201-1	Busbar & Distribution Box	275	275	175	3 + 1	11 + 1	78.18
FPS2751-11	Busbar & Distribution Box	275	275	175	3 + 1	11 + 1	91.22
FPS27511-11	Busbar & Distribution Box	440	275	175	4	11	91.22
FPS44011-11	Busbar & Distribution Box	440	275	175	4	11	123.83
FPS440111-111	Busbar & Distribution Box	440	275	175	2 + 2	11 & 111	127.23



FPS275

GPKE METALCLAD SWITCHGEAR IP44

Item	Description	Width mm	Height mm	Depth mm	Flanges	Flange Size	Trade Price
Isolators							
LSP380	80A TP & N Isolator	215	160	120	2	1	140.59
SLSP31251-1	125A TP & N Isolator	215	220	150	2	1	318.38
SLSP312511-11	125A TP & N Isolator	270	275	150	2	11	344.93
SLSP316011-11	160A TP & N Isolator	270	275	150	2	11	371.46
SLSP3200	200A TP & N Isolator	270	275	150	2	11	392.00
SLSP3250	250A TP & N Isolator	270	275	150	2	11	580.09


SLBPS3125

Switchfuses (Complete with Fuses & Caps)							
GBDO363	63A TP Switchfuse	215	330	120	4	1	274.16
SLBPS3125	125A TP Switchfuse	270	275	220	2	11	530.02
SLBPS3160	160A TP Switchfuse	270	275	220	2	11	567.80
SLBPS3250	250A TP Switchfuse	435	400	240	2	11	827.81
SLBPS3400	400A TP Switchfuse	435	440	240	2	111	1,149.74


FPK21

Cable Spreader Boxes							
FPK21	Cable Spreader	270	330	175	2	11	148.56
FPK33	Cable Spreader	435	330	175	2	111	217.58

Fuse Boxes (Complete with Fuses)							
SPDO363	Triple pole Fuse base DO	215	165	120	2	1	95.15
GBSP31251-1	Triple pole Fuse base NH00	215	330	150	2	1	238.79
GBSP312511-11	Triple pole Fuse base NH00	270	330	150	2	11	251.17
GBSP3250	Triple pole Fuse base NH1	270	360	175	2	11	441.33
GBSP3400	Triple pole Fuse base NH2	435	400	225	2	111	799.51
GBSP3630	Triple pole Fuse base NH3	435	400	225	2	111	1,176.28


GBSP312511-11

* Flanges sold separately - see below.


K416

K435

K4120

Item	Description	Trade Price
Accessories		
BFO	Flange Size 1	4.08
BFSO	Flange Size 11	17.60
TFSO	Flat Flange Size 11	5.38
RFZO	Flange Size 111	87.73
NPE 35	Neutral - Earth Terminal 35mm	11.21
NPE 120	Neutral - Earth Terminal 120mm	36.00
TBN185	Neutral - Earth Terminal 185mm	50.93
SEAL	Sealing Screw 5mm	1.96
SEALKIT	GPKE Sealing Kit	14.14
K 416	4 x 16mm Terminal Block	26.07
K 435	4 x 35mm Terminal Block	43.65
K 495	4 x 95mm Terminal Block	55.47
K 4120	4 x 120mm Terminal Block	75.03
K 4185	4 x 185mm Terminal Block	135.95


NPE35

NPE120

FLANGES

DISCONNECTORS

Item	Rating (A)	Size	Trade Price
FUSE SWITCH DISCONNECTS			
707.036.405	160A	3 Pole NH00	41.39
707.037.001	250A	3 Pole NH1	124.08
707.038.001	400A	3 Pole NH2	197.08
707.039.001	630A	3 Pole NH3	253.05



707.037.001

Item	Rating (A)	Poles	Size	Trade Price
FUSE DISCONNECTORS				
EFD 101P	32A	1	10 x 38	2.88
EFD 102P	32A	2	10 x 38	6.31
EFD 103P	32A	3	10 x 38	9.09
EFD 221P	100A	1	22 x 58	11.09
EFD 223P	100A	3	22 x 58	35.87



EFD 101P



EFD 103P



EFD 221P



EFD 223P

FUSES - Cylindrical - DO

Item	Rating (A)	Type	Trade Price
DO Fuses gG(gl)			
6NZ01	6	DO1	0.56
20NZ02	20	DO2	0.56
25NZ02	25	DO2	0.56
35NZ02	35	DO2	0.56
50NZ02	50	DO2	0.77
63NZ02	63	DO2	0.77



Item	Rating (A)	Type	Size	Trade Price
Fuses Cylindrical				
FUSE 2A	2	10 X 38	0	0.88
FUSE 4A	4	10 X 38	0	0.54
FUSE 6A	6	10 X 38	0	0.63
FUSE 10A	10	10 X 38	0	0.47
FUSE 16A	16	10 X 38	0	0.82
FUSE 20A	20	10 X 38	0	0.82
FUSE 25A	25	10 X 38	0	0.88
FUSE 32A	32	10 X 38	0	0.88
MS63	63	22 X 58	2	2.73
MS80	80	22 X 58	2	2.73
MS100	100	22 X 58	2	2.73

FUSES NH

Item	Rating (A)	Type	Trade Price
NH Fuses 120kA gL-gC			
NV00C 6A	6	NH00C	3.28
NV00C 10A	10	NH00C	3.28
NV00C 16A	16	NH00C	3.28
NV00C 20A	20	NH00C	3.28
NV00C 25A	25	NH00C	2.56
NV00C 35A	35	NH00C	2.56
NV00C 40A	40	NH00C	2.56
NV00C 50A	50	NH00C	2.56
NV00C 63A	63	NH00C	2.56
NV00C 80A	80	NH00C	2.89
NV00C 100A	100	NH00C	2.89
NV00 125A	125	NH00	3.82
NV00 160A	160	NH00	3.82
NV1 200A	200	NH1	7.23
NV1 250A	250	NH1	7.23
NV1C 63A	63	NH1C	5.10
NV1C 80A	80	NH1C	5.10
NV1C 100A	100	NH1C	5.10
NV1C 125A	125	NH1C	5.10
NV1C 160A	160	NH1C	5.10



Item	Rating (A)	Type	Trade Price
NH Fuses 120kA gL-gC			
NV2C 63A	63	NH2C	8.12
NV2C 80A	80	NH2C	8.12
NV2C 100A	100	NH2C	8.12
NV2C 125A	125	NH2C	8.12
NV2C 160A	160	NH2C	8.12
NV2C 200A	200	NH2C	8.12
NV2C 250A	250	NH2C	8.12
NV2 315A	315	NH2	9.18
NV2 355A	355	NH2	9.18
NV2 400A	400	NH2	9.18
NV3C 250A	250	NH3C	14.31
NV3C 315A	315	NH3C	14.31
NV3C 355A	355	NH3C	14.31
NV3C 400A	400	NH3C	14.31
NV3 500A	500	NH3	15.99
NV3 630A	630	NH3	15.99
NV4 630A	630	NH4	60.35
NV4 800A	800	NH4	60.35
NV4 1000A	1000	NH4	63.63

PHOTO - VOLTAIC

GARO Photo Voltaic systems are designed to generate electricity at a local level. The systems can be used to offset the high cost of Electricity and also to 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. They also come with a 25 year efficiency warranty as standard.

GARO Micro Inverters are manufactured in Europe and fully comply and are manufactured to IEC 50438, IEC 62109, IEC61000 & G83/2. They have a maximum per panel output of 310 watt. They also come with a 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. They can also be supplied with medium Voltage switchgear for turnkey applications.

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. They also come with a 10 year durability warranty.



Item	Description	PV Panels	MICRO Inverters	RCBO	Meter	Trade Price
GPVM 1 - 260	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 260 watt	1	1	6A	GM1D	941.00
GPVM 2 - 520	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 520 watt	2	2	6A	GM1D	1,691.00
GPVM 3 - 780	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 780 watt	3	3	10A	GM1D	2,440.00
GPVM 4 - 1040	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 1040 watt	4	4	10A	GM1D	3,189.00
GPVM 5 - 1300	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 1300 watt	5	5	10A	GM1D	3,912.00
GPVM 6 - 1560	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 1560 watt	6	6	20A	GM1D	4,655.00
GPVM 7 - 1820	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 1820 watt	7	7	20A	GM1D	5,443.00
GPVM 8 - 2080	PV Panel Kit c/w panel, Inverter, Meter, & Fixings 2080 watt	8	8	20A	GM1D	6,165.00

For larger projects, please consult us, as it is likely a site survey will be required.

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.



Combined Charging Systems

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

EV Home Chargers

The charger is designed to be a safe and effective way to charge electric vehicles at one's own home and at private parking lots.

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



Item	Description	Rated A	Voltage V	Trade Price
GHL-T237 WO	Charge socket outlet Type 2	16	230 - 400	902.72
GHL-T274 WO	Charge socket outlet Type 2	32	230 - 400	902.72

EV Chargers for on-street and car park charging

The 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 3 charging station comes in two versions:

with two 16A sockets, type 2

with two 32A sockets, type 2

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

Item	Description	Rated A	Voltage V	Power kW (approx. values)	Trade Price
LS 3	2 x EV Power Outlets Type 2 Mode 3	16	230	2 x 3.7	3,388.32
LS 3-7.4	2 x EV Power Outlets Type 2 Mode 3	32	230 - 400	2 x 7.4	3,567.20
GFV	Ground Mounting Kit for LS 3 EV Post	16	230	3.7	115.36



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.



Standard Product Range

Item	Description	Trade Price
GMS E2 16A	Pillar c-w 2 x 16A pin 230V power outlets (lockable) & 2 RCBOs	1,090.49
GMS E4 16A	Pillar c-w 4 x 16A pin 230V power outlets (lockable) & 4 RCBOs	1,215.48
GMS E2 32A	Pillar c-w 2 x 32A pin 230V power outlets (lockable) & 2 RCBOs	1,730.56
GMS M2 16A	Pillar c-w 2 x 16A pin 230V power outlets (lockable), 2 RCBOs, 2 SP Meters	1,158.21
GMS M4 16A	Pillar c-w 4 x 16A pin 230V power outlets (lockable), 4 RCBOs, 4 SP Meters	1,501.09
GMS WL	Lighting Pillar c-w LED	533.69
GMS VK	Water Faucet 1-2"	88.63
GMS SH	Hose Holder	44.50

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

Prices available upon request



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

PORTABLE LED LIGHTING

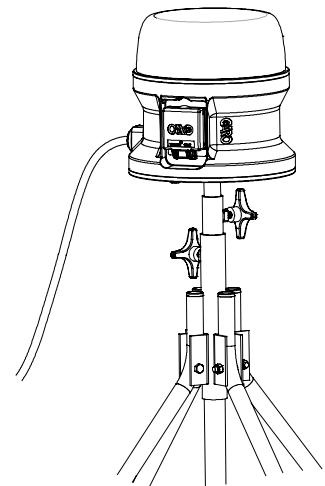
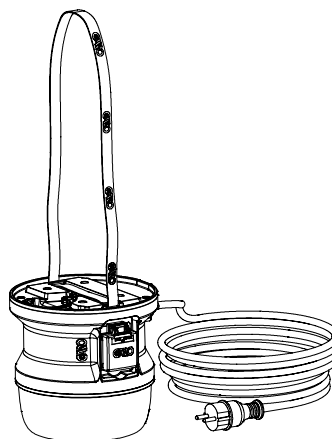
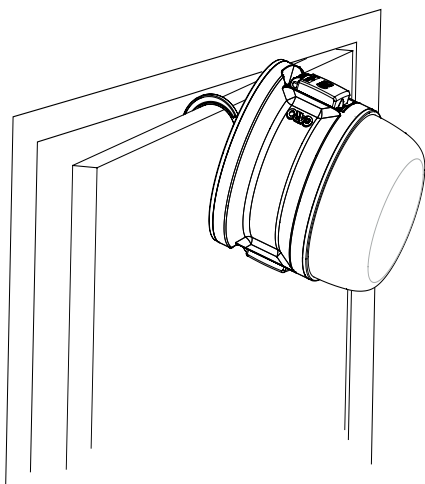
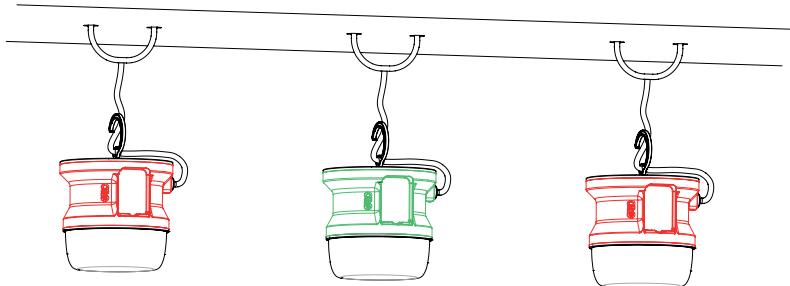
GARO BALL - LED Lamp

Our LED lamp is designed for use in the work environment. Made from robust plastic material and developed with regard to work in the construction industry the lamp is designed for mounting in various positions and can also be wired in parallel coupling up to a maximum of 35 lamps.

Energy efficiency, light distribution and ease of storage and transportation makes it the ideal tool for all workers. With high energy LED technology the consumption of energy is halved and the lamp life is doubled in comparison to similar standard lamp products.

An even spread of lateral light is achieved by means of specially designed diffusers within the casing. Each lamp is fitted with 7 metres of cable, a fixed mounting plate, versatile hanger-hook and an adjustable clamping strap to suit all work environments.

Item	Operating Voltage	LED Wattage	IK Rating	Battery backup	Trade Price
BALL 110	110V	19	10	No	199.68
BALL 110N	110V	19	10	2 x 30 mins	266.24
BALL 230	230V	19	10	No	199.68
BALL 230N	230V	19	10	2 x 30 mins	266.24
BALL 230BS	230V	19	10	No	199.68
BALL 230BSN	230V	19	10	2 x 30 mins	266.24



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:
CAD, graphic workstations; 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	89.44
NPE-0650	650VA line interactive	15	143.52
NPE-0850	850VA line interactive	20	210.08
NPE-1000-LCD	1000VA line interactive	45	336.96
NPE-1500-LCD	1500VA line interactive	55	461.76
NPE-2000-LCD	2000VA line interactive	60	544.96

** 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
UPS			
NPR-1000-MT	1kVA line interactive tower	7	457.60
NET 1000-PR-1U	1kVA line interactive mount	8	832.00
NPR-1500-MT	1.5kVA line interactive tower	8	640.64
NET 1500-PR-1U	1.5kVA line interactive mount	8	1,260.48
NPR-1700-RT	1.7kVA line interactive mount	10	963.04
NPR-2000-MT	2kVA line interactive tower-rack	8	863.20
NPR-2200-RT	2.2kVA line interactive rack mount	8	1,295.84
NPR-3300-RT	3.3kVA line interactive rack mount	9	1,693.12

* 75% nominal load



NETYS PR range

Item	Description	Trade Price
Additional Options		
NPR-1700-RT-BE	1.7 & 2.2kVA UPS Battery Extension	505.44
NPR-3300-RT-BE	3.3kVA UPS Battery Extension	960.96
NRT-OP-RAIL-PR	19" Rack Support Rail	93.60
NPR-OP-REL	Relay Card - for RT & 1U models only	137.28
NET-OP-USB	USB Cable	10.40

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 the mains power supply. Modular battery extension (MBE). Battery Life 3 - 5 years.

Item	Description	BUT (mins)*	Trade Price
UPS			
NRT-U1100	1.1kVA On line tower-rack	8	1,189.76
NRT-U1700	1.7kVA On line tower-rack	12	1,664.00
NRT-U2200	2.2kVA On line tower-rack	8	2,009.28
NRT-U3000	3kVA On line tower-rack	10	2,548.00
NRT2-5000k	5kVA On line tower-rack	10	4,472.00
NRT2-7000k	7kVA On line tower-rack	7	5,408.00
NRT2-7000CLA	7kVA On line tower-rack	-	4,021.68
NRT2-9000k	9kVA On line tower-rack	12	6,911.84
NRT2-11000k	11kVA On line tower-rack	8	7,743.84
NRT2-11000CLA	11kVA On line tower-rack	-	5,720.00

* 75% nominal load

Item	Description	Trade Price
Additional Options		
NRT-B1100	1.1kVA UPS Battery Extension	748.80
NRT-B2200	1.7 & 2.2kVA UPS Battery Extension	1,154.40
NRT-B3000	3kVA UPS Battery Extension	1,632.80
NRT-B7000	5 & 7kVA UPS Battery Extension	1,836.64
NRT-B11000	9 & 11kVA UPS Battery Extension	2,308.80
NRT-OP-BCH48V	Additional battery charger 4-8A 48VDC for UPS 1700VA - 2200VA	1,040.00
NRT-OP-BCH72V	Additional battery charger 4-8A 72VDC for UPS 3000VA	1,306.24
NRT-OP-REL	Relay Card	137.28
NRT-OP-SNMP	SNMP COMMS Card	361.92
NRT-OP-RAIL-RT	19" Rack Support Rail	106.08



NETYS RT range

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
UPS			
ITY-TW010B	1kVA On line tower	10	992.16
ITY-TW020B	2kVA On line tower	17	1,693.12
ITY-TW030B	3kVA On line tower	9	1,961.44
ITY-TW060B	6kVA On line tower	13	4,330.56
ITY-TW100B	10kVA On line tower	9	6,188.00
ITY-TW030LB	3kVA, for use with external battery	-	1,965.60
ITY-TW060LB	6kVA, for use with external battery	-	4,076.80
ITY-TW100LB	10kVA, for use with external battery	-	5,865.60
ITY-EX030B	External Battery for 3kVA	PTO	1,451.84
ITY-EX100B	External Battery for 6 & 10kVA	PTO	4,243.20
ITY-OP-ADC	Relay Card		174.72

* 75% nominal load



ITYS range

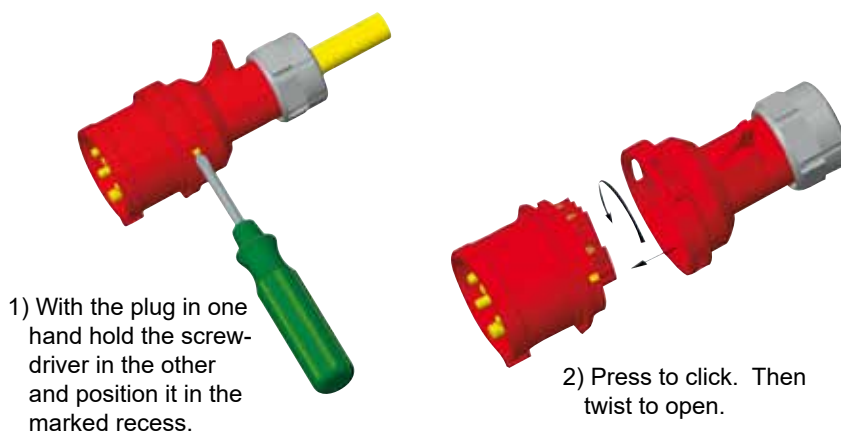
GARO PRO — MADE FOR PROFESSIONALS!

GAROs program of POWER CONNECTORS is made for professionals, so we've labelled our entire range of CEE - IEC connectors, outlet boxes, plugs, couplers, etc. the PRO range. The range comprises four distinct groups:

- PRO** our standard range of products
- PRO SCENE** solid black products, specially designed for stage, stadium and other 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.



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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	P 216-4 S	100-130	50-60	4	10	3.04
	P 216-6 S	200-250	50-60	6	10	3.04
	P 232-4 S	100-130	50-60	4	10	9.52
	P 232-6 S	200-250	50-60	6	10	9.52
	P 263-4 S	100-130	50-60	4	2	38.46
	P 263-6 S	200-250	50-60	6	2	29.50
4 3p + E	P 316-4 S	100-130	50-60	4	10	5.83
	P 316-6 S	380-415	50-60	6	10	5.83
	P 332-4 S	100-130	50-60	4	10	10.02
	P 332-6 S	380-415	50-60	6	10	10.02
	P 363-4 S	100-130	50-60	4	2	36.04
	P 363-6 S	380-415	50-60	6	2	30.25
5 3p + N + E	P 416-4 S	100-130	50-60	4	10	4.57
	P 416-6 S	200-415	50-60	6	10	6.49
	P 432-4 S	100-130	50-60	4	10	10.59
	P 432-6 S	200-415	50-60	6	10	10.59
	P 463-4 S	100-130	50-60	4	2	43.69
	P 463-6 S	200-415	50-60	6	2	31.74

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	PV 216-4	100-300	50-60	4 	10	6.40
	PV 216-6	200-250	50-60	6 	10	6.40
	PV 232-4	100-130	50-60	4 	10	11.65
	PV 232-6	200-250	50-60	6 	10	11.65
	PV 263-4S	100-130	50-60	4 	2	29.10
	PV 263-6S	200-250	50-60	6 	2	23.08
	PV 2125-4S	100-130	50-60	4 	2	118.44
	PV 2125-6S	200-250	50-60	6 	2	118.44
4 3p + E	PV 316-4	100-130	50-60	4 	10	7.58
	PV 316-6	380-415	50-60	6 	10	7.58
	PV 332-4	100-130	50-60	4 	10	12.21
	PV 332-6	380-415	50-60	6 	10	12.21
	PV 363-4S	100-130	50-60	4 	2	30.89
	PV 363-6S	380-415	50-60	6 	2	30.89
	PV 3125-4S	100-130	50-60	4 	2	127.18
	PV 3125-6S	380-415	50-60	6 	2	127.18
5 3p + N + E	PV 416-4	100-130	50-60	4 	10	8.50
	PV 416-6	200-415	50-60	6 	10	8.50
	PV 432-4	100-130	50-60	4 	10	13.76
	PV 432-6	200-415	50-60	6 	10	13.76
	PV 463-4S	100-130	50-60	4 	2	40.71
	PV 463-6S	200-415	50-60	6 	2	32.28
	PV 4125-4S	100-130	50-60	4 	2	131.11
	PV 4125-6S	200-415	50-60	6 	2	131.11

Other clock positions are produced to order.

PLUGS ANGLED 16A and 32A IP44

Connectable cable size:

16A: 1-2,5 mm²32A: 2,5-6 mm²

Degree of protection IP44



PA 216 - 6S

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	PA 216-6 S	200-250	50-60	6 ■	10	15.39
5 3p + N + E	PA 416-4 S	100-130	50-60	4 ■	10	17.19
	PA 416-6 S	200-415	50-60	6 ■	10	16.53
	PA 432-6 S	200-415	50-60	6 ■	10	23.62

PHASE INVERTER 16A and 32A IP44

Connector size:

16A: 1-2,5 mm²32A: 2,5-6 mm²

Degree of protection IP44.

Accessories:

Covers TL416S, TL432S



FV 416 - 6S

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
4 2p + N + E	FV 316-6 S	380-415	50-60	6 ■	10	15.17
5 3p + N + E	FV 416-6 S	200-415	50-60	6 ■	10	15.17
5 3p + N + E	FV 432-6 S	200-415	50-60	6 ■	10	16.06

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	S 216-4 S	100-130	50-60	4 	10	4.94
	S 216-6 S	200-250	50-60	6 	10	4.94
	S 232-4 S	100-130	50-60	4 	10	11.45
	S 232-6 S	200-250	50-60	6 	10	11.45
	S 263-4 S	100-130	50-60	4 	2	28.92
	S 263-6 S	200-250	50-60	6 	2	28.92
4 3p + E	S 316-4 S	100-130	50-60	4 	10	6.18
	S 316-6 S	380-415	50-60	6 	10	6.18
	S 332-4 S	100-130	50-60	4 	10	11.96
	S 332-6 S	380-415	50-60	6 	10	11.96
	S 363-4 S	100-130	50-60	4 	2	28.92
	S 363-6 S	380-415	50-60	6 	2	28.92
5 3p + N + E	S 416-4 S	100-130	50-60	4 	10	11.51
	S 416-6 S	200-415	50-60	6 	10	9.91
	S 432-4 S	100-130	50-60	4 	10	13.76
	S 432-6 S	200-415	50-60	6 	10	12.22
	S 463-4 S	100-130	50-60	4 	2	31.58
	S 463-6 S	200-415	50-60	6 	2	31.58

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	SV 216-4	100-130	50-60	4	10	8.70
	SV 216-6	200-250	50-60	6	10	8.70
	SV 232-4	100-130	50-60	4	10	15.16
	SV 232-6	200-250	50-60	6	10	15.16
	SV 263-4	100-130	50-60	4	2	44.56
	SV 263-6S	200-250	50-60	6	2	33.35
	SV 2125-4S	100-130	50-60	4	2	143.01
	SV 2125-6S	200-250	50-60	6	2	143.01
4 3p + E	SV 316-4	100-130	50-60	4	10	9.90
	SV 316-6	380-415	50-60	6	10	9.90
	SV 332-4	100-130	50-60	4	10	16.14
	SV 332-6	380-415	50-60	6	10	16.14
	SV 363-4S	100-130	50-60	4	2	35.94
	SV 363-6S	380-415	50-60	6	2	35.94
	SV 3125-4S	100-130	50-60	4	2	143.97
	SV 3125-6S	380-415	50-60	6	2	143.97
5 3p + N + E	SV 416-4	100-130	50-60	4	10	11.37
	SV 416-6	200-415	50-60	6	10	11.37
	SV 432-4	100-130	50-60	4	10	17.90
	SV 432-6	200-415	50-60	6	10	17.90
	SV 463-4	100-130	50-60	4	2	33.55
	SV 463-6S	200-415	50-60	6	2	43.95
	SV 4125-4S	100-130	50-60	4	2	149.43
	SV 4125-6S	200-415	50-60	6	2	149.43

Other clock positions are produced to order.

WALL SOCKET 16A - 63A IP44

For wall and machine mounting with cable connection possible from top and 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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	UI 216-4 S - RU	100-130	50-60	4	10	6.51
	UI 216-6 S - RU	200-250	50-60	6	10	6.51
	UI 232-4 S - RU	100-130	50-60	4	10	12.22
	UI 232-6 S - RU	200-250	50-60	6	10	12.22
4 3p + E	UI 316-4 S - RU	100-130	50-60	4	10	11.27
	UI 316-6 S - RU	380-415	50-60	6	10	8.09
	UI 332-4 S - RU	100-130	50-60	4	10	12.49
	UI 332-6 S - RU	380-415	50-60	6	10	12.49
5 3p + N + E	UI 416-4 S - RU	100-130	50-60	4	10	9.91
	UI 416-6 S - RU	200-415	50-60	6	10	9.91
	UI 432-4 S - RU	100-130	50-60	4	10	14.22
	UI 432-6 S - RU	200-415	50-60	6	10	14.22



UI 216-4 DE-RU

Wall sockets with double entry

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	UI 216-4 DE - RU	100-130	50-60	4	10	10.73
	UI 216-6 DE - RU	200-250	50-60	6	10	8.93
	UI 232-6 DE - RU	200-250	50-60	6	10	14.49
	UI 263-4 S - RU	100-130	50-60	4	2	48.92
	UI 263-6 S - RU	200-250	50-60	6	2	39.35
4 3p + E	UI 316-6 DE - RU	380-415	50-60	6	10	12.93
	UI 332-6 DE - RU	380-415	50-60	6	10	15.07
	UI 363-4 S - RU	100-130	50-60	4	2	51.53
	UI 363-6 S - RU	380-415	50-60	6	2	41.80
5 3p + N + E	UI 416-6 DE - RU	200-415	50-60	6	10	13.90
	UI 432-6 DE - RU	200-415	50-60	6	10	17.33
	UI 463-4 S - RU	100-130	50-60	4	2	56.40
	UI 463-6 S - RU	200-415	50-60	6	2	44.78

Other clock positions are produced to order.

WALL SOCKET WATERTIGHT 16A - 125A IP67

For wall mounting with cable connection possible from top and 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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	UIV 216-4 - RV	100-130	50-60	4	5	12.92
	UIV 216-6 - RV	200-250	50-60	6	5	12.92
	UIV 232-4 - RV	100-130	50-60	4	5	17.34
	UIV 232-6 - RV	200-250	50-60	6	5	17.34
	UIV 263-4 - RV	100-130	50-60	4	2	37.19
	UIV 263-6S - RU	200-250	50-60	6	2	37.19
	UIV 2125-4 - RV	100-130	50-60	4	1	164.25
	UIV 2125-6S - RU	200-250	50-60	6	1	164.25
4 3p + E	UIV 316-4 - RV	100-130	50-60	4	5	13.76
	UIV 316-6 - RV	380-415	50-60	6	5	13.76
	UIV 332-4 - RV	100-130	50-60	4	5	17.96
	UIV 332-6 - RV	380-415	50-60	6	5	17.96
	UIV 363-4 - RV	100-130	50-60	4	2	31.99
	UIV 363-6 - RV	380-415	50-60	6	2	31.99
	UIV 3125-4 - RV	100-130	50-60	4	1	168.46
	UIV 3125-6S - RU	380-415	50-60	6	1	168.46
5 3p + N + E	UIV 416-4 - RV	100-130	50-60	4	5	14.67
	UIV 416-6 - RV	200-415	50-60	6	5	14.67
	UIV 432-4 - RV	100-130	50-60	4	5	19.72
	UIV 432-6 - RV	200-415	50-60	6	5	19.72
	UIV 463-4 - RV	100-130	50-60	4	2	46.32
	UIV 463-6 - RV	200-415	50-60	6	2	46.32
	UIV 4125-4 - RV	100-130	50-60	4	1	199.35
	UIV 4125-6S - RU	200-415	50-60	6	1	199.35

Other clock positions are produced to order.

WALL INLET 16A - 63A IP44

For wall mounting with cable connection possible from top and from 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 263-6S - RI



II 216-4S - RI

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	II 216-4 S - RI	100-130	50-60	4 ■	10	10.45
	II 216-6 S - RI	200-250	50-60	6 ■	10	10.45
	II 232-4 S - RI	100-130	50-60	4 ■	10	12.96
	II 232-6 S - RI	200-250	50-60	6 ■	10	12.96
	II 263-6 S - RI	200-250	50-60	6 ■	2	42.19
4 3p + E	II 316-4 S - RI	100-130	50-60	4 ■	10	9.89
	II 316-6 S - RI	380-415	50-60	6 ■	10	11.15
	II 332-4 S - RI	100-130	50-60	4 ■	10	13.99
	II 332-6 S - RI	380-415	50-60	6 ■	10	13.99
	II 363 6 S - RI	380-415	50-60	6 ■	2	45.27
5 3p + N + E	II 416-4 S - RI	100-130	50-60	4 ■	10	10.70
	II 416-6 S - RI	200-415	50-60	6 ■	10	11.14
	II 432-4 S - RI	100-130	50-60	4 ■	10	36.89
	II 432-6 S - RI	200-415	50-60	6 ■	10	22.18
	II 463-6 S - RI	380-415	50-60	6 ■	2	51.15

Other clock positions are produced to order.

WALL INLET WATERTIGHT 16A - 125A IP67

Waterproof inlet for wall mounting.

Connectable cable size:

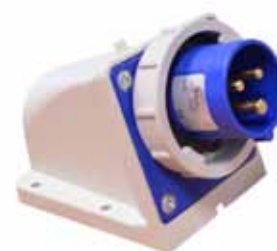
16A: 1-2,5 mm² and 1-4 mm² for solid cable.

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: 16-50 mm² and for solid cable 16-70 mm²

Degree of protection IP67.



IIV 216-6 + RV



IIV 463-6S - RI

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	IIV 216-4 - RV	100-130	50-60	4	10	23.16
	IIV 216-6 - RV	200-250	50-60	6	10	23.16
	IIV 232-4 - RV	100-130	50-60	4	10	31.20
	IIV 232-6 - RV	200-250	50-60	6	10	31.20
	IIV 263-4 - RV	100-130	50-60	4	2	73.55
	IIV 263-6S - RI	200-250	50-60	6	2	67.38
	IIV 2125-4 - RI	100-130	50-60	4	1	178.70
	IIV 2125-6 - RI	200-250	50-60	6	1	171.27
4 3p + E	IIV 332-4 - RV	100-130	50-60	4	10	44.93
	IIV 332-6 - RV	380-415	50-60	6	10	44.93
	IIV 363-6S - RI	380-415	50-60	6	2	45.90
	IIV 3125-4 - RI	100-130	50-60	4	1	192.74
	IIV 3125-6 - RV	380-415	50-60	6	1	184.88
5 3p + N + E	IIV 416-4 - RV	100-130	50-60	4	10	26.88
	IIV 416-6S - RV	200-415	50-60	6	10	26.67
	IIV 432-4 - RV	100-130	50-60	4	10	56.16
	IIV 432-6 - RV	200-415	50-60	6	10	56.16
	IIV 463-4 - RI	100-130	50-60	4	2	77.50
	IIV 463-6S - RI	200-415	50-60	6	2	73.01
	IIV 4125-4 - RI	100-130	50-60	4	1	230.93
	IIV 4125-6S - RI	200-415	50-60	6	1	223.78

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.



Poles	Type	Connectors	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3	P3 S216-4S	3 x 16A socket outlets	110-130	50-60	4	1	49.59
3	P3 S216-6S	3 x 16A socket outlets	200-250	50-60	6	1	45.09

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.



Poles	Type	Connectors	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3	PV3 S216-4S	3 x 16A socket outlets	110-130	50-60	4	1	66.23
3	PV3 S216-6S	3 x 16A socket outlets	200-250	50-60	6	1	60.24

ADAPTOR 16A - 13A BS IP44

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



Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3	II216-6-13A	200-250	50-60	6	10	19.85

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	UIL 216-4 S	100-130	50-60	4	10	3.92
	UIL 216-6 S	200-250	50-60	6	10	3.57
	UI 216-4 S	100-130	50-60	4	10	3.88
	UI 216-6 S	200-250	50-60	6	10	3.57
	UI 232-4 S	100-130	50-60	4	10	5.37
	UI 232-6 S	200-250	50-60	6	10	4.99
	UI 263-4 S	100-130	50-60	4	2	40.18
	UI 263-6 S	200-250	50-60	6	2	30.89
4 3p + E	UI 316-4 S	100-130	50-60	4	10	5.89
	UI 316-6 S	380-415	50-60	6	10	4.47
	UI 332-4 S	100-130	50-60	4	10	5.70
	UI 332-6 S	380-415	50-60	6	10	5.72
	UI 363-4 S	100-130	50-60	4	2	29.80
	UI 363-6 S	380-415	50-60	6	2	29.78
5 3p + N + E	UI 416-4 S	100-130	50-60	4	10	4.67
	UI 416-6 S	200-415	50-60	6	10	4.65
	UI 432-4 S	100-130	50-60	4	10	6.60
	UI 432-6 S	200-415	50-60	6	10	6.62
	UI 463-4 S	100-130	50-60	4	2	32.77
	UI 463-6 S	200-415	50-60	6	2	32.76

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 and 1-4 mm² for solid cable.

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

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

Degree of protection IP44.



UIS 316-6S



UIS 263-6S

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	UIS 216-4 S	100-130	50-60	4	10	3.92
	UIS 216-6 S	200-250	50-60	6	10	3.57
	UIS 232-4 S	100-130	50-60	4	10	6.07
	UIS 232-6 S	200-250	50-60	6	10	5.37
	UIS 263-4 S	100-130	50-60	4	2	29.53
	UIS 263-6 S	200-250	50-60	6	2	29.54
4 3p + E	UIS 316-4 S	100-130	50-60	4	10	4.93
	UIS 316-6 S	380-415	50-60	6	10	4.92
	UIS 332-4 S	100-130	50-60	4	10	5.53
	UIS 332-6 S	380-415	50-60	6	10	5.55
	UIS 363-4 S	100-130	50-60	4	2	31.63
	UIS 363-6 S	380-415	50-60	6	2	31.62
5 3p + N + E	UIS 416-4 S	100-130	50-60	4	10	4.67
	UIS 416-6 S	200-415	50-60	6	10	4.65
	UIS 432-4 S	100-130	50-60	4	10	6.63
	UIS 432-6 S	200-415	50-60	6	10	6.62
	UIS 463-4 S	100-130	50-60	4	2	32.80
	UIS 463-6 S	200-415	50-60	6	2	32.79

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 and 1-4 mm² for solid cable.

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

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

125A: 16-50 mm² and 16-70 mm² for solid cable.

Supplied with gasket.

Degree of protection IP67.



UIV 232-4



UISV 263-6S

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos. - colour code	Package size	Trade Price
3 2p + E	UISV 216-4S	100-130	50-60	4	10	8.91
	UISV 216-6	200-250	50-60	6	10	8.94
	UISV 232-4S	100-130	50-60	4	10	11.20
	UISV 232-6S	200-250	50-60	6	10	10.71
	UIV 263-4	100-130	50-60	4	2	51.91
	UISV 263-6S	200-250	50-60	6	2	31.89
	UIV 2125-4	100-130	50-60	4	2	110.05
	UISV 2125-6	200-250	50-60	6	2	60.87
4 3p + E	UIV 316-4	100-130	50-60	4	10	12.21
	UISV 316-6S	380-415	50-60	6	10	9.22
	UIV 332-4	100-130	50-60	4	10	10.17
	UISV 332-6S	380-415	50-60	6	10	11.30
	UIV 363-6	380-415	50-60	6	2	50.82
	UIV 3125-4	100-130	50-60	4	2	181.66
	UISV 3125-6S	380-415	50-60	6	2	62.85
5 3p + N + E	UIV 416-4	100-130	50-60	4	10	12.98
	UISV 416-6S	200-415	50-60	6	10	10.16
	UIV 432-4	100-130	50-60	4	10	12.81
	UISV 432-6S	200-415	50-60	6	10	12.51
	UIV 463-4	100-130	50-60	4	2	27.63
	UISV 463-6S	200-415	50-60	6	2	34.56
	UIV 4125-4	100-130	50-60	4	2	196.26
	UISV 4125-6	200-415	50-60	6	2	66.77

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p+E	II 216-4 S	100-130	50-60	4 	10	4.30
	II 216-6 S	200-250	50-60	6 	10	4.30
	II 232-4 S	100-130	50-60	4 	10	6.23
	II 232-6 S	200-250	50-60	6 	10	6.24
	II 263-4 S	100-130	50-60	4 	4	18.58
	II 263-6 S	200-250	50-60	6 	4	18.58
4 3p + E	II 316-4 S	100-130	50-60	4 	10	5.37
	II 316-6 S	380-415	50-60	6 	10	5.37
	II 332-4 S	100-130	50-60	4 	10	7.14
	II 332-6 S	380-415	50-60	6 	10	7.14
5 3p+N+E	II 416-4 S	100-130	50-60	4 	10	5.37
	II 416-6 S	200-415	50-60	6 	10	5.37
	II 432-4 S	100-130	50-60	4 	10	7.14
	II 432-6 S	200-415	50-60	6 	10	7.14

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
3 2p + E	IIV 263-4	100-130	50-60	4 	2	50.09
	IIV 263-6	200-250	50-60	6 	2	37.72
	IIV 2125-4	100-130	50-60	4 	2	95.16
	IISV 2125-6S	200-250	50-60	6 	2	79.28
4 3p + E	IIV 363-4	100-130	50-60	4 	2	43.82
	IIV 363-6	380-415	50-60	6 	2	43.82
	IIV 3125-6	380-415	50-60	6 	2	91.66
5 3p + N + E	IIV 463-4	100-130	50-60	4 	2	43.82
	IIV 463-6	200-415	50-60	6 	2	43.82
	IIV 4125-6	200-415	50-60	6 	2	83.96

Other clock positions are produced to order.

INTERLOCKED SOCKETS OUTLETS WATERTIGHT 16A - 125A IP67

Watertight socket for wall mounting with cable connection possible from top and 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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos. - colour code	Package size	Trade Price
16A, 32A, 63A			Type			
3 2p + E	UBC 216-4S	100-130	50-60	4	1	61.46
	UBC 216-6S	200-250	50-60	6	1	61.46
	UBC 232-4S	100-130	50-60	4	1	64.58
	UBC 232-6S	200-250	50-60	6	1	64.58
	UBV 263-4	100-130	50-60	4	1	180.16
	UBV 263-6SI	200-250	50-60	6	1	178.18
4 3p + E	UBC 316-4S	100-130	50-60	4	1	62.75
	UBC 316-6S	380-415	50-60	6	1	62.75
	UBC 332-4S	100-130	50-60	4	1	68.91
	UBC 332-6S	380-415	50-60	6	1	68.91
	UBV 363-4	100-130	50-60	4	1	234.00
	UBV 363-6SI	380-415	50-60	6	1	186.10
5 3p + N + E	UBC 416-4S	100-130	50-60	4	1	66.10
	UBC 416-6S	230-400	50-60	6	1	66.10
	UBV 432-4	100-130	50-60	4	1	80.78
	UBV 432-6	230-400	50-60	6	1	80.78
	UBV 463-4	100-130	50-60	4	1	251.97
	UBV 463-6	230-400	50-60	6	1	186.56

125A						
3	UBV 2125-4	100-130	50-60	4	1	P.O.A.
2p + E	UBV 2125-6	200-250	50-60	6	1	P.O.A.
4	UBV 3125-4	100-130	50-60	4	1	P.O.A.
3p + E	UBV 3125-6	380-415	50-60	6	1	P.O.A.
5	UBV 4125-4	100-130	50-60	4	1	P.O.A.
3p + N + E	UBV 4125-6	200-415	50-60	6	1	1020.48

COMBINATION UNITS 16A - 63A IP44

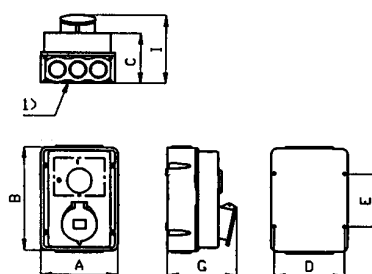
The units facilitate socket protection by RCCB.
 Enclosure has plenty of wiring space.
 FL 13 flanges in top and bottom combined with
 knock-outs: 6 x Ø 32 mm.
 Connectable cable size:
 25 mm², earth terminal 10 mm².
 Supplied with 2 x membrane cable glands M32.
 Degree of protection IP44.

Components sold separately.

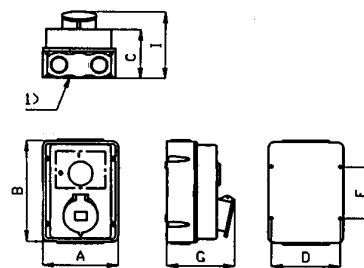


URB 216- 6

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.

Poles	Type	Operating Voltage V	Clock pos.- colour code	Package size	Trade Price
16A					
3- 2p+E	URB 216-4	100-130	4 ■	1	65.91
	URB 216-6	200-250	6 ■	1	63.40
4- 3p+E	URB 316-6	380-415	6 ■	1	105.73
5- 3p+N+P	URB 416-6	200-415	6 ■	1	74.46
32A					
3- 2p+E	URB 232-4	100-130	4 ■	1	67.05
	URB 232-6	200-250	6 ■	1	64.47
4- 3p+E	URB 332-6	380-415	6 ■	1	105.73
5- 3p+N+P	URB 432-6	200-415	6 ■	1	65.37
63A					
3- 2p+E	URB 263-6	200-250	6 ■	1	85.32
4- 3p+E	URB 363-6	380-415	6 ■	1	87.68
5- 3p+N+P	URB 463-6	200-415	6 ■	1	89.76

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.



URBBV 363-6S

Components sold separately.

Poles	Type	Module space for	Operating Voltage V	Clock pos.- colour code	Package size	Trade Price
16A		components				
3	URBBV 216-4S	5	100-130	4	1	94.26
2p + E	URBBV 216-6S	5	200-250	6	1	94.26
4	URBBV 316-4S	5	100-130	4	1	96.58
3p + E	URBBV 316-6S	5	380-415	6	1	96.58
5	URBBV 416-4S	5	100-130	4	1	99.66
3p + N + E	URBBV 416-6S	5	200-415	6	1	99.66

32A						
3	URBBV 232-4S	5	100-130	4	1	141.67
2p + E	URBBV 232-6S	5	200-250	6	1	141.67
4	URBBV 332-4S	5	100-130	4	1	147.06
3p + E	URBBV 332-6S	5	380-415	6	1	147.06
5	URBBV 432-4S	5	100-130	4	1	151.50
3p + N + E	URBBV 432-6S	5	200-415	6	1	151.50

63A						
3	URBBV 263-4S	7	100-130	4	1	283.21
2p + E	URBBV 263-6S	7	200-250	6	1	283.21
4	URBBV 363-4S	7	100-130	4	1	290.95
3p + E	URBBV 363-6S	7	380-415	6	1	286.51
5	URBBV 463-4S	7	100-130	4	1	290.95
3p + N + E	URBBV 463-6S	7	200-415	6	1	290.95

125A						
3	URBBV 2125-4S	8	100-130	4	1	P.O.A.
2p + E	URBBV 2125-6S	8	200-250	6	1	P.O.A.
4	URBBV 3125-4S	8	100-130	4	1	P.O.A.
3p + E	URBBV 3125-6S	8	380-415	6	1	P.O.A.
5	URBBV 4125-4S	8	100-130	4	1	P.O.A.
3p + N + E	URBBV 4125-6S	8	200-415	6	1	P.O.A.

GARO PRO SCENE



For situations where there is a special requirement for top quality and invisibility. 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 mm²32A: 2,5-6 mm²

Degree of Protection IP44.



P 316 - 6 S- B



S 216-6 S - B

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
PLUGS IP44						
16 A						
3- 2p+E	P 216-6 S-B	200-250	50-60	6 ■	10	4.13
4- 3p+E	P 316-6 S-B	380-415	50-60	6 ■	10	5.60
5- 3p+N+P	P 416-6 S-B	200-415	50-60	6 ■	10	5.84
32 A						
3- 2p+E	P 232-6 S-B	200-250	50-60	6 ■	10	7.79
4- 3p+E	P 332-6 S-B	380-415	50-60	6 ■	10	8.50
5- 3p+N+P	P 432-6 S-B	200-415	50-60	6 ■	10	9.00

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
COUPLERS IP44						
16 A						
3- 2p+E	S 216-6 S-B	200-250	50-60	6 ■	10	5.84
4- 3p+E	S 316-6 S-B	380-415	50-60	6 ■	10	7.79
5- 3p+N+P	S 416-6 S-B	200-415	50-60	6 ■	10	8.75
32 A						
3- 2p+E	S 232-6 S-B	200-250	50-60	6 ■	10	10.21
4- 3p+E	S 332-6 S-B	380-415	50-60	6 ■	10	10.70
5- 3p+N+P	S 432-6 S-B	200-415	50-60	6 ■	10	11.43

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

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
PLUGS IP67						
63 A						
3- 2p+E	P 263-6 S-B	200-250	50-60	6 ■	2	38.44
4- 3p+E	P 363-6 S-B	380-415	50-60	6 ■	2	39.60
5- 3p+N+P	P 463-6 S-B	200-415	50-60	6 ■	2	44.67
125 A						
3- 2p+E	P 2125-6 S-B	200-250	50-60	6 ■	2	88.55
4- 3p+E	P 3125-6 S-B	380-415	50-60	6 ■	2	93.20
5- 3p+N+P	P 4125-6 S-B	200-415	50-60	6 ■	2	102.53

Poles	Type	Operating Voltage V	Frequency Hz	Clock pos.- colour code	Package size	Trade Price
COUPLERS IP67						
63 A						
3- 2p+E	S 263-6 S-B	200-250	50-60	6 ■	2	47.00
4- 3p+E	S 363-6 S-B	380-415	50-60	6 ■	2	48.56
5- 3p+N+P	S 463-6 S-B	200-415	50-60	6 ■	2	53.59
125 A						
3- 2p+E	S 2125-6 S-B	200-250	50-60	6 ■	2	97.08
4- 3p+E	S 3125-6 S-B	380-415	50-60	6 ■	2	102.53
5- 3p+N+P	S 4125-6 S-B	200-415	50-60	6 ■	2	112.61

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22153409	30	BV8PORR-GO	29	EFD221P	36	FS3400IP55NH	33
20NZ02	36	BV8PTRR-GO	27	EFD223P	36	FS3630IP55BS	32
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1. DEFINITIONS

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

'The Company' shall mean Garo Electric Irl 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 Customers interests and to that extent shall assign to the Customer the benefit of such guarantee or warranty (if any) as may be given by the manufacturers in relation to the Goods. The Company does not accept liability for any consequential damage howsoever arising from the purchase by the Customer of the Goods whether the same may arise out of any use of the Goods or the installation of the same.

7. DELIVERY DATES

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

8. RETURNS

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

8.(i) CLAIMS

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

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

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

9. PACKING AND TRANSIT

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

10. ORDERS

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

11. WAIVER

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

12. OWNERSHIP

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

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

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

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

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

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

13. CHOICE OF LAW

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

GARO ELECTRIC IRL LTD.

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