

GEYER



Electrical Installation Solutions

2026

GEYER

2026

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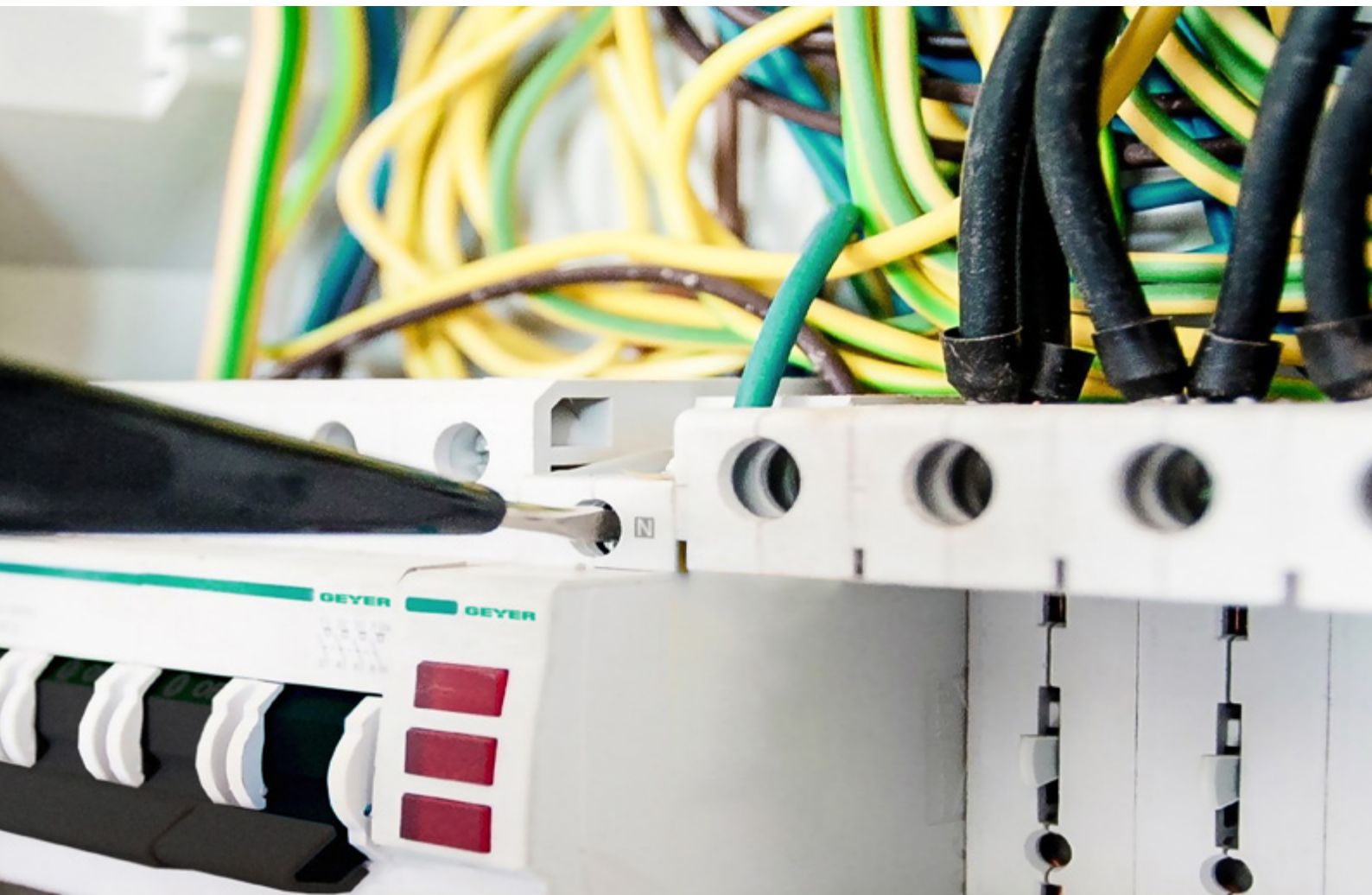
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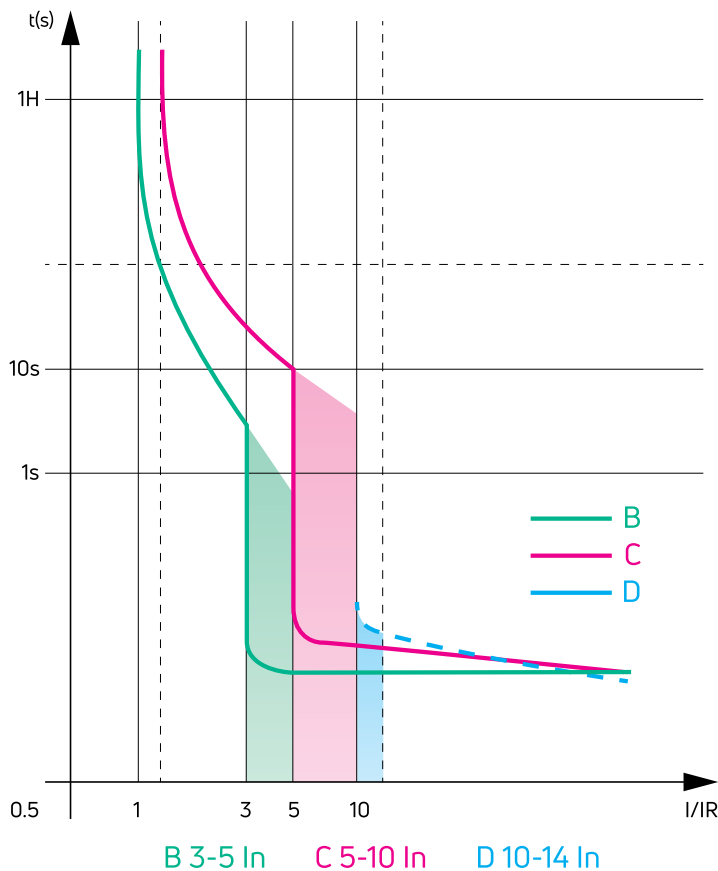
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CHAPTER A

Modular Devices



MCB's are mainly used to protect cables and equipment against overload and short circuit.

To suit different applications you have the option to choose from 2 characteristics.

GEYER MCB's are designed for DIN-rail mounting and have a facility which allows individual MCB's to be removed from the rail without the need to disconnect other devices connected to the busbar.

This feature provides a practical and convenient solution for mounting and servicing.

Release limits

Curves	Thermal release min. testing current	Thermal release min. testing current	Tripping characteristics t	Magnetic release min. testing current	Magnetic release min. testing current	Tripping characteristics
B	$1,13 \times I_N$		$\geq 1h$	$3 \times I_N$		$\geq 0,1s$
		$1,45 \times I_N$	$< 1h$		$5 \times I_N$	$< 0,1s$
C	$1,13 \times I_N$		$\geq 1h$	$5 \times I_N$		$\geq 0,1s$
		$1,45 \times I_N$	$< 1h$		$10 \times I_N$	$< 0,1s$

The influence of frequency on magnetic tripping characteristic

Frequency (Hz)	100	200	400	DC
Coefficient	1,1	1,2	1,5	1,5

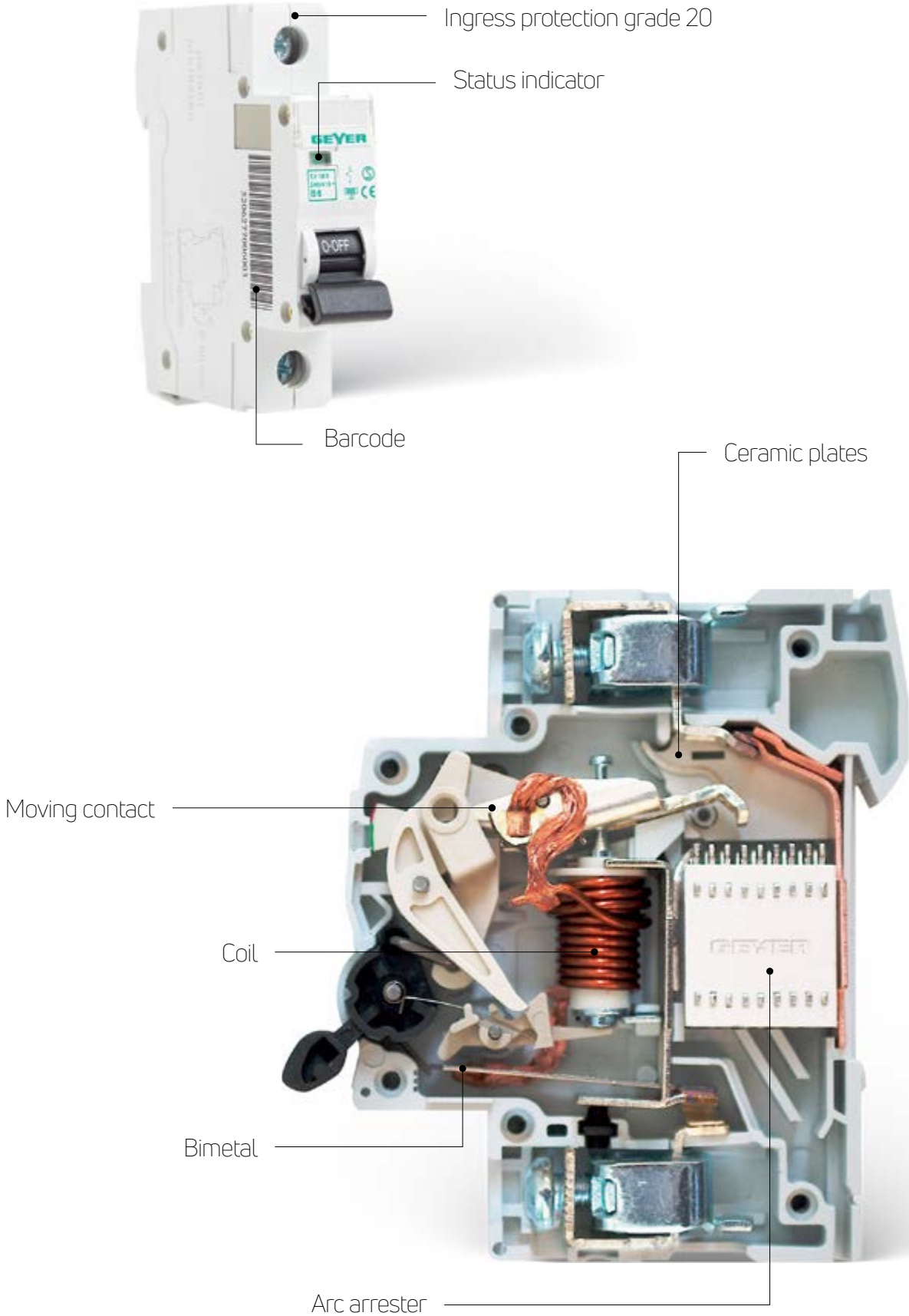
Miniature Circuit Breakers

MCB's with B-Curve are normally used for the protection of cables and equipment in domestic and light commercial applications e.g. normal lightning, sockets etc.

MCB's with C-Curve protect against overload and short circuit. Mainly to protect devices with a higher inrush-current e.g. motors and ballast lightning

Miniature Circuit Breakers

B & C Curve, IEC / EN 60898-1



MCB 1P B

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA102B	2	1	B	12
EA104B	4	1	B	12
EA106B	6	1	B	12
EA110B	10	1	B	12
EA116B	16	1	B	12
EA120B	20	1	B	12
EA125B	25	1	B	12
EA132B	32	1	B	12
EA140B	40	1	B	12
EA150B	50	1	B	12
EA163B	63	1	B	12

MCB 2P B

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA206B	6	2	B	6
EA210B	10	2	B	6
EA216B	16	2	B	6
EA220B	20	2	B	6
EA225B	25	2	B	6
EA232B	32	2	B	6
EA240B	40	2	B	6
EA250B	50	2	B	6
EA263B	63	2	B	6

MCB 3P B

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA306B	6	3	B	4
EA310B	10	3	B	4
EA316B	16	3	B	4
EA320B	20	3	B	4
EA325B	25	3	B	4
EA332B	32	3	B	4
EA340B	40	3	B	4
EA350B	50	3	B	4
EA363B	63	3	B	4

MCB 4P B



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA406B	6	4	B	3
EA410B	10	4	B	3
EA416B	16	4	B	3
EA420B	20	4	B	3
EA425B	25	4	B	3
EA432B	32	4	B	3
EA440B	40	4	B	3
EA450B	50	4	B	3
EA463B	63	4	B	3

MCB 1P+N B



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA106BN	6	2	B	6
EA110BN	10	2	B	6
EA116BN	16	2	B	6
EA120BN	20	2	B	6
EA125BN	25	2	B	6
EA132BN	32	2	B	6
EA140BN	40	2	B	6
EA150BN	50	2	B	6
EA163BN	63	2	B	6

MCB 3P+N B



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA306BN	6	4	B	3
EA310BN	10	4	B	3
EA316BN	16	4	B	3
EA320BN	20	4	B	3
EA325BN	25	4	B	3
EA332BN	32	4	B	3
EA340BN	40	4	B	3
EA350BN	50	4	B	3
EA363BN	63	4	B	3

MCB 1P+N B



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA106BN1	6	1	B	12
EA110BN1	10	1	B	12
EA116BN1	16	1	B	12
EA120BN1	20	1	B	12
EA125BN1	25	1	B	12
EA132BN1	32	1	B	12

MCB 1P C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA102C	2	1	C	12
EA104C	4	1	C	12
EA106C	6	1	C	12
EA110C	10	1	C	12
EA116C	16	1	C	12
EA120C	20	1	C	12
EA125C	25	1	C	12
EA132C	32	1	C	12
EA140C	40	1	C	12
EA150C	50	1	C	12
EA163C	63	1	C	12

MCB 2P C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA202C	2	2	C	6
EA204C	4	2	C	6
EA206C	6	2	C	6
EA210C	10	2	C	6
EA216C	16	2	C	6
EA220C	20	2	C	6
EA225C	25	2	C	6
EA232C	32	2	C	6
EA240C	40	2	C	6
EA250C	50	2	C	6
EA263C	63	2	C	6

MCB 3P C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA306C	6	3	C	4
EA310C	10	3	C	4
EA316C	16	3	C	4
EA320C	20	3	C	4
EA325C	25	3	C	4
EA332C	32	3	C	4
EA340C	40	3	C	4
EA350C	50	3	C	4
EA363C	63	3	C	4

MCB 4P C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA402C	2	4	C	3
EA404C	4	4	C	3
EA406C	6	4	C	3
EA410C	10	4	C	3
EA416C	16	4	C	3
EA420C	20	4	C	3
EA425C	25	4	C	3
EA432C	32	4	C	3
EA440C	40	4	C	3
EA450C	50	4	C	3
EA463C	63	4	C	3

MCB 1P+N C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA106CN	6	2	C	6
EA110CN	10	2	C	6
EA116CN	16	2	C	6
EA120CN	20	2	C	6
EA125CN	25	2	C	6
EA132CN	32	2	C	6
EA140CN	40	2	C	6
EA150CN	50	2	C	6
EA163CN	63	2	C	6

MCB 3P+N C

6kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA306CN	6	4	C	3
EA310CN	10	4	C	3
EA316CN	16	4	C	3
EA320CN	20	4	C	3
EA325CN	25	4	C	3
EA332CN	32	4	C	3
EA340CN	40	4	C	3
EA350CN	50	4	C	3
EA363CN	63	4	C	3

MCB 1P+N C

3kA



CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EA106CN1	6	1	C	12
EA110CN1	10	1	C	12
EA116CN1	16	1	C	12
EA120CN1	20	1	C	12
EA125CN1	25	1	C	12
EA132CN1	32	1	C	12

10kA



MCB Industrial Type 1P C

CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EH180C	80	1.5	C	12
EH100C	100	1.5	C	12
EH125C	125	1.5	C	12

10kA



MCB Industrial Type 3P C

CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EH380C	80	4.5	C	4
EH300C	100	4.5	C	4
EH325C	125	4.5	C	4

10kA



MCB Industrial Type 3P+N C

CODE	RATED CURRENT (A)	MODULES (18mm)	CURVE	
EH480C	80	6	C	3
EH400C	100	6	C	3
EH425C	125	6	C	3

Isolators 1P



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES125A	25	1	12
ES140A	40	1	12
ES163A	63	1	12
ES180A	80	1	12

Isolators 2P



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES225A	25	2	6
ES240A	40	2	6
ES263A	63	2	6

Isolators 3P



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES325A	25	3	4
ES340A	40	3	4
ES363A	63	3	4
ES380A	80	3	4
ES3100A	100	3	4
ES3125A	125	3	4

Isolators 3P+N



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES425A	25	4	3
ES440A	40	4	3
ES463A	63	4	3
ES480A	80	4	3
ES4100A	100	4	3
ES4125A	125	4	3

Change Over Switches 1P+N



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES240G	40	2	6
ES263G	63	2	6

Change Over Switches 3P+N



CODE	RATED CURRENT (A)	MODULES (18mm)	
ES440G	40	4	3
ES463G	63	4	3

Neozed D02 Load Switches



CODE	In	RATED AC VOLTAGE	POLES	MODULES (18mm)	
EP132T	32A	240VAC	1	1.5	6
EP163T	63A	240VAC	1	1.5	6
EP163TN	63A	240VAC	1+N	3	6

Includes cylindrical fuse D02

Neozed D02 Load Switches



CODE	In	RATED AC VOLTAGE	POLES	MODULES (18mm)	
EP332T	32A	415VAC	3	4.5	2
EP363T	63A	415VAC	3	4.5	2
EP363TN	63A	415VAC	3+N	6	1

Includes cylindrical fuse D02

6kA



RCCB 1P+N Sensitive to AC Residual Current (Type AC)

CODE	A/mA	MODULES (18mm)	
EF225DG	25/30	2	1
EF225GG	25/100	2	1
EF225EG	25/300	2	1
EF225FG	25/500	2	1
EF240DG	40/30	2	1
EF240GG	40/100	2	1
EF240EG	40/300	2	1
EF240FG	40/500	2	1
EF263DG	63/30	2	1
EF263GG	63/100	2	1
EF263EG	63/300	2	1
EF263FG	63/500	2	1
EF280GG	80/100	2	1

6kA



RCCB 3P+N Sensitive to AC Residual Current (Type AC)

CODE	A/mA	MODULES (18mm)	
EF425DG	25/30	4	1
EF425GG	25/100	4	1
EF425EG	25/300	4	1
EF425FG	25/500	4	1
EF440DG	40/30	4	1
EF440GG	40/100	4	1
EF440EG	40/300	4	1
EF440FG	40/500	4	1
EF463DG	63/30	4	1
EF463GG	63/100	4	1
EF463EG	63/300	4	1
EF463FG	63/500	4	1
EF480DG	80/30	4	1
EF480GG	80/100	4	1
EF480EG	80/300	4	1
EF480FG	80/500	4	1
EF4100DG	100/30	4	1
EF4100GG	100/100	4	1
EF4100EG	100/300	4	1
EF4100FG	100/500	4	1

6kA



RCCB 1P+N Sensitive to AC and Pulsating DC Residual Current (Type A)

CODE	A/mA	MODULES (18mm)	
EF240D	40/30	2	1
EF240G	40/100	2	1
EF240E	40/300	2	1
EF240F	40/500	2	1
EF263D	63/30	2	1
EF263G	63/100	2	1
EF263E	63/300	2	1
EF263F	63/500	2	1

6kA



RCCB 3P+N Sensitive to AC and Pulsating DC Residual Current (Type A)

CODE	A/mA	MODULES (18mm)	
EF440D	40/30	4	1
EF440G	40/100	4	1
EF440E	40/300	4	1
EF440F	40/500	4	1
EF463D	63/30	4	1
EF463G	63/100	4	1
EF463E	63/300	4	1
EF463F	63/500	4	1
EF480D	80/30	4	1
EF4100D	100/30	4	1

10kA

RCBO 1P+N Residual Current Circuit Breakers with Overcurrent Protection RCBOs

CODE	A/mA	MODULES (18mm)	CURVE	
EF206DMC	6/30	2	C	1
EF210DMC	10/30	2	C	1
EF216DMC	16/30	2	C	1
EF220DMC	20/30	2	C	1
EF225DMC	25/30	2	C	1
EF232DMC	32/30	2	C	1
EF240DMC	40/30	2	C	1

10kA

RCBO 3P+N Residual Current Circuit Breakers with Overcurrent Protection RCBOs

CODE	A/mA	MODULES (18mm)	CURVE	
EF406DMC	6/30	4	C	1
EF410DMC	10/30	4	C	1
EF416DMC	16/30	4	C	1
EF420DMC	20/30	4	C	1
EF432DMC	32/30	4	C	1
EF440DMC	40/30	4	C	1

6kA

RCBO 1P+N 1M Residual Current Circuit Breakers with Overcurrent Protection RCBOs

CODE	A/mA	MODULES (18mm)	CURVE	
EF116DB	16/30	1	B	1
EF106DC	6/30	1	C	1
EF110DC	10/30	1	C	1
EF116DC	16/30	1	C	1
EF120DC	20/30	1	C	1
EF125DC	25/30	1	C	1
EF132DC	32/30	1	C	1



LED Signal Light 1Ph 1M

CODE	COLOR	MODULES (18mm)	
EL12R	Red	1	12



LED Signal Light 3Ph 0.5M

CODE	COLOR	MODULES (18mm)	
EL302H	Red	0.5	20



Din Rail Socket

CODE	DESCRIPTION	MODULES (18mm)	
EL216D	DIN Rail Socket	2.5	5

Din Rail Bells

CODE	OUTPUT VOLTAGE	WATTAGE	dB	
EK008	8	6.4	45	12
EK012	12	6.4	45	12
EK024	24	6.4	45	12
EK200	230	6.4	45	12



Bell Transformer

CODE	INPUT VOLTAGE	OUTPUT VOLTAGE	
EK002	230V	8/12/24VAC 8VA	6



Energy Save Switch



CODE	VOLTAGE	OUTPUT RELAY	TIME DELAY	DRY CONTACTS	MODULES (18mm)	
ER420HS	220 -240V AC	2X20A	60s after card remove	5V	4	1



Electromechanical Timers



CODE	DESCRIPTION	MODULES (18mm)	MINIMUM INTERVAL	
ER111M	24H without reserve	1	15 minutes	1
ER211M	24H with reserve	1	15 minutes	1

Digital Timer



CODE	DESCRIPTION	MODULES (18mm)	MINIMUM INTERVAL	
201499	24H with reserve	1	15 minutes	1

Digital Time Switch



CODE	DESCRIPTION	MODULES (18mm)	MINIMUM INTERVAL	
ER371	24H with reserve	2	1 minute	1

2Ch Digital Astronomic Timer



CODE	DESCRIPTION	MODULES (18mm)	MINIMUM INTERVAL	
ER614L	Digital Astronomic Timer	2	1 minute	1

Staircase Time Switch



CODE	CONTACTS	MODULES (18mm)	SETTING RANGE APPROX.	
ER116L	1(A)	1	0.5" -20'	1


Wi-Fi Smart Switch


CODE	DESCRIPTION	MODULES (18mm)	
ER116W	Wi-Fi Smart Switch 16A 1M	1	1


Wi-Fi Smart Switch and Energy Meter


CODE	DESCRIPTION	MODULES (18mm)	
ER120WM	Wi-Fi Smart Switch and Energy Meter 20A	1	1


Wi-Fi Smart Switch and Energy Meter


CODE	DESCRIPTION	MODULES (18mm)	
ER140WM	Wi-Fi Smart Switch and Energy Meter 40A	1	1


Wi-Fi Smart Switch


CODE	DESCRIPTION	MODULES (18mm)	
ER316W	Wi-Fi Smart Switch 16A 1Ph 2M	2	1


Wi-Fi Smart Switch


CODE	DESCRIPTION	MODULES (18mm)	
ER516W	Wi-Fi Smart Switch 16A 1Ph 3M	3	1



Wi-Fi Smart Meter

CODE	DESCRIPTION	MODULES (18mm)	
ER160WM	Wi-Fi Smart Meter and Voltage Monitoring 1Ph 60A 2M	2	1



Wi-Fi Smart Meter

CODE	DESCRIPTION	MODULES (18mm)	
ER163CT	Wi-Fi Smart Meter and Voltage Monitoring with C/T 1Ph 63A 1M	1	1



Wi-Fi Smart Meter

CODE	DESCRIPTION	
ER3100CT	Wi-Fi Smart Meter and Voltage Monitoring with C/T 3Ph 100A 1M	1



Wi-Fi Smart Meter

CODE	DESCRIPTION	MODULES (18mm)	
ER4100WM	Wi-Fi Smart Meter and Voltage Monitoring 3Ph 100A 4M	4	1

Energy Meter 1Ph



CODE	DESCRIPTION	RATED (MAX) CURRENT A	MODULES (18mm)	
ER001E	Digital 1phase	0,25-5 (45)	1	1

Energy Meter 3Ph



CODE	DESCRIPTION	RATED (MAX) CURRENT A	MODULES (18mm)	
ER815	Digital 3phase	0,5-10 (100)	4	1





Contactors 2NO

CODE	RATED CURRENT IN (A) / COIL VOLTAGE (V) 50 HZ	MODULES (18mm)	
ER220A	20A 24VAC	1	1
ER220B	20A 220/240V AC	1	1
ER225B	25A 220/240V AC	1	1

Contactors 4NO



CODE	RATED CURRENT IN (A) / COIL VOLTAGE (V) 50 HZ	MODULES (18mm)	
ER325B	25A 220/240V AC	2,5	1
ER340B	40A 220/240V AC	3	1
ER363B	63A 220/240V AC	3	1



Double Stage ON DELAY

CODE	COIL VOLTAGE (V)	CONTACTS	RATED (MAX) CURRENT A	MODULES (18mm)	
SJR-2/UNI	12-240V AC/DC	2(C/O)	0,5-10 (100)	1	1



Power Relays Modular Type

CODE	COIL VOLTAGE (V)	CONTACTS	RATED (MAX) CURRENT A	MODULES (18mm)	
VS116K	230VAC	1(C/O)	16	1	1
VS116U	12-240V AC/DC	1(C/O)	16	1	1



Impulse Relays 1P

CODE	COIL VOLTAGE (V)	CONTACTS	MODULES (18mm)	
ER116FE2	12VAC	1NO	1	10
ER116FE4	24VAC	1NO	1	10
ER116FE9	230 VAC	1NO	1	10



Impulse Relays 2P

CODE	COIL VOLTAGE (V)	CONTACTS	MODULES (18mm)	
ER216FE2	12VAC	2NO	1	10
ER216FE4	24VAC	2NO	1	10
ER216FE9	230VAC	2NO	1	10

Monitoring Voltage Relay 1Ph



CODE	RATED CURRENT	SUPPLY VOLTAGE	LEVEL Umin /Umax	DESCRIPTION	OUTPUT INDICATION	MODULES (18mm)	
HRN-113	8A/AC1	150 - 275V	165 - 275V	1Ph monitoring voltage relay 1C/O, adjustable time delay	Red / Green	1	1
HRN-31	8A/AC1	48 - 267V	%max - 276V	1Ph monitoring voltage relay 1C/O, adjustable time delay	Red / Green	1	1

Digital Monitoring Voltage Relay 1Ph



CODE	RATED CURRENT	SUPPLY VOLTAGE	LEVEL Umin /Umax	DESCRIPTION	TIME RANGE	SCREEN	STEP	MODULES (18mm)	
HRN-163A	63A	230V	80 - 300V	Digital monitoring voltage relay 1Ph 220V 1NO 2M	0.1-600s	Digital	0.1-1 V/s/°C	2	1

Monitoring Voltage Relay 3Ph



CODE	RATED CURRENT	SUPPLY VOLTAGE	LEVEL Umin /Umax	DESCRIPTION	OUTPUT INDICATION	MODULES (18mm)	
HRN-337	8A/AC1	150 - 275V	154-312V	3Ph monitoring voltage relay 2C/O, adjustable time delay	Red / Green	1	1
HRN-57**	8A/AC1	48 - 267V	300-500V	3Ph monitoring voltage relay 1C/O, adjustable time delay	Red / Green	1	1
HRN-57N**	8A/AC1	48 - 267V	173-288V	3Ph monitoring voltage relay 1C/O, adjustable time delay	Red / Green	1	1

Supply L1, L2, L3

N means that relay monitors also failure of neutral wire.

Digital Monitoring Voltage Relay 3Ph



CODE	RATED CURRENT	SUPPLY VOLTAGE	LEVEL Umin /Umax	DESCRIPTION	TIME RANGE	SCREEN	STEP	MODULES (18mm)	
HRN-363A	63A	230V	80 - 300V	Digital monitoring voltage relay 3Ph 230V 63A 3NO 5M	01-600s	Digital	0.1-1 V/s/°C	5	1

Monitoring Voltage Relay 3Ph



CODE	RATED CURRENT	SUPPLY VOLTAGE	LEVEL Umin /Umax	DESCRIPTION	OUTPUT INDICATION	MODULES (18mm)	
HRN-55*	8A/AC1	400V	Fixed	3Ph monitoring voltage relay 1C/O, adjustable time delay, monitors phase sequence and failure	Red / Green	1	1
HRN-55N*	8A/AC1	182-277V	Fixed	3Ph monitoring voltage relay 1C/O, adjustable time delay	Red / Green	1	1

Supply L1, L2, L3

N means that relay monitors also failure of neutral wire.

50kA



NEOZED Fuse Links

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
ED01G06	D01	6A	400VAC	10/100
ED01G10	D01	10A	400VAC	10/100
ED01G16	D01	16A	400VAC	10/100
ED02G20	D02	20A	400VAC	10/50
ED02G25	D02	25A	400VAC	10/50
ED02G32	D02	32A	400VAC	10/50
ED02G40	D02	40A	400VAC	10/50
ED02G50	D02	50A	400VAC	10/50
ED02G63	D02	63A	400VAC	10/50



NEOZED Fuse Socket

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
EN116K	D01	16A	400VAC	20

includes ceramic cup



Ceramic Cup

CODE	TYPE	
EX14X	D01	20



NEOZED Fuse Socket

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
EN163K	D02	63A	400VAC	20

includes ceramic cup



Ceramic Cup

CODE	TYPE	
EX18X	D02	20



NEOZED Fuse Socket

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
EN316K	D02	16A	400VAC	1

includes ceramic socket



Ceramic Cup

CODE	TYPE	
EX14X	D02	20



NEOZED Fuse Socket

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
EN363K	D02	63A	400VAC	1

includes ceramic socket



Ceramic Cup

CODE	TYPE	
EX18X	D02	20



NEOZED Fuse Socket Without Fuse Carrier

CODE	TYPE	POLES	RATED CURRENT	RATED AC VOLTAGE	
002510021	D02	1	63A	400VAC	20



NEOZED Fuse Socket Without Fuse Carrier

CODE	TYPE	POLES	RATED CURRENT	RATED AC VOLTAGE	
002510023	D02	3	63A	400VAC	1

Cup for 2510021/3

CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
002232003	D02	63A	400VAC	1

AC Fuse Link 10x38



CODE	TYPE	RATED CURRENT	RATED AC VOLTAGE	
EACF06	10x38	6	500VAC	10/200
EACF10	10x38	10	500VAC	10/200
EACF16	10x38	16	500VAC	10/200
EACF20	10x38	20	500VAC	10/200
EACF25	10x38	25	500VAC	10/200
EACF32	10x38	32	500VAC	10/200

AC Fuse Disconnecter



CODE	POLES	RATED CURRENT	RATED AC VOLTAGE	MODULES (18mm)	
EAC132	1P	32A	690VAC	1	12
EAC132N	1P+N	32A	690VAC	2	6
EAC232	2P	32A	690VAC	2	6
EAC232CN	2P+N	32A	690VAC	3	6
EAC332	3P	32A	690VAC	3	4
EAC332N	3P+N	32A	690VAC	4	3

DTL HRC-Fuse-Load-Switches



CODE	DIMENSIONS	A	SIZE	
DTL160	107x169x84	160	0	1
DTL250	185x251x114	250	1	1
DTL400	210x288x129	400	2	1
DTL630	256x299x143	630	3	1

NH Fuse Links



CODE	DESCRIPTION	
GNH163A	DIN NH2 Fuse link 63A	3
GNH180A	DIN NH2 Fuse link 80A	3
GNH263A	DIN NH2 Fuse link 63A	3
GNH280A	DIN NH2 Fuse link 80A	3
GNH2100A	DIN NH2 Fuse link 100A	3
GNH2125A	DIN NH2 Fuse link 125A	3
GNH2160A	DIN NH2 Fuse link 60A	3
GNH2200A	DIN NH2 Fuse link 200A	3
GNH2250A	DIN NH2 Fuse link 250A	3
GNH2315A	DIN NH2 Fuse link 315A	3
GNH2400A	DIN NH2 Fuse link 400A	3
GBNH1250A	250A Fuse base NH1	3
GBNH2400A	400A Fuse base NH1	3

This fuse link is mainly used in AC50Hz, rated voltage up to 500V, rated current up to 400A and for protecting electric equipment from overload and short-circuit (type gG). Rated breaking capacity 50kA



Lighting - Voltage spike

Lightning is a naturally occurring electrostatic discharge during which two electrically charged regions in the atmosphere or ground temporarily equalize themselves, causing the instantaneous release of as much as one gigajoule of energy. This discharge may produce a wide range of electromagnetic radiation, from very hot plasma created by the rapid movement of electrons to brilliant flashes of visible light in the form of black-body radiation. Lightning causes thunder, a sound from the shock wave which develops as gases in the vicinity of the discharge experience a sudden increase in pressure. Lightning occurs commonly during thunderstorms and other types of energetic weather systems, but volcanic lightning can also occur during volcanic eruptions

Result of lightning

The most recognizable source of surges generated outside the facility is lightning. Although lightning can be somewhat infrequent in certain regions, the damage it can cause to a facility can be catastrophic. Other areas are subjected to thunderstorms and lightning much more frequently.

The surges that are the result of lightning can either be from direct contact of the lightning to a facilities electrical system or, more commonly, indirect or nearby lightning that induces electrical surges onto the power or communication systems. Either scenario can be immediately damaging to the electrical system and/or the connected loads.

Protection

A surge protector (SPD) is a device designed to protect electrical devices from voltage spikes and a protective device for limiting transient voltages by diverting or limiting surge current and is capable of repeating these functions as specified

Wave form 10/350µs: Crest value of the current that circulates in the SPD with a 10/350µs waveform (activation must be guaranteed for 20 times without damage). It is used to classify SPDs in test class I.

Waveform: 8/20µs: Crest value of the current that circulates in the SPD with an (8/20µs waveform (activation must be guaranteed for 20 times without damage). It is used to classify SPDs in test class II.

Typical component typologies used in SPDs

L/N

 PE

- SPD comprising metal oxide varistor
- No problems with following current IF
- Quick response time t_A (25µs) means low residual voltage
- Responds well to very low overvoltages
- High surge capacity, up to 50kA 10/350µs

N

 PE

- SPD comprising gas discharge tube
- High surge capacity 100kA 10/350µs
- No exhausting of ionised gases
- Used in TT systems as galvanic separation between N-PE conductors

L/N

 PE

- SPD comprising series arrangement of varistor and gas discharge tube
- No following current IF
- Quick response time t_A (25µs) means low residual voltage
- Responds well to low overvoltages
- High surge capacity, up to 25kA 10/350µs

Surge Protective Device Type Application Considerations

For the correct choice of the SPD, the dielectric strength of the equipment to protect needs to be considered. This level is established by IEC 60664-1 standard.

INSTALLATION CATEGORY	IMPULSE WITHSTAND VOLTAGE OF EQUIPMENT	DESCRIPTION
Type 1	6kV	for devices installed upstream of the distribution board (for example, delivery point with the distribution system)
Type 2	4kV	for devices being part of the fixed system (for example, distribution boards, switching devices, isolators, ducting and their accessories)
Type 2	2.5kV	for non electronic devices (for example, household appliances or electric tools)
Type 3	1.5kV	for equipment containing "particularly sensitive" electronic circuits (for example, electronic devices like PCs or TVs)

SPD types

Table below provide type of spds according to their protection

EN 61643-11	IEC 61643-1	SCOPE
Type 1	Class 1	Surge Protection Devices
Type 2	Class 2	Overvoltage for distribution boards
Type 2	Class 3	IT

Type 1 SPD

Permanently connected, hard-wired SPDs intended for installation between the secondary of the service transformer and the line side of the main service equipment overcurrent protective device, as well as the load side of the main service equipment (i.e. Type 1's can be installed anywhere within the distribution system).

Type 2 SPD

Permanently connected, hard-wired SPDs intended for installation on the load side of the main service equipment overcurrent protective device. These SPDs may also be installed at the main service equipment, but must be installed on the load side of the main service overcurrent protective device. Type 2 SPDs may or may not require an overcurrent protection device per their NRTL listing. If a specific overcurrent protection is required, the SPD's NRTL listing file and labeling/instructions are required to note the size and type of overcurrent protective device. Note: In some cases the overcurrent protective device used can impact the nominal discharge rating of the SPD.

Type 3 SPD

These SPDs are called, 'Point of Utilization SPDs', which are to be installed at a minimum conductor length of 10 meter (30 feet) from the electrical service panel unless they are evaluated at Type 2 SPDs (that is, they receive a Nominal Discharge Current Rating of 3 kA minimum). Typically, these are cord-connected surge strips, direct plug-in SPDs, or receptacle-type SPDs installed at the utilization equipment being protected (i.e. computers, copy machines, etc.).

DC SPD

In photovoltaic applications in a domestic environment or industrial facility or other similar circumstances, equipped with lightning rod systems having a safety distance (S), SPD type 2, suitable for DC duty, can be used to protect the installation. It is advisable to install these devices as close as possible to the photovoltaic panels, consequently in the so-called string boards. If the AC/DC inverter is far away from the string boards (indicatively more than 10m), another SPD type 2 DC needs to be installed next to the inverter on the DC side. Installation of SPD type 2 suitable of AC duty is also required downstream of the inverter on the AC side.



AC SPD

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500773	T1+T2	1	1	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts



AC SPD

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500759	T1+T2	1P+N	2	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts



AC SPD

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500760	T1+T2	3	3	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts



AC SPD

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500762	T1+T2	3P+N	4	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts

Core AC SPD



CODE	TYPE	MODULES	Uc	In	I _{max}	Up	
500777	T1+T2	1	275VAC	20kA per pole	40kA per pole	1,8kV	12

DC SPD



CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	
501654	T1+T2	2	2	600VDC	20kA per pole	40kA per pole	1
501655	T1+T2	2	2	1000VDC	20kA per pole	40kA per pole	1

* Remote contacts

Core DC SPD



CODE	TYPE	MODULES	Uc	In	I _{max}	
500775	T1+T2	1	500/600VDC	20kA per pole	40kA per pole	12
500776	T1+T2	1	1000VDC	20kA per pole	40kA per pole	12







CHAPTER B

Photovoltaic

System Protection



Solar panel systems absorb and convert the energy-packed photons of natural sunlight into a usable energy form. A high-quality solar power system can reduce or eliminate dependence on the community power grid that supplies electricity to light, heat, cool, and operate your home.

A residential solar power system installation is a clean, renewable energy source that requires minimal maintenance with savings that may pay back the initial investment in just a few years. Once your solar system is paid off, you will have decades of free energy. **GEYER** offers a variety of components in order your solar to operate for those decades uninterrupted.

DC fuses and links

A range of 10x38mm fuse links specifically designed for protecting photovoltaic strings. These fuse links are capable of interrupting low overcurrents associated with faulted photovoltaic string arrays (reverse current, multi-array fault).

DC isolator

Within the solar installation is the inverter which receives Direct current (DC) from solar strings as input and puts out Alternating Current (AC) to the grid on the output end. During installation, routine maintenance and emergencies it is necessary to isolate the panels from the AC side, and hence, a manually operated isolating switch is placed between the panels and the inverter input. Such a switch is called a DC isolator because it provides DC isolation between the photovoltaic panels and the rest of the system.

A DC isolator can be single pole or double pole. A single pole isolator can be used when a grounded array is to supply a transformer based inverter (inverter feeds the grid through an isolating transformer). When an ungrounded array is required to feed a transformer-less inverter, a double pole DC isolator switch is required. Models of isolators are also available which have an AC isolator in addition to a DC isolator. The switch must be rated to handle approximately 20% above the open circuit array voltage, and 25% above short circuit current of the array. This margin is considered necessary because interrupting DC is more difficult than interrupting AC.

SPD

SPD surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the DC networks to be protected and provide common and different modes protection. Its installed location are recommended at both ends of the DC power supply line (solar panel side and inverter/converter side), especially if the line routing is external and long.

An SPD is needed for each group of strings within the combiner box, the recombiner box, as well as the dc disconnect. High energy MOVs equipped with specific thermal disconnectors and related failure indicators.

RCCB

In the event of a short to earth the residual current operated system prevents shockhazard voltages from remaining on the body of Safety Class 1 electrical equipment or machines.

For this purpose, the residual current circuit breaker (RCCB) monitors the difference between the loads flowing through it and ensures that it is approximately zero. If, as result of an earth fault, this difference exceeds the circuit breakers residual operating current rating $I_{\Delta n}$, then the RCCB will disconnect the faulty equipment

Distribution boards

In a common grid-tie solar system, AC electricity from the solar inverter is sent to the distribution board where it is drawn into the various circuits and appliances in your home. Distribution boards are surface mounted and offer protection degree against intrusion, dust, accidental contact, and water of IP65.



SPD AC 1P | 1P+N Type T1 + T2

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500773	T1+T2	1	1	275VAC	20kA per pole	40kA per pole	125A gl	1
500759	T1+T2	1P+N	2	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts



SPD AC 3P | 3P+N Type T1 + T2

CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	BACKUP FUSE gL	
500760	T1+T2	3	3	275VAC	20kA per pole	40kA per pole	125A gl	1
500762	T1+T2	3P+N	4	275VAC	20kA per pole	40kA per pole	125A gl	1

* Remote contacts



Core AC SPD

CODE	TYPE	MODULES	Uc	In	I _{max}	Up	
500777	T1+T2	1	275VAC	20kA per pole	40kA per pole	1,8kV	12

SPD DC 2P Type T1 + T2



CODE	TYPE	POLES	MODULES	Uc	In	I _{max}	
501654	T1+T2	2	2	500/600VDC	20kA per pole	40kA per pole	1
501655	T1+T2	2	2	1000VDC	20kA per pole	40kA per pole	1

* Remote contacts



Core DC SPD

CODE	TYPE	MODULES	Uc	In	I _{max}	
500775	T1+T2	1	500/600VDC	20kA per pole	40kA per pole	12
500776	T1+T2	1	1000VDC	20kA per pole	40kA per pole	12



DC Fuse Disconnecter

CODE	POLES	RATED CURRENT	RATED AC VOLTAGE	MODULES (18mm)	
EDC132	1P	32A	690 VDC	1	10
EDC232	2P	32A	690 VDC	2	6



DC Fuse Link 10x38

CODE	TYPE	RATED CURRENT	I _{max}	RATED AC VOLTAGE	
EDCF06	10X38mm	6A	30kA	1000 VDC	10
EDCF10	10X38mm	10A	30kA	1000 VDC	10
EDCF12	10X38mm	12A	30kA	1000 VDC	10
EDCF16	10X38mm	16A	30kA	1000 VDC	10
EDCF20	10X38mm	20A	30kA	1000 VDC	10



DC Switch Disconnecter

CODE	RATED CURRENT	RATED AC VOLTAGE	MODULES (18mm)	
LS16SMAA2	16A	500VDC	2,5	1
LS16SMAA4	16A	1000VDC	3,5	1
LS25SMAA2	25A	500VDC	2,5	1
LS25SMAA4	25A	1000VDC	3,5	1
LS32SMAA2	32A	500VDC	2,5	1
LS32SMAA4	32A	1000VDC	3,5	1

DC Distribution Boards 1000V



CODE	DESCRIPTION	
VWDCCX100	DC Distribution Board 1000V 1MPPT / 1 string without isolator IP65	1
VWDCCD100	DC Distribution Board 1000V 1MPPT / 1 string with isolator IP65	1
VWDCCX110	DC Distribution Board 1000V 2MPPT / 1 string without isolator IP65	1
VWDCCD110	DC Distribution Board 1000V 2MPPT / 1 string with isolator IP65	1
VWDCCX111	DC Distribution Board 1000V 3MPPT / 1 string without isolator IP65	1
VWDCCD111	DC Distribution Board 1000V 3MPPT / 1 string with isolator IP65	1
VWDCCX200	DC Distribution Board 1000V 1MPPT / 2 string without isolator IP65	1
VWDCCD200	DC Distribution Board 1000V 1MPPT / 2 string with isolator IP65	1
VWDCCX220	DC Distribution Board 1000V 2MPPT / 2 string without isolator IP65	1
VWDCCD220	DC Distribution Board 1000V 2MPPT / 2 string with isolator IP65	1
VWDCCX222	DC Distribution Board 1000V 3MPPT / 2 string without isolator IP65	1
VWDCCD222	DC Distribution Board 1000V 3MPPT / 2 string with isolator IP65	1

AC Distribution Boards



CODE	DESCRIPTION	
VWACCX101	AC Distribution Board for solar system up to 10kW IP65	1
VWACCX201	AC Distribution Board for solar system up to 20kW IP65	1
VWACCX301	AC Distribution Board for solar system up to 30kW IP65	1
VWACCX401	AC Distribution Board for solar system up to 40kW IP65	1
VWACCX501	AC Distribution Board for solar system up to 50kW IP65	1

GEYER





CHAPTER C

Distribution

Boards & Cabinets

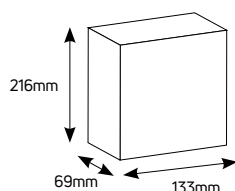


***Hollow wall holders**



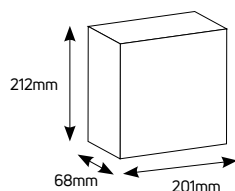
Athos 1x4

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP04-T	Glazed Door	2x8	1/5



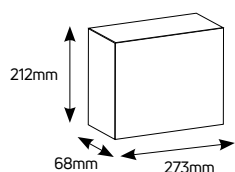
Athos 1x8

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP08-T	Glazed Door	2x8	1/5



Athos 1x12

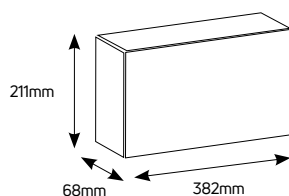
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP12-T	Glazed Door	2x10	1/5



Athos 1x18



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP18-T	Glazed Door	2x13	1/5

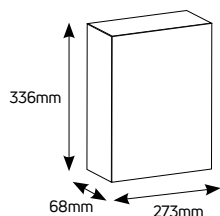


* Dimensions for recess (depth)

Athos 2x12



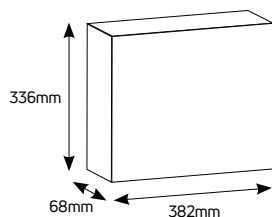
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP24-T	Glazed Door	2x13	1/5



Athos 2x18



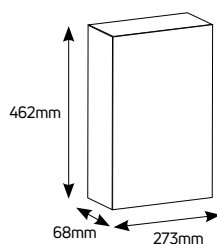
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP2x18-T	Glazed Door	2x13	1/5





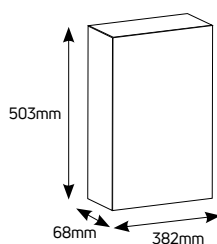
Athos 3x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP36-T	Glazed Door	2x15	1/5



Athos 3x18

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VP3x18-T	Glazed Door	2x26	1/5



* Dimensions for recess (depth)

Lock for Athos Distribution Board



CODE	DESCRIPTION	
VS.VPL	For VS/VP distribution boards	1

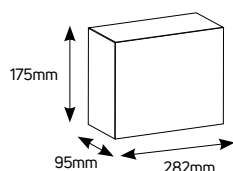


***Hollow wall holders**



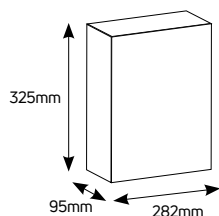
Delta 1x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU142	Full Metal Door	2x8	1
VU142G	Glazed door	2x8	1



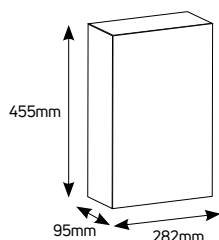
Delta 2x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU243	Full Metal Door	2x12	1
VU243G	Glazed door	2x12	1



Delta 3x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU344	Full Metal Door	2x16	1
VU344G	Glazed door	2x16	1



* Dimensions for recess (depth)



Cover Strips

CODE	DESCRIPTION	
48862	Cover Strips for DELTA series	100

Accessories - Outer Frame with Door and Spring Catch (for replacement)



CODE	DESCRIPTION	
142	Full Metal Door for VU142	1
142G	Glazed door for VU142G	1
243	Full Metal Door for VU243	1
243G	Glazed door for VU243G	1
344	Full Metal Door for VU344	1
344G	Glazed door for VU344G	1

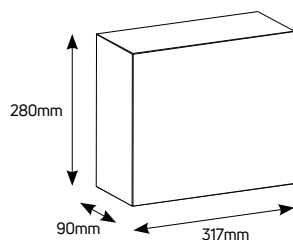


***Hollow wall holders**

Olympus 1x12



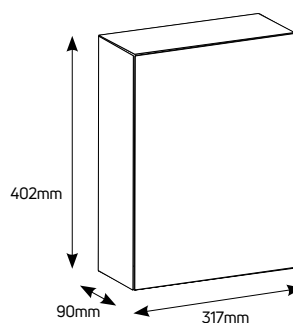
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VU131	Full Metal Door	2x12	1
VU131G	Glazed door	2x12	1
VU131P	Full Metal Door and Insulated Terminals	2x12	1
VU131PG	Glazed flush door and Insulated Terminals	2x12	1



Olympus 2x12



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU232	Full Metal Door	2x16	1
VU232G	Glazed door	2x16	1
VU232P	Full Metal Door and Insulated Terminals	2x16	1
VU232PG	Glazed flush door and Insulated Terminals	2x16	1

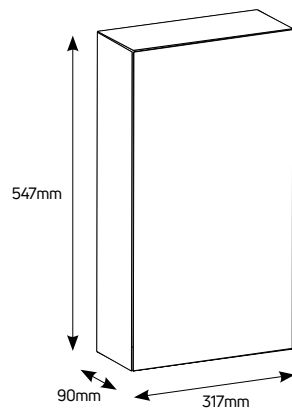


* Dimensions for recess (depth)

Olympus 3x12



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU333	Full Metal Door	2x21	1
VU333G	Glazed door	2x21	1
VU333P	Full Metal Door and Insulated Terminals	2x21	1
VU333PG	Glazed flush door and Insulated Terminals	2x21	1



Cover Strips



CODE	DESCRIPTION	
48862U	Cover Strips for all distribution boards	100

Accessories - Outer Frame with Door and Spring Catch (for replacement)



CODE	DESCRIPTION	
131	Full Metal Door for VU131	1
131G	Glazed flush door for VU131G	1
232	Full Metal Door for VU232	1
232G	Glazed flush door for VU232G	1
333	Full Metal Door for VU333	1
333G	Glazed flush door for VU333G	1

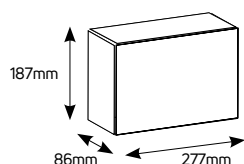
* Dimensions for recess (depth)





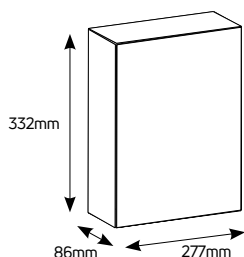
Heracles 1x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU142M	Full Metal Door	2x8	1
VU142GM	Glazed door	2x8	1



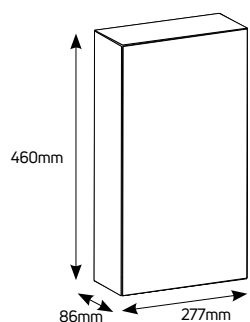
Heracles 2x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU243M	Full Metal Door	2x12	1
VU243GM	Glazed door	2x12	1



Heracles 3x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU344M	Full Metal Door	2x16	1
VU344GM	Glazed door	2x16	1



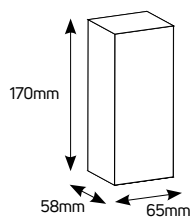
* Dimensions for recess (depth)



Dirfi 1x2



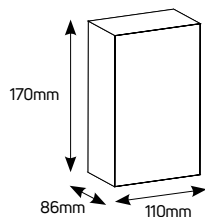
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU102	without Door	2x4	16
VU102G	Glazed Lid	2x4	16



Dirfi 1x4



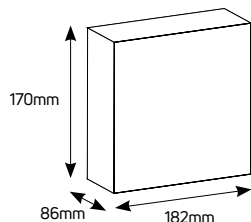
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU104G	Glazed Lid	2x4	10



Dirfi 1x8



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU111	Full Metal Door	2x8	1
VU111G	Glazed flush door	2x8	1



Accessories - Outer Frame with Door and Spring Catch (for replacement)



CODE	DESCRIPTION	
111D	Full Metal Door for VU111	1
111G	Glazed flush door for VU111G	1

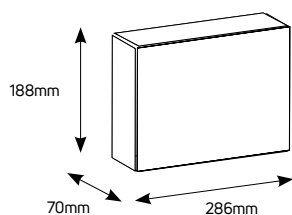
* Dimensions for recess (depth)



Vario 1x12



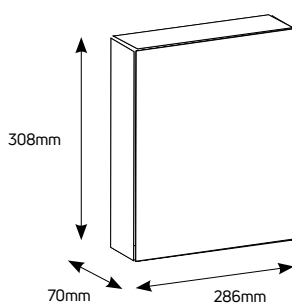
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU117E	For single brick with elevated glazed door	2x8	1



Vario 2x12



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VU217E	For single brick with elevated glazed door	2x8	1



*** Dimensions for recess (depth)**

Cover Strips



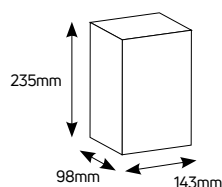
CODE	DESCRIPTION	
48862	Cover Strips for DELTA series	100





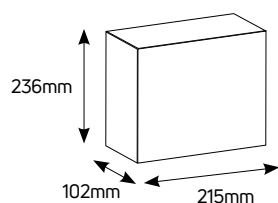
Aenos 1x4

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS04-T	Glazed door	2x4	1



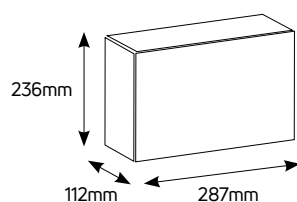
Aenos 1x8

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS08-T	Glazed door	2x8	1



Aenos 1x12

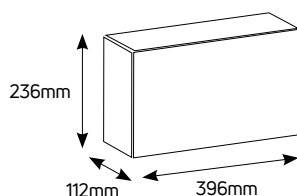
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS12-T	Glazed door	2x10	1





Aenos 1x18

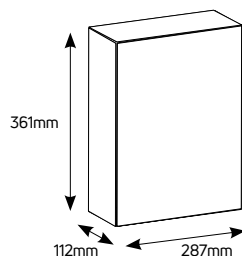
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS18-T	Glazed door	2x13	1



Aenos 2x12



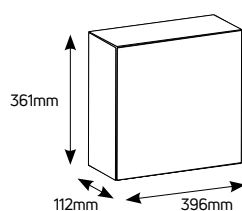
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS24-T	Glazed door	2x13	1



Aenos 2x18



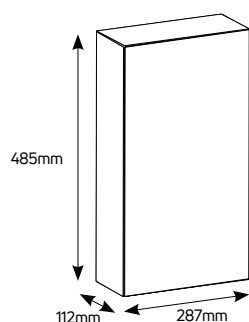
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS2x18-T	Glazed door	2x13	1



Aenos 3x12



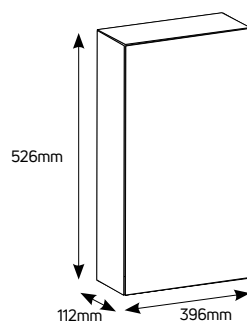
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS36-T	Glazed door	2x15	1



Aenos 3x18



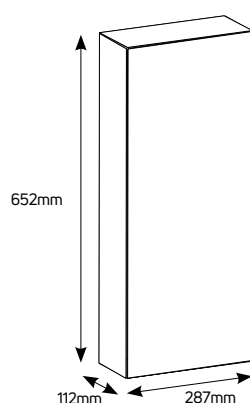
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS3x18-T	Glazed door	2x26	1



Aenos 4x12



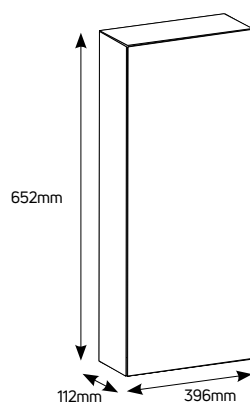
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS48-T	Glazed door	2x20	1



Aenos 4x18



CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VS4x18-T	Glazed door	2x30	1



Lock for Aenos Distribution Board



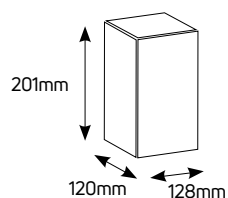
CODE	DESCRIPTION	
VS.VP.L	For VS/VP distribution boards	1



VW 1x4



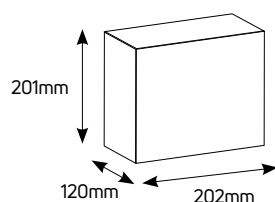
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW04-T	Glazed door	2x4	1



VW 1x8



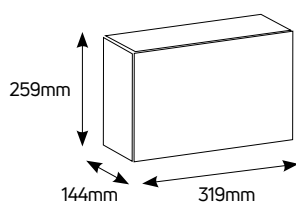
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW08-T	Glazed door	2x8	1



VW 1x12



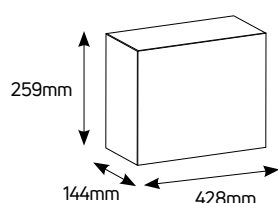
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW12-T	Glazed door	2x10	1



VW 1x18



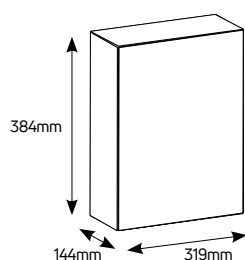
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW18-T	Glazed door	2x13	1



VW 2x12



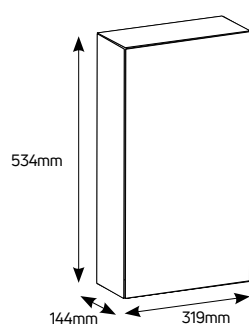
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW24-T	Glazed door	2x15	1



VW 3x12



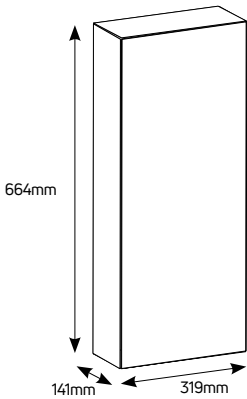
CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW36-T	Glazed door	2x15	1





VW 4x12

CODE	DESCRIPTION	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VW48-T	Glazed door	2x20	1



Lock for VW Distribution Board

CODE	DESCRIPTION	
VS.VP.L	For VS/VP distribution boards	1

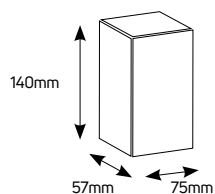


W/O base:
VA 107G, VA208, VA309G

Ossa 1x4



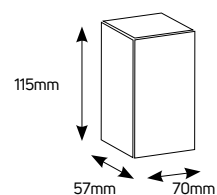
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA102	1x4	-	10
VA102A	1x4	1x4	10
VA102B	1x4	2x4	10



Ossa 1x2



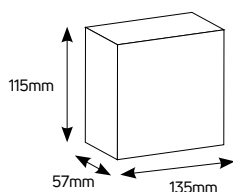
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA104	1x2	2x4	10



Ossa 1x6



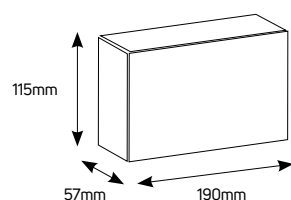
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA105	1x6	2x4	10



Ossa 1x9



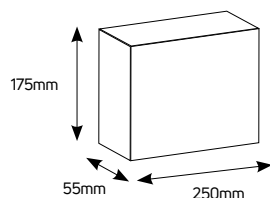
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA106	1x9	2x4	5



Ossa 1x12



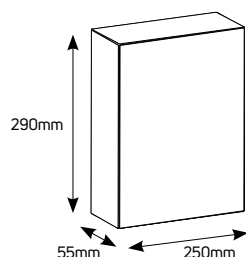
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA107	1x12	2x8	1



Ossa 2x12



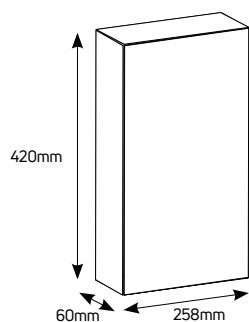
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA208	2x12	2x8	1



Ossa 3x12



CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA309	3x12	2x8	1

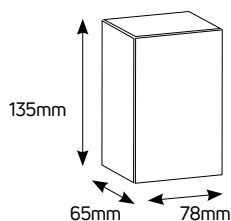




Idi without Lid 1x2



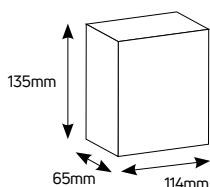
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA02	1x2	2x4	15



Idi without Lid 1x4



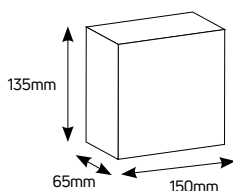
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA04	1x4	2x4	15



Idi without Lid 1x6



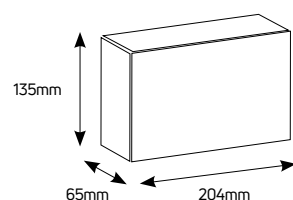
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA06	1x6	2x4	15



Idi without Lid 1x9



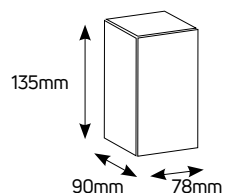
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA09	1x9	2x4	15



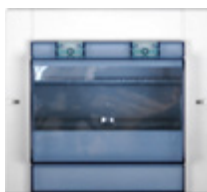
Idi with Glazed Lid 1x2



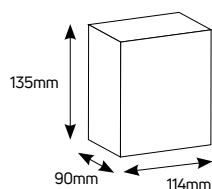
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA02G	1x2	2x4	10



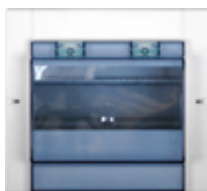
Idi with Glazed Lid 1x4



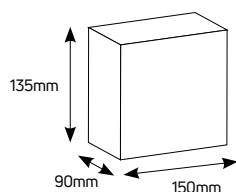
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA04G	1x4	2x4	10



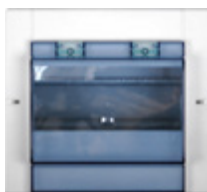
Idi with Glazed Lid 1x6



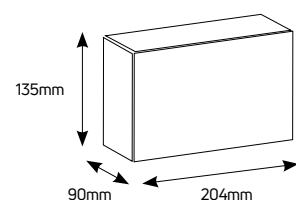
CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA06G	1x6	2x4	10



Idi with Glazed Lid 1x9



CODE	MODULES (18mm)	EARTH(PE) / NEUTRAL(N) - TERMINALS	
VA09G	1x9	2x4	10









Surface Mounted Distribution Board

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
61402FD	Surface mounted distribution board 1x8M reset flaps IP65	245x165x135	1



Surface Mounted Distribution Board

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
6129FD	Surface mounted distribution board 1x12M reset flaps IP65	335x210x175	1



Surface Mounted Distribution Board

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
61101FD	Surface mounted distribution board 2x12M reset flaps IP65	615x290x195	1

IP55



Round Junction Boxes

CODE	DIAMETER	DEPTH	
VAR50	Ø50	50mm	1
VAR80	Ø80	50mm	1

IP65



Square - Rectangular Junction Boxes

CODE	DIMENSIONS (WxHxD mm)	PLUGS	
VAS80*	80x80x50mm	7	1
VAS85	85x85x50mm	7	1
VAS100	100x100x70mm	7	1
VAS150110	150x110x70mm	7	1

* IP55

IP65



Square - Rectangular Junction Boxes

CODE	DIMENSIONS (WxHxD mm)	PLUGS	
VAS150	150x150x70mm	10	1
VAS200155	200x155x80mm	10	1

IP65



Square - Rectangular Junction Boxes

CODE	DIMENSIONS (WxHxD mm)	PLUGS	
VAS200100	200x100x70mm	8	1

IP65



Square - Rectangular Junction Boxes

CODE	DIMENSIONS (WxHxD mm)	PLUGS	
VAS200	200x200x80mm	12	1
VAS255200	255x200x80mm	12	1
VAS300250	300x250x120mm	12	1

IP65



Square - Rectangular Junction Boxes

CODE	DIMENSIONS (WxHxD mm)	PLUGS	
VAS400350	400x350x120mm	16	1

Busbars - Fork

CODE	DESCRIPTION	
52881	Single pole, 12 modules	20

Insulated Busbars - Prong / Fork

CODE	DESCRIPTION	
52881X	Insulated Single Pole Busbars - Pin, 12 modules	50/500
52882	Single pole, 1 meter	50
64719	Insulated single pole, Pin 1 meter	10/100
64720	Insulated triple pole, 12 modules	5/200
64721	Insulated Triple Pole Busbars -Fork, 1m	10/100
64722	Insulated busbar fork type 1P 63A 12M	20/200
64723	Insulated busbar fork type 1P 63A 1meter	20/100
64895	Insulated busbar pin type 1P+N 63A 12M	10/200

Cover Strips

CODE	DESCRIPTION	
48862	Cover Strips, breakable, for Distr. Board Delta	100
48862U	Cover Strips, breakable, for Distr. Board (except of Delta)	100

Earth/Neutral Terminals (for replacement) Flush Mounting Type

CODE	DESCRIPTION	
44962AB	8 screws Neutral terminals	1
44962AY	8 screws Earth terminals	1
44246AB	13 screws Neutral terminals	1
44246AY	13 screws Earth terminals	1
49247AB	17 screws Neutral terminals	1
49247AY	17 screws Earth terminals	1

Locks

CODE	DESCRIPTION	
VS.VP.L	For VS/VP distribution boards	1
VW.VP.L	For VW distribution boards	1

Accessories - Outer Frame with Door and Spring Catch (for replacement)



CODE	DESCRIPTION	
142	Full Metal Door for VU142	1
142G	Glazed flush door for VU142G	1
243	Full Metal Door for VU243	1
243G	Glazed flush door for VU243G	1
344	Full Metal Door for VU344	1
344G	Glazed flush door for VU344G	1
131	Full Metal Door for VU131	1
131G	Glazed flush door for VU131G	1
232	Full Metal Door for VU232	1
232G	Glazed flush door for VU232G	1
333	Full Metal Door for VU333	1
333G	Glazed flush door for VU333G	1
111D	Full Metal Door for VU111	1
111G	Glazed flush door for VU111G	1
117E	Glazed flush door for VU117E	1
217E	Glazed flush door for VU217E	1
65606G	Frame for VU117E	1
65607G	Frame for VU217E	1





CHAPTER D

Preassembled

Standard Distribution Boards

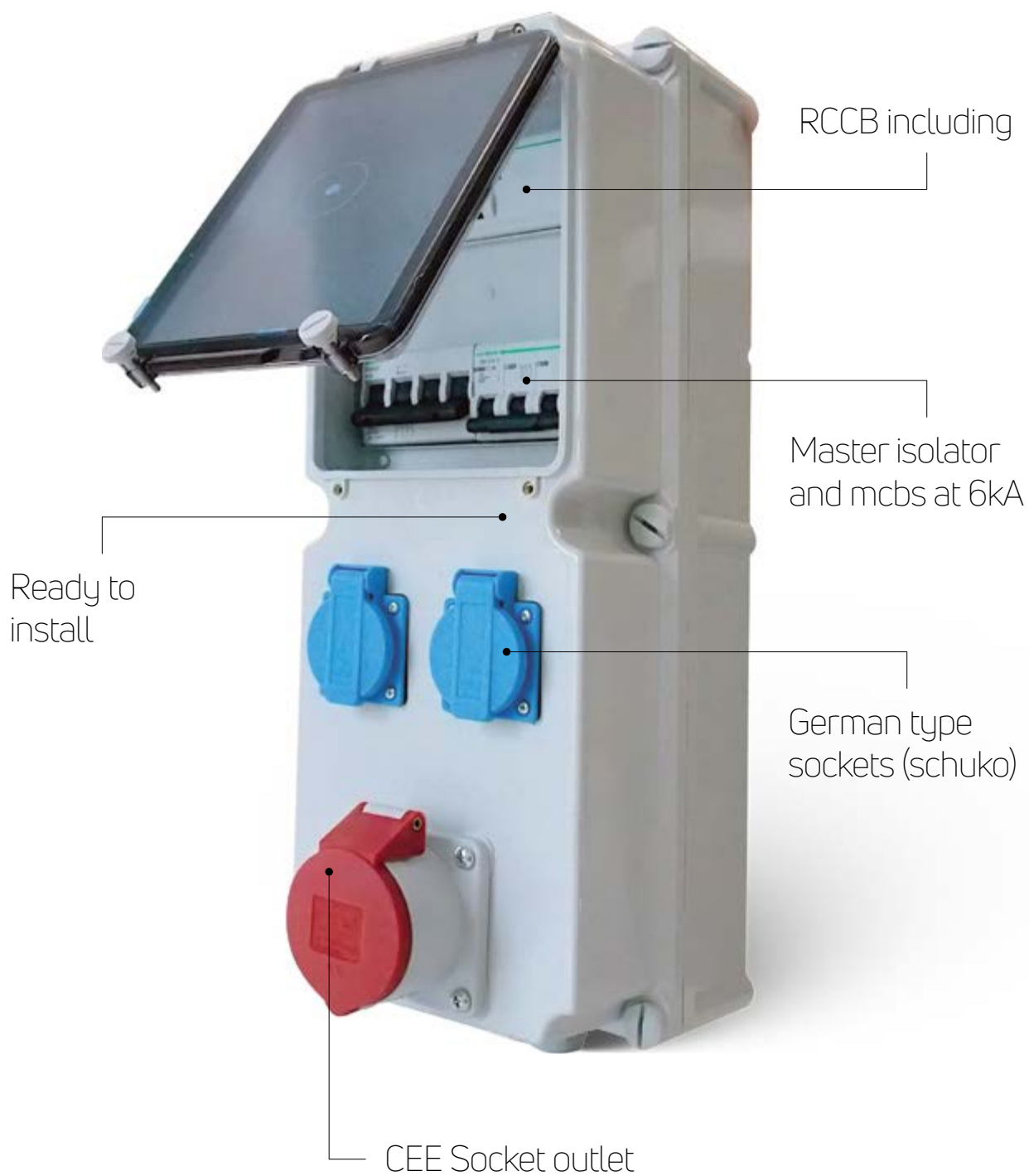


Vario, Single phase, 5 lines

Distribution Board contains: 1 x RCCB 40A, 1 x Isolator 40A, 1 x mcb + isolator 20A, 1 x mcb + isolator 25A, 2 x Pilot Lamps, 2 x mcb 10A, 1 x mcb 16A

CODE	WAY	
VU217ER	2x12	1

* Photo is only as a reference





Compact Plastic IP44

CODE	DESCRIPTION	DIMENSIONS (WxHxD)	
VF120	Distribution Board contains: 1 x RCCB 40A, 2p., 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 1 x mcb 32A, 1p., C curve, 1 x mcb 16A, 1p., C curve, 2 x socket outlet, straight, System F German standard (schuko)	163x264x131	1
VF140	Distribution Board contains: 1 x RCCB 40A, 2p., 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 1 x mcb 32A, 1p., C curve, 1 x mcb 16A, 1p., C curve, 4 x socket outlet, straight, System F German standard (schuko)	163x264x131	1

* Photo is only as a reference



Compact Plastic IP44

CODE	DESCRIPTION	DIMENSIONS (WxHxD)	
VF221	Distribution Board contains: 1 x RCCB 40A, 4p., 1 x Isolator 40A, 4p., 1 x Signal Light, 1/2p., 3 x mcb 40A, 1p., C curve, 2 x mcb 16A, 1p., C curve, 1 x mcb 16A, 3p., C Curve, 2 x socket outlet, straight, System F German standard (schuko), 1 x 3p+N+PE Panel mounting socket outlet, straight	180x460x171	1

* Photo is only as a reference



Compact Plastic IP44

CODE	DESCRIPTION	DIMENSIONS (WxHxD)	
VF322	Distribution Board contains: 1 x RCCB 40A, 4p., 1 x Isolator 40A, 4p., 1 x Signal Light, 1/2p., 3 x mcb 40A, 1p., C curve, 2 x mcb 16A, 1p., C curve, 2 x mcb 16A, 3p., C Curve, 2 x socket outlet, straight, System F German standard (schuko), 2 x 3p+N+PE Panel mounting socket outlet, straight	276x460x148	1
VF332	Distribution Board contains: 1 x RCCB 40A, 4p., 1 x Isolator 40A, 4p., 1 x Signal Light, 1/2p., 3 x mcb 40A, 1p., C curve, 3 x mcb 16A, 1p., C curve, 2 x mcb 16A, 3p., C Curve, 3 x socket outlet, straight, System F German standard (schuko), 2 x 3p+N+PE Panel mounting socket outlet, straight	276x460x148	1
VF360	Distribution Board contains: 1 x RCCB 40A, 4p., 1 x Isolator, 40A, 4p., 1 x Signal Light, 1/2p., 3 x mcb 40A, 1p., C curve, 6 x mcb 16A, 1p., C curve, 6 x System F German standard (schuko)	276x460x148	1

* Photo is only as a reference





Euroline Plastic IP65

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
VW120M	Distribution Board contains: 1 x RCCB 40A, 2p., 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 1 x mcb 32A, 1p., C curve, 2 x mcb 16A, 1p., C curve, 2 x DINRail Socket F German standard (schuko)	319x259x144	1

* Photo is only as a reference



Euroline Plastic IP65

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
VW230T	Distribution Board contains: 1 x RCCB 40A, 2p., 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 3 x mcb 40A, 1p., C curve, 3 x mcb 16A, 1p., C curve, 3 x DINRail Socket F German standard (schuko)	319x384x144	1

* Photo is only as a reference



Euroline Plastic IP65

CODE	DESCRIPTION	DIMENSIONS (W x H x D)	
VW240M	Distribution Board contains: 1 x RCCB 40A, 2p., 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 1 x mcb 32A, 1p., C curve, 4 x mcb 16A, 1p., C curve, 4 x DINRail Socket F German standard (schuko)	319x384x144	1

* Photo is only as a reference



Metalline IP65



CODE	DESCRIPTION	DIMENSIONS (WxHxD)	
VA-MB-140	Distribution Board contains: 1 x RCCB 40A, 2p. 1 x Isolator 40A, 1p., 1 x Pilot Lamps, 1p., 1 x mcb 32A, 1p., C curve, 3 x mcb 16A, 1p., C curve, 1 x DINRail Socket F German standard (schuko)	400x500x125	1
VA-MB-130T	Distribution Board contains: 1 x RCCB 40A, 4p. 1 x Isolator 40A, 4p., 1 x Signal lamp, 1/2p., 3 x mcb 40A, 1p., C curve, 3 x mcb 16A, 1p., C curve, 1 x mcb 16A, 3p., C curve, 3 x DINRail Socket F German standard (schuko)	400x500x125	1

* Photo is only as a reference

Metalline IP65



CODE	DESCRIPTION	DIMENSIONS (WxHxD)	
VA-MB-231	Distribution Board contains: 1 x RCCB 40A, 4p., x Isolator 40A, 4p., 1 x Signal lamp, 1/2p., 3 x mcb 40A, 1p., C curve, 3 x mcb 16A, 1p., C curve, 1 x mcb 16A, 3p., C curve, 3 x DINRail Socket F German standard (schuko), 1 x Socket outlet 3P+N+PE	400x500x125	1

* Photo is only as a reference

DC Distribution Boards 1000V



CODE	DESCRIPTION	
VWDCCX100	DC Distribution Board 1000V 1MPPT / 1 string without isolator IP65	1
VWDCCD100	DC Distribution Board 1000V 1MPPT / 1 string with isolator IP65	1
VWDCCX110	DC Distribution Board 1000V 2MPPT / 1 string without isolator IP65	1
VWDCCD110	DC Distribution Board 1000V 2MPPT / 1 string with isolator IP65	1
VWDCCX111	DC Distribution Board 1000V 3MPPT / 1 string without isolator IP65	1
VWDCCD111	DC Distribution Board 1000V 3MPPT / 1 string with isolator IP65	1
VWDCCX200	DC Distribution Board 1000V 1MPPT / 2 string without isolator IP65	1
VWDCCD200	DC Distribution Board 1000V 1MPPT / 2 string with isolator IP65	1
VWDCCX220	DC Distribution Board 1000V 2MPPT / 2 string without isolator IP65	1
VWDCCD220	DC Distribution Board 1000V 2MPPT / 2 string with isolator IP65	1
VWDCCX222	DC Distribution Board 1000V 3MPPT / 2 string without isolator IP65	1
VWDCCD222	DC Distribution Board 1000V 3MPPT / 2 string with isolator IP65	1

AC Distribution Boards



CODE	DESCRIPTION	
VWACCX101	AC Distribution Board for solar system up to 10kW IP65	1
VWACCX201	AC Distribution Board for solar system up to 20kW IP65	1
VWACCX301	AC Distribution Board for solar system up to 30kW IP65	1
VWACCX401	AC Distribution Board for solar system up to 40kW IP65	1
VWACCX501	AC Distribution Board for solar system up to 50kW IP65	1

AC E-Mobility Distribution Boards 11 kW

CODE	DESCRIPTION	
EVAC0511	AC eMobility Distribution Board 11kW 1Ph IP65	1
EVAC0511PL	AC eMobility Distribution Board 11kW 1Ph Powerline IP65	1
EVAC11	AC eMobility Distribution Board 11kW 3Ph IP65	1
EVAC11PL	AC eMobility Distribution Board 11kW 3Ph Powerline IP65	1



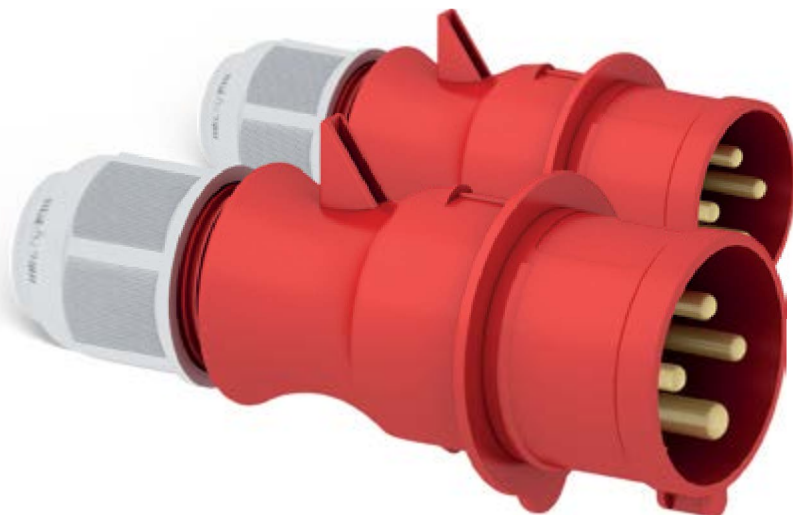
AC E-Mobility Distribution Board 22 kW

CODE	DESCRIPTION	
EVAC22	AC eMobility Distribution Board 22kW 3Ph IP65	1
EVAC22A	AC eMobility Distribution Board 22kW 3Ph without RCCB A IP65	1
EVAC22PL	AC eMobility Distribution Board 22kW 3Ph Powerline IP65	1





GEYER





CHAPTER E

CEE Plugs & Connectors

IP44



Wall Mounting Socket Outlet - with External Fixing 16A

CODE	NUMBER OF POLES	VOLTAGE	
11765	3x16A	230	10
11645	4x16A	400	10
110624 (100)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Socket Outlet - with External Fixing 32A

CODE	NUMBER OF POLES	VOLTAGE	
11651	3x32A	230	10
110658	4x32A	400	10
110635 (101)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Socket Outlet 63A

CODE	NUMBER OF POLES	VOLTAGE	
1104	3x63A	230	10
1127	4x63A	400	10
1124	5x63A	400	10

IP44



Panel Mounting Socket Outlet, Angled 16A

CODE	NUMBER OF POLES	VOLTAGE	
127721 (1217)	3x16A	230	10
1221	4x16A	400	10
12730 (1227)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Panel Mounting Socket Outlet, Angled 32A

CODE	NUMBER OF POLES	VOLTAGE	
1229	3x32A	230	10
1233	4x32A	400	10
1239	5x32A	400	10

IP44



Panel Mounting Socket Outlet, Straight 63A

CODE	NUMBER OF POLES	VOLTAGE	
1307	3x63A	230	5
134	4x63A	400	5
136	5x63A	400	5



Wall Mounting Socket Outlet 16A

CODE	NUMBER OF POLES	VOLTAGE	
1133	3x16A	230	10
1137	4x16A	400	10
1143	5x16A	400	10



Wall Mounting Socket Outlet 32A

CODE	NUMBER OF POLES	VOLTAGE	
1145	3x32A	230	10
1149	4x32A	400	10
1155	5x32A	400	10



Wall Mounting Socket Outlet 63A

CODE	NUMBER OF POLES	VOLTAGE	
1157	3x63A	230	5
1161	4x63A	400	5
1112	5x63A	400	5



Wall mounting socket outlet 125A

CODE	NUMBER OF POLES	VOLTAGE	
11437	3x125A	230	10
11441	4x125A	400	10
11447	5x125A	400	10

IP44



Panel Mounting Socket Outlet, Angled 63A

CODE	NUMBER OF POLES	VOLTAGE	
12135	3x63A	230	5
1201	4x63A	400	5
1202	5x63A	400	5

IP67



Panel Mounting Socket Outlet, Straight 63A

CODE	NUMBER OF POLES	VOLTAGE	
1396	3x63A	230	5
13100	4x63A	400	5
13104	5x63A	400	5

IP67



Panel Mounting Socket Outlet, Straight 125A

CODE	NUMBER OF POLES	VOLTAGE	
13452	3x125A	230	5
13447	4x125A	400	5
13451	5x125A	400	5

IP54



Plugs 16A

CODE	NUMBER OF POLES	VOLTAGE	
211 (21001)	3x16A	230	10
21005	4x16A	400	10
200 (203)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP54



Plugs 32A

CODE	NUMBER OF POLES	VOLTAGE	
2114 (21013)	3x32A	230	10
2118 (21017)	4x32A	400	10
201 (204)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Plugs 63A

CODE	NUMBER OF POLES	VOLTAGE	
2104	3x63A	230	5
2151	4x63A	400	5
2155	5x63A	400	5

Plugs 63A

IP67



CODE	NUMBER OF POLES	VOLTAGE	
2181	3x63A	230	5
2185	4x63A	400	5
2189	5x63A	400	5

Plugs 125A

IP67



CODE	NUMBER OF POLES	VOLTAGE	
2191	3x125A	230	5
2195	4x125A	400	5
2199	5x125A	400	5

IP44



Wall Mounting Appliance Inlet 16A

CODE	NUMBER OF POLES	VOLTAGE	
240	3x16A	230	10
24329	4x16A	400	10
24675 (24142)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Appliance Inlet 32A

CODE	NUMBER OF POLES	VOLTAGE	
24331	3x32A	230	10
24330	4x32A	400	10
24661 (24143)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Appliance Inlet 63A

CODE	NUMBER OF POLES	VOLTAGE	
24336	3x63A	230	5
24338	4x63A	400	5
24134	5x63A	400	5

Wall Mounting Appliance Inlet 63A



CODE	NUMBER OF POLES	VOLTAGE	
24340	3x63A	230	5
24035	4x63A	400	5
24062	5x63A	400	5

Wall Mounting Appliance Inlet 125A



CODE	NUMBER OF POLES	VOLTAGE	
24198	3x125A	230	5
24200	4x125A	400	5
24202	5x125A	400	5

IP67



Flanged Appliance Inlet 63A

CODE	NUMBER OF POLES	VOLTAGE	
28176	3x63A	230	5
28178	4x63A	400	5
28180	5x63A	400	5

IP67



Flanged Appliance Inlet 125A

CODE	NUMBER OF POLES	VOLTAGE	
2860	3x125A	230	5
2861	4x125A	400	5
2876	5x125A	400	5

IP44



ELV Plug 16A

CODE	NUMBER OF POLES	VOLTAGE	
4428 (446)	3x16A	24	10
4429 (447)	3x16A	42	10

Article number in parentheses corresponds to the old article numbers

IP44



ELV Plug 32A

CODE	NUMBER OF POLES	VOLTAGE	
4439 (4417)	3x32A	24	10
4440 (4418)	3x32A	42	10

Article number in parentheses corresponds to the old article numbers

IP44



Phase Inverter 16A

CODE	NUMBER OF POLES	VOLTAGE	
225	5x16A	400	10
2602	5x16A	400	10

IP44



Phase Inverter 32A

CODE	NUMBER OF POLES	VOLTAGE	
227	5x32A	400	10
2603	5x32A	400	10

IP44

IP54



Connector 16A

CODE	NUMBER OF POLES	VOLTAGE	
311 (31001)	3x16A	230	10
31005	4x16A	400	10
300 (303)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP54



Connector 32A

CODE	NUMBER OF POLES	VOLTAGE	
3114 (31013)	3x32A	230	10
3118 (31017)	4x32A	400	10
301 (304)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Connector 63A

CODE	NUMBER OF POLES	VOLTAGE	
3104	3x63A	230	5
3151	4x63A	400	5
3112	5x63A	400	5

IP67



Connector 63A

CODE	NUMBER OF POLES	VOLTAGE	
3181	3x63A	230	5
3185	4x63A	400	5
3124	5x63A	400	5

IP67



Connector 125A

CODE	NUMBER OF POLES	VOLTAGE	
3191	3x125A	230	5
3195	4x125A	400	5
3199	5x125A	400	5

IP44



ELV Wall Mounting Socket Outlet 16A

CODE	NUMBER OF POLES	VOLTAGE	
416	3x16A	24	10
417	3x16A	42	10

IP44



ELV Wall Mounting Socket Outlet 32A

CODE	NUMBER OF POLES	VOLTAGE	
4117	3x32A	24	10
4118	3x32A	42	10

IP44



Wall Mounting Socket Outlet Switched 16A

CODE	NUMBER OF POLES	VOLTAGE	
16956 (16149)	3x63A	230	1
16034	4x63A	400	1
16035	5x63A	400	1

Article number in parentheses corresponds to the old article numbers

IP67



Wall Mounting Socket Outlet Switched 16A

CODE	NUMBER OF POLES	VOLTAGE	
16028	4x16A	400	1
16029	5x16A	400	1

IP67



Wall Mounting Socket Outlet Switched 32A

CODE	NUMBER OF POLES	VOLTAGE	
16103	3x32A	230	1
16032	4x32A	400	1
16033	5x32A	400	1

IP67



Wall Mounting Socket Outlet Switched 63A

CODE	NUMBER OF POLES	VOLTAGE	
16121	3x63A	230	1
16036	4x63A	400	1
16037	5x63A	400	1

IP67



Wall Mounting Socket Outlet Switched 125A

CODE	NUMBER OF POLES	VOLTAGE	
16419	3x125A	230	1
1667	4x125A	400	1
1670	5x125A	400	1

Domestic Panel Mounting Socket Outlet, Straight, System F German Standard



CODE	DESCRIPTION	VOLTAGE	
71094	Domestic panel mounting socket outlet, straight, System F German standard	250	10
724	wall mounting socket outlet	250	10

Connector



CODE	DESCRIPTION	VOLTAGE	
7486	Domestic Connector	250	10

Adapter



CODE	DESCRIPTION	VOLTAGE	
8615	CEE 230V to domestic type "F" German Earthing System	250	1

Plug

IP44



CODE	DESCRIPTION	
7370	Domestic Plug	20

Combined Wall Mounting Socket Outlet 16A

IP44



CODE	NUMBER OF POLES	VOLTAGE	
107	5x16A	400	10
1059	4x16A	400	10

Combined Wall Mounting Socket Outlet 32A

IP44



CODE	NUMBER OF POLES	VOLTAGE	
108	5x32A	400	10
1060	4x32A	400	10

Quick and Easy without service maintenance

QUICK  CONNECT



Insert cable through the cable sleeve and strip the conductors



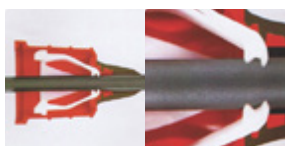
There is no need for the use of cable ferrules or tools, if wires are multiple



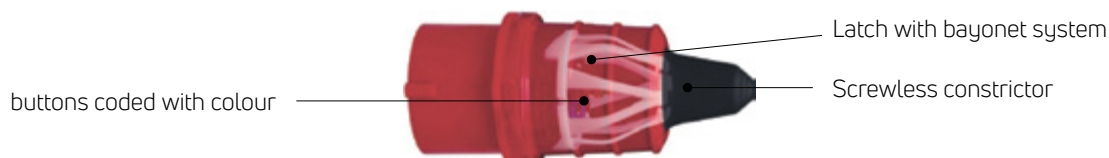
Insert the conductor into the appropriate terminal and push down the contact to lock the conductor into position.



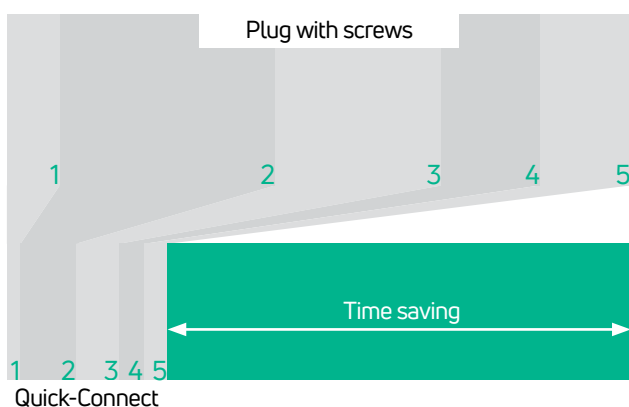
There is no need to tighten the cable clamp.



Rejoin terminal, connector housings and turn by turn degrees into lock position the four point bayonet catches are engaged and the screwless cable clamp is automatically pressed into the conical clamping area so that the cable is fixed durable and maintenance free.



Saving time with QUICK  CONNECT



In the diagram you see the saving of time during the connection of Quick-Connect products compared to standard industrial plugs.

The connection process 1 - 5 is illustrated on the drawings to the right

IP44



Wall Mounting Socket Outlet Quick-Connect 16A

CODE	NUMBER OF POLES	VOLTAGE	
11895	3x16A	230	10
11905	4x16A	400	10
110624 (112001)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Socket Outlet Quick-Connect 16A

CODE	NUMBER OF POLES	VOLTAGE	
11944	4x16A	400	10
11909	5x16A	400	10

IP44



Wall Mounting Socket Outlet Quick-Connect 32A

CODE	NUMBER OF POLES	VOLTAGE	
11919	3x32A	230	10
110658 (11922)	4x32A	400	10
110635 (112002)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Wall Mounting Socket Outlet Quick-Connect 32A

CODE	NUMBER OF POLES	VOLTAGE	
11949	3x32A	230	10
11956	4x32A	400	10
11962	5x32A	400	10

IP44 IP54



Panel Mounting Socket Outlet Quick-Connect, Straight 16A

CODE	NUMBER OF POLES	VOLTAGE	
136861 (13686)	3x16A	230	10
13693	4x16A	400	10
1320011 (132001)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP44 IP54



Panel Mounting Socket Outlet Quick-Connect, Angled 16A

CODE	NUMBER OF POLES	VOLTAGE	
127721 (12772)	3x16A	230	10
12779	4x16A	400	10
12730	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP54



Panel Mounting Socket Outlet Quick-Connect, Straight 32A

CODE	NUMBER OF POLES	VOLTAGE	
137031 (13703)	3x32A	230	10
13710	4x32A	400	10
1320021 (132002)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP44



Panel Mounting Socket Outlet Quick-Connect, Angled 32A

CODE	NUMBER OF POLES	VOLTAGE	
12789	3x32A	230	10
12795	4x32A	400	10
12801	5x32A	400	10

IP67



Panel Mounting Socket Outlet Quick-Connect, Straight 16A

CODE	NUMBER OF POLES	VOLTAGE	
13156 (13734)	3x16A	230	10
13739	4x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP67



Panel Mounting Socket Outlet Quick-Connect, Angled 16A

CODE	NUMBER OF POLES	VOLTAGE	
12231 (12813)	3x16A	230	10
12814	4x16A	400	10
128171 (12817)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP67



Panel Mounting Socket Outlet Quick-Connect, Straight 32A

CODE	NUMBER OF POLES	VOLTAGE	
13750	3x32A	230	10
13756	4x32A	400	10
13816 (13762)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP67



Panel Mounting Socket Outlet Quick-Connect, Angled 32A

CODE	NUMBER OF POLES	VOLTAGE	
12819	3x32A	230	10
12821	4x32A	400	10
1264 (12824)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers



Plug Quick-Connect 16A

CODE	NUMBER OF POLES	VOLTAGE	
211 (2126)	3x16A	230	10
2130	4x16A	400	10
200 (2136)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers



Plug Quick-Connect 32A

CODE	NUMBER OF POLES	VOLTAGE	
2114 (2138)	3x32A	230	10
2118 (2142)	4x32A	400	10
201 (2148)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers



Plug Quick-Connect 16A

CODE	NUMBER OF POLES	VOLTAGE	
210576	3x16A	230	10
210583	4x16A	400	10
210589	5x16A	400	10



Plug Quick-Connect 32A

CODE	NUMBER OF POLES	VOLTAGE	
210594	3x32A	230	10
210601	4x32A	400	10
210607	5x32A	400	10



Wall Mounting Appliance Inlet Quick-Connect 16A

CODE	NUMBER OF POLES	VOLTAGE	
24423	3x16A	230	10
24392	4x16A	400	10
24675 (242001)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers



Wall Mounting Appliance Inlet Quick-Connect 32A

CODE	NUMBER OF POLES	VOLTAGE	
24402	3x32A	230	10
24703 (24405)	4x32A	400	10
24661 (242002)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers



Wall Mounting Appliance Inlet 16A

CODE	NUMBER OF POLES	VOLTAGE	
2473	3x16A	230	10
2477	4x16A	400	10
24416 (2483)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers



Wall Mounting Appliance Inlet 32A

CODE	NUMBER OF POLES	VOLTAGE	
24020	3x32A	230	10
24021	4x32A	400	10
2402	5x32A	400	10

IP44



Flanged Appliance Inlet Quick-Connect, Straight 16A

CODE	NUMBER OF POLES	VOLTAGE	
28111	3x16A	230	10
28112	4x16A	400	10
282001	5x16A	400	10

IP44



Flanged Appliance Inlet Quick-Connect, Straight 32A

CODE	NUMBER OF POLES	VOLTAGE	
28010	3x32A	230	10
28012	4x32A	400	10
282002	5x32A	400	10

IP44

IP54



Quick-Connect Connector 16A

CODE	NUMBER OF POLES	VOLTAGE	
311 (3126)	3x16A	230	10
3130	4x16A	400	10
300 (3136)	5x16A	400	10

Article number in parentheses corresponds to the old article numbers

IP54



Quick-Connect Connector 32A

CODE	NUMBER OF POLES	VOLTAGE	
3114 (3138)	3x32A	230	10
3118 (3142)	4x32A	400	10
301 (3148)	5x32A	400	10

Article number in parentheses corresponds to the old article numbers

IP67



TLS Connector Multi-Grip Cable Gland 16A

CODE	NUMBER OF POLES	VOLTAGE	
310333	3x16A	230	10
310340	4x16A	400	10
310346	5x16A	400	10

IP67



TLS Connector Multi-Grip Cable Gland 32A

CODE	NUMBER OF POLES	VOLTAGE	
310351	3x32A	230	10
310358	4x32A	400	10
310364	5x32A	400	10

IP44

Wall Mounting Socket Outlet

CODE	NUMBER OF POLES	VOLTAGE	
1227			
11930	3x16A	230	10





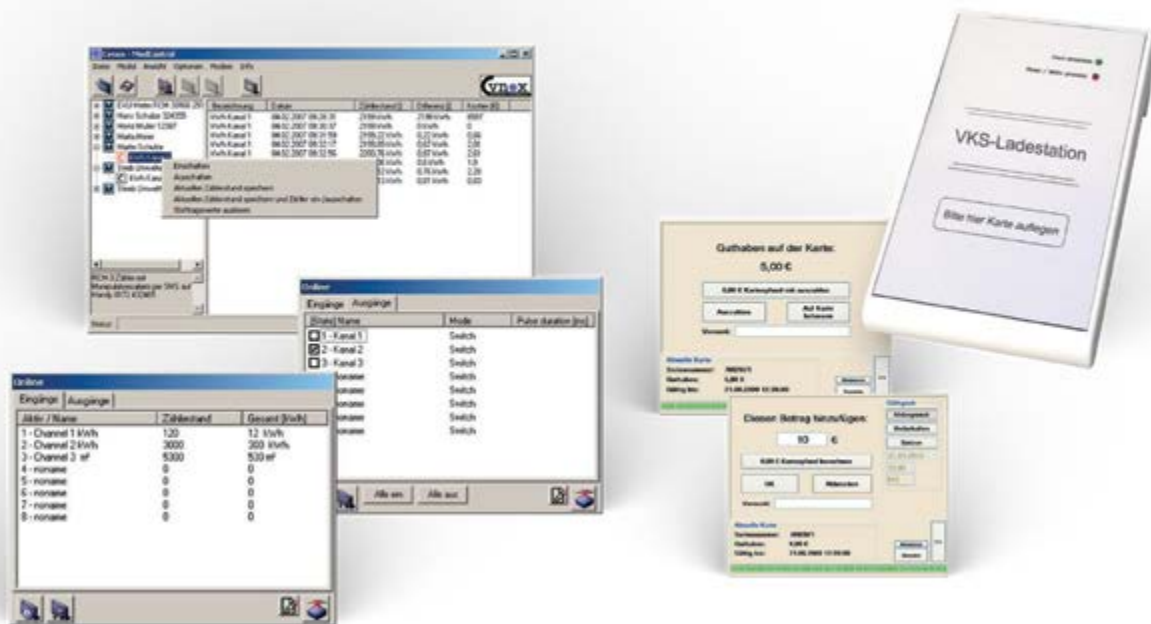
Chapter F Pedestals



The internal heavy-duty, hot-dipped galvanised steel chassis, combined with the option of stainless steel, aluminium or composite external skins ensures that the marina service pedestal is strong, durable and easy to maintain. Available in a variety of sizes with LED lighting as well as limitless electrical and water outlet combinations, this service pedestal is a cost effective solution for all waterfront locations.

Accommodating additional services such as TV, telephone and data outlets, hose pipes and hooks, locking/security facilities and metering as well as Rolec's industry leading utility management systems, the Campus Pedestal offers a versatile and adaptable solution for all.

- › Convenient cashless system - no admin authorisation required before using the pedestal
- › Control – only pay for consumption used
- › Visibility – easily track how much credit is remaining on the service pedestal and know when to top-up at the marina office
- › Self-operating system – the pedestals will dispense electricity/water services according to the credit made available
- › Pre-pay solution – berth holders always pay for their services upfront
- › Flexible tariffs – can apply multiple tariffs for different services
- › Self-contained – administered RFIDcards can only operate on your marina



Software is a cost effective stand alone pre-payment system, enabling the marina operator to take control of the services from the office, by issuing the boat owner with a re-useable RFID card, allowing flexibility for the boat owner to add or retract credit from their chosen service.

Utilising MID Approved meters, the software requires no additional cabling and no monthly fees, making this an idea solution to recover energy costs whilst falling in line with any budgetary constraints.

- › Easy to Follow on screen Instructions
- › Easy to Install
- › Facility to Set Validity Date
- › MID Approved Meters
- › Multiple Tariff Facility
- › No Additional Data Cabling Needed
- › No Monthly Charges
- › RFID cards are Charged/Refunded using Office Based Card Reader
- › Upfront Pay As You Go System
- › Contactless RFID technology
- › Credit return facility
- › Disposable or rechargeable security encrypted card
- › Prepayment function

RFID cards

Contactless, re-useable plastic RFID.
Complying with ISO7810.



CAMPUS100

- › V2A, 1.4301 (AISI304)
- › RFID or coin
- › Can accommodate sockets up to 32A
- › 1/2 inch Water Outlet Option
- › IP54
- › LED Illumination



CAMPUS200

- › Manufactured in marine grade HDPE, Campus 200 has been designed to withstand the effects of salt water, moisture, direct sunlight, along with extreme temperatures. Unique and innovative design also affords the complete segregation of it's water and power services as a standard feature.
- › High impact strength as well as excellent tensile strength, and the resistance to cracking.
- › The decorative textured surface does not show wear, dirt or scratches resulting in a minimal cleaning and maintenance programme.
- › 1/2, 3/4, 1 inch Water Outlet Options
- › 16amp to 125 amp outlets
- › Almost Maintenance Free
- › LED Illumination
- › Segregation of Water and Power services
- › UV Stabilised
- › With or w/o RFID



Installation materials for CAMPUS

Power supply

- CEE plugs IP44/67
- CEE plugs straight or angled
- With or w/o isolators

Energy meters

- Single or Three phase, MID approved up to 63A
- LCD monitor
- Digital

CAMPUS300

- › With it's non corrosive internal chassis, the Campus 300 offers style, strength, durability, along with it's outstanding ability to accommodate many services.
- › 1/2, 3/4, 1 inch Water Outlet Options
- › Can Accommodate Sockets upto 250Amps
- › High Density Polyethylene Internal Chassis
- › IP 65 Rated
- › UV Stabilised Scratch Resistant Acrylic Capped ABS)
- › LED Illumination



CAMPUS400

- › Campus400 with it's unique semi-recessed design of services giving a sleek stylish look offers durability and quality.
- › It has the ability to accommodate many other services that include TV, telephone and data whilst affording complete segregation of it's electricity and water services as a standard feature.
- › 1/2, 3/4, 1 inch Water Outlet Options
- › Can Accommodate Sockets upto 250Amps
- › Computer or SMART Card Control Options Available
- › IP 65 Rated
- › Low Energy LED Lighting
- › Manufactured in Aluminium Powder Coated or Stainless Steel Powder Coated
- › Segregation of Water and Power services
- › Sleek Attractive Design
- › TV, SAT, Telephone & Internet Options Available



Installation materials for CAMPUS

Power supply

- CEE plugs IP44/67
- CEE plugs straight or angled
- With or w/o isolators

Energy meters

- Single or Three phase, MID approved up to 63A
- LCD monitor
- Digital

- Due to continuous improvements, product specifications can change without notice.
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2026

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