



IP66 External EV Circuit Protection

Specification Sheet

Designed specifically for use with EV chargers to allow for external wiring applications. Compliant to latest 18th Edition Amd 3.



RANGE FEATURES & SPECIFICATIONS

CODES :	CP5MRDPS1G
POPULATED WITH :	1 x 40A 30mA RCBO Double Pole, Bidirectional Type A, 1 x 100A Main Switch, 1 x Type 2 SPD
INCOMER :	100A MAIN SWITCH
MODULES / WAYS :	5 MODULE / 5 WAYS
IP RATING:	IP66
COMPLIANCE :	18TH EDITION BS7671 AMENDMENT 2 & 3
STANDARDS :	MAIN SWITCH IEC/EN 60947-3, RCBO IEC/EN 61009-01, SPD IEC 61643-11, ENCLOSURE IEC 61439-3
CONSTRUCTION :	PC HOUSING, UV STABLE
COLOUR :	ANTHRACITE GREY, RAL 7016
SECURITY :	LOCKABLE COVER, ≤5MM LOCK SHACKLE. (LOCK NOT SUPPLIED)
COVER BLANKS :	1 X 18MM (REMOVABLE)
CUTOUTS & KNOCKOUTS :	DRILLABLE - SIDES 20-40MM & 20-25MM 1 EACH SIDE, BOTTOM 20-25MM X 3 BASE 20-32MM x1
WEIGHT :	2 KG



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Technical Data

Bidirectional RCBO 1 Module Double Pole 6kA B & C Curve 30mA

Double pole bidirectional RCBO type A, providing superior protection for both circuits and people where current has the ability to flow in 2 directions through the device such as a PV/ Solar application.

The single module compact design will fit in any BG consumer unit or enclosure via a standard DIN rail fit.

Features

- Bidirectional
- Both pole isolation
- BS7671 Amendment 3 compliant device
- Pollution degree 3 tested
- -25°C - +40°C operating temperature range
- Single module
- Type A >6mA pulsed DC detection
- 6kA
- Available in 6-40A
- B & C Curve



Operating Temperature

The rated value of the current of a double pole bidirectional RCBO B curve characteristic refers to ambient temperature of 30°C. The following table contains the derating of the load capacity at ambient temperatures from -30°C to 70°C device characteristics.

	Maximum operating current at ambient temperature T																				
Rated Current In	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
6	8.05	7.9	7.74	7.58	7.42	7.26	7.09	6.92	6.74	6.56	6.37	6.18	6	5.81	5.6	5.38	5.15	4.91	4.65	4.38	4.08

Technical Specifications (6A - 40A)

Bidirectional	Yes	Max operating voltage	264 V
Neutral position	Right	Rated impulse withstand voltage	4 kV
Number of poles	2 P	Rated residual operating current	30 mA
Type of pole	1P+N	RCD type	Type A
Fixing mode	DIN rail type 35mm	Total power loss under IN	18 W
Curve	B & C	Electric endurance in number of cycles	2,000
Rated operational voltage Ue	230 V	Number of mechanical operations	5,000
Pollution degree	3	Screw terminal	Yes - Pozidrive 2
Frequency	50 Hz	Terminal torque	L2 - 2Nm L1/N1 - 1.2Nm
Type of supply voltage	AC	Max cable capacity	L2 - 16mm L1/N1 - 10mm
Rated insulation voltage	400 V	Neutral cable length & size	480mm, 4mm

Standards IEC/EN61009-01 EN1822 Amendment 3



Technical Data

Type 2 Surge Protection Device

This Type 2 Surge Protection Device provides superior protection against Transient over voltages, by diverting the surge to earth within <25ns. And protecting all loads/circuits connected to the consumer unit.

Features

- Type 2 single phase
- Fully compliant to BSEN61643-11, BSEN62305 & BSEN7671
- Single module
- 40kA
- Max back up fuse 100A gG
- Positive contact status indicator
- Compact size
- Suitable for domestic installations

Technical Specifications

Standards	BSEN61643-11, BSEN62305	Recommended back up fuse	100A gG
Maximum continuous voltage UCV	275V	Terminal capacity	1.5mm - 6mm ²
Voltage protection level	<15kV	Terminal Torque	L - 3Nm N/PE 1.2Nm
Nominal discharge current(in)	L-N 20kA, N-PE 20kA Max discharge L-N 40kA N-PE 40kA	Din rail mountable	Yes
Response time	<25ns	Visual indication of status	Green: OK Red: Replace Device

