

SRC series High Current RCD Protection Assemblies with Integral Kilowatt Hour Meter

In addition to providing variable RCD, overcurrent and short-circuit protection, these assemblies also record electricity consumption, enabling electricity usage in different parts of an installation to be measured and controlled.

Assemblies comprise of a Blakley MRCD series core balance residual current sensor with adjustable sensitivity and time delay, working in conjunction with an MCB or MCCB rated up to 250A, fitted with a shunt-trip. A multi function meter is incorporated, with all interconnections between fuses, CTs, etc., fully wired and tested.

RCD protection complies with BS EN 60947-2 (annex M), as required by BS7671:2018 (18th Edition IET Wiring Regulations). Protection is classified as Type A and non-standard assemblies providing Type B protection can be supplied (when supplying tower cranes with Variable Speed Drives). The assemblies meet the requirements of BS EN 61439-2.

Enclosure

Surface mounting, providing protection to IP54 with a welded-on rain roof, external fixing lugs, a side hinged gasketed door with quick release fasteners and a removable bottom gland plate for cable entry and exit. The enclosure is fabricated from 1.5 mm sheet steel, shade Poppy Red. The finishing system has been type tested to BS EN 61439-4 for heavily polluted atmospheres.

RCD Protection

The sensitivity adjustment range is 0.1A to 30A and the time delay range is 0 to 10 seconds (the 100A assembly has a sensitivity range of 0.03A to 30A).

Overcurrent Protection

MCBs / MCCBs are manufactured in accordance with BS EN 60947-2.

Standard overcurrent ratings are: 100A, 160A, 200A and 250A. MCBs and MCCBs are 4P (with switched neutral) and MCCBs incorporate adjustable trips. Higher current assemblies can also be supplied.

Supply Voltage

400V TP&N

Kilowatt Hour Meter

Fitted with a kWhr meter, active energy Class 1 (BS EN 62053-21); reactive energy Class 2 (BS EN 62053-23). For billing applications, assemblies are available with MID approved meters.



Part Number S201152R - 200A rating

Type Number	Item Number	Overcurrent Current Rating	Dimensions (mm)
SRC/OC/4P/MRCD100C/kWhr	S201150R	100A (MCB)	583H X 323W X 215D
SRC/OC/4P/MRCD160/kWhr	S201151R	160A	745H X 473W X 315D
SRC/OC/4P/MRCD200/kWhr	S201152R	200A	745H X 473W X 315D
SRC/OC/4P/MRCD250/kWhr	S201153R	250A	745H X 473W X 315D