

## ARC series High Current RCD Protection Assemblies

The ARC series of high current, Modular Residual Current Devices comprise of a Blakley MRCD series core balance residual current sensor with adjustable sensitivity and time delay, working in conjunction with a 4P MCB or MCCB with shunt-trip, in overcurrent ratings from 100A to 1600A. Assemblies are housed in all-insulated surface mounting enclosures to IP 55 with a choice of cable entry and exit points. RCD protection is classified as Type A and non-standard assemblies providing Type B protection can be supplied in ratings up to 630A (when supplying tower cranes with Variable Speed Drives). The overall assemblies meet the requirements of BS EN 61439-2.

Please see data sheet PDS021 for the SRC series of high current Modular Residual Current Devices in steel enclosures and PDS022 for SRC assemblies with integral kilowatt hour meter.

### Enclosure

All insulated, surface mounting, providing protection to IP55. The enclosure incorporates a side hinged, gasketed door with quick release fasteners. Alternative layouts of (a) bottom cable entry / exit and (b) top cable entry / bottom exit are offered up to 400A. A steel gland plate is incorporated to enable outgoing SWA cables to be glanded off. Heavy duty, galvanized wall brackets are incorporated.

### RCD Protection Adjustment Range

100A rating: Sensitivity range is 0.03A to 30A and time delay range is 0 to 10 seconds.  
160A to 800A rating: Sensitivity range is 0.1A to 30A and time delay range is 0 to 10 seconds.  
1250A and 1600A: Sensitivity range is 0.3A to 30A and time delay range is 0 to 10 seconds

### Supply Voltage

400V TP&N (can be used on 230V SP&N supplies)

### Overcurrent Protection

MCBs / MCCBs are 4 pole (with switched neutral), manufactured in accordance with BS EN 60947-2 and are available in overcurrent ratings ranging from 100A to 1600A. MCCBs incorporate adjustable overcurrent trips (thermal magnetic or electronic dependent on rating).

Part Numbers for ARC series		
MCCB Rating	Cable Entry / Exit	Part No.
100A (MCB)	Bottom / Bottom	S010022R
160A	Bottom / Bottom	S010072R
200A	Bottom / Bottom	S010023R
250A	Bottom / Bottom	S010025R
400A	Bottom / Bottom	S010028R
630A	Bottom / Bottom	S010145R
800A	Bottom / Bottom	S010146R
1250A	Bottom / Bottom	S010147R
1600A	Bottom / Bottom	S010080R
100A (MCB)	Top / Bottom	S010155R
160A	Top / Bottom	S010156R
200A	Top / Bottom	S010157R
400A	Top / Bottom	S010158R



S010023, rated at 200A 4P, Bottom Entry / Exit  
Inset Panel / Shield Plate removed

Please see our website for dimensioned GA drawings.

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