

## SRC series High Current RCD Protection Assemblies

SRC series high current RCD protection assemblies comprise of a Blakley Electrics core balance residual current sensor with adjustable sensitivity and time delay, working in conjunction with an MCB or MCCB with shunt-trip, in overcurrent ratings from 100A to 1250A, housed in a sheet steel surface mounting enclosure to IP 54. The overall assemblies are generally in accordance with BS EN 60439-1, with the RCD tripping characteristics in accordance with BS 4293. Internal layouts are arranged for bottom cable entry and exit.

### 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. The enclosure is fabricated from 1.5 mm sheet steel, shade Poppy Red. The finishing system complies with the requirements of BS EN 60439-4 for Heavily Polluted atmospheres.

Please see over for details of the ARC series of all-insulated high current RCD protection assemblies.

### RCD Protection

Up to 225A rating - The standard sensitivity adjustment range is 0.1A to 1.0A and the time delay range is 0 to 1 second .

Over 225A rating - The standard sensitivity adjustment range is 0.1A to 2.0A and the time delay range is 0 to 3.5 seconds.

As a special, assemblies rated up to 400A can incorporate our VELR series sensor, which has a sensitivity adjustment range of 0.03A to 1.0A and a time delay adjustment range of 0 to 5 seconds.

### Overcurrent Protection

MCBs / MCCBs are manufactured in accordance with BS EN 60947-2. Standard overcurrent ratings are: 100A, 125A, 150A, 160A, 200A, 225A, 250A, 300A, 400A, 500A, 630A, 800A, 1000A and 1250A. MCCBs can be TP (with solid neutral) or 4P (with switched neutral). 4P MCCBs incorporate adjustable trips.

### Supply Voltages

400V TP or TP&N (a neutral is not required)

### Standard Ordering Codes

SRC/OC/#/##/###

- At # - Insert 3N for a TP MCB / MCCB + solid neutral or 4 for 4P MCB / MCCB with switched neutral
- At ## - Insert the MCB / MCCB rating in amps
- At ### - Insert VELS if the MCB / MCCB is rated at 225A or less or VRCD if the MCCB rating is over 225A

Typical ordering code:

SRC/OC/3N/200/VELS - TP MCCB rated at 200A; sensitivity 0.1A to 1.0A; time delay 0 to 1 second

PTO for Item Numbers, etc., of standard SRC assemblies.



SRC/OC/3N/400/VRCD - rated at 400A TP+N

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# ARC series High Current RCD Protection Assemblies

ARC series high current RCD protection assemblies comprise of a Blakley Electrics core balance residual current sensor with adjustable sensitivity and time delay, working in conjunction with an MCB or MCCB with shunt-trip, in overcurrent ratings from 100A to 1250A, housed in an all-insulated surface mounting enclosure to IP 55. The overall assemblies are generally in accordance with BS EN 60439-1, with the RCD tripping characteristics in accordance with BS 4293. Internal layouts are arranged for bottom cable entry and exit.

## Enclosure

All insulated, surface mounting, providing protection to IP55. The enclosure incorporates a side hinged, gasketed door with quick release fasteners. A steel gland plate is incorporated to enable outgoing SWA cables to be glanded off. Heavy duty, galvanized wall brackets are provided to simplify mounting of the enclosure on site.

Please see over for details of the SRC series of sheet steel high current RCD protection assembly.

## RCD Protection

Up to 225A rating - The standard sensitivity adjustment range is 0.1A to 1.0A and the time delay range is 0 to 1 second .

Over 225A rating - The standard sensitivity adjustment range is 0.1A to 2.0A and the time delay range is 0 to 3.5 seconds.

As a special, assemblies rated up to 400A can incorporate our VELR series sensor, which has a sensitivity adjustment range of 0.03A to 1.0A and a time delay adjustment range of 0 to 5 seconds.

## Overcurrent Protection

MCBs / MCCBs are manufactured in accordance with BS EN 60947-2. Standard overcurrent ratings are: 100A, 125A, 160A, 200A, 250A, 400A, 630A, 800A, 1000A and 1250A. MCCBs can be TP (with solid neutral) or 4P (with switched neutral). 4P MCCBs incorporate adjustable trips.

## Supply Voltages

400V TP / TP&N (a neutral is not required)

## Standard Ordering Codes

ARC/OC/#/###/###

- A # - Insert 3N for a TP MCB / MCCB + solid neutral or 4 for a 4P MCCB with switched neutral  
At ## - Insert the MCB / MCCB rating in amps  
At ### - Insert VELS if MCB / MCCB 200A or less or VRCD if MCCB rating over 200A



Typical ordering code

ARC/OC/4/400/VRCD - 4P MCCB rated at 400A; sensitivity 0.1A to 2.0A; time delay 0 to 3.5 seconds.

Type Numbers and Item Numbers for SRC and ARC assemblies in the range 100A to 800A

SRC Type Number	SRC Item Number	Current Rating	ARC Item Number	ARC Type Number
SRC/OC/3N/100/VELS	S200308	100A (MCB)	S010022	ARC/OC/4/100/VELS
SRC/OC/3N/150/VELS	S200892	150A/160A	S010072	ARC/OC/4/160/VELS
SRC/OC/3N/200/VELS	S200893	200A	S010023	ARC/OC/4/200/VELS
SRC/OC/3N/250/VRCD	S200894	250A	S010025	ARC/OC/4/250/VRCD
SRC/OC/3N/400/VRCD	S200895	400A	S010028	ARC/OC/4/400/VRCD
SRC/OC/4/630/VRCD	S201025	630A	S010145	ARC/OC/4/630/VRCD
SRC/OC/4/800/VRCD	S201032	800A	S010146	ARC/OC/4/800/VRCD

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