

## SIMPLIFY SITE INTAKE INSTALLATIONS WITH COMBINED CT CHAMBERS AND RCDs, RATED FROM 200A to 1600A

The electrical supplies to construction sites are generally TT supplies and in order to comply with the touch voltage and disconnection time requirements of BS7671, including Regulation 411.5.3, DNOs usually require an RCD to be installed at the main site intake point.

Some DNOs require the primary RCD on a site to be of all-insulated construction, due to the risk of an insulation failure on the supply side of the main RCD. In addition, some DNOs, such as the EDF London Power Networks area, have stringent requirements for the CT chamber used in the metering of a Supply to be of all-insulated construction (as well as the overall housing of the Intake Assembly - see over the page for suitable housings).

In order to simplify metering and protection requirements, Blakley Electrics stock a range of all-insulated combined CT Chambers and RCDs, which can be used on Temporary Builders Supplies rated from 200A to 1600A. The combined assemblies are designed to mount within our ISIA GRP housings (see over the page).

### General Specification

400A, 800A or 1600A CT Chamber housed in an all insulated enclosure meeting EDF London Power Networks requirements, close coupled to a Blakley Electrics all-insulated protection assembly incorporating overcurrent, short-circuit and RCD protection. There is full segregation between the two compartments and the RCD section has a steel extension box to allow glanding of a SWA load cable.

The 400A assembly incorporates a 4P MCCB with overcurrent adjustable from 400A to 160A and can be used for 200A or 400A services. The RCD is adjustable from 0.1A to 2.0A and the time delay is adjustable from 0 to 3.5 seconds.

The 800A assembly incorporates a 4P MCCB with overcurrent adjustable from 800A to 320A and the 1600A incorporates a 4P MCCB with overcurrent adjustable from 1600A to 640A. The RCDs of both these assemblies are adjustable from 0.3A to 300A and the time delay is adjustable from 0 to 5 seconds.

Combined units configured to meet EDF EPN, EDF SPN or Scottish & Southern requirements can also be supplied. Overleaf are details of Steel and GRP housings for Combined CT Chambers and RCDs. CT Chambers and high current RCDs can also be supplied as separate items.

Part No.	Description
S030053	Combined CT Chamber & RCD, 400A
S030986	Combined CT Chamber & RCD, 800A
S031015	Combined CT Chamber & RCD, 1600A
S030096	CT Chamber 400A
S030097	CT Chamber 800A
S030229	CT Chamber 1600A

See SafePower data sheet ref. SPDS3 for details of high current RCDs rated up to 1250A and ProPower data sheet PPDS8 for stand alone EDF LPN CT Chambers.



Combined CT Chamber and RCD, 800A, mounted on optional backboard

THE POWER PROFESSIONALS

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Cert. No. 902091

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## ISIA and SIA series Site Intake Assemblies

Site Intake Assemblies are free standing enclosures with wooden backboards and are designed to house the DNO Service Head, Meter, CT Chamber and Main Site RCD for Temporary Builders Supplies.

### ISIA series

Due to concerns about an insulation failure on the supply side of a Site Intake Assembly (causing a steel enclosure to liven up at mains voltage), some DNOs, such as EDF Energy Networks, now require Site Intake Assemblies for Temporary Builders Supplies to be of all insulated construction when used on TT supplies. Section 6B of the EDF Earthing Design Manual dated March 2009 clause 6B.5.1.3 refers.

ISIA series enclosures are free-standing, made from GRP and have padlockable doors. They are supplied fully assembled but are demountable to facilitate easier removal from site at the end of a project (they can be re-assembled for future use). ISIAs can be supplied as unequipped housings or complete with combined CT Chamber and RCD rated at up to 1600A.

#### Type ISIA 200, Single Door

Item No. S050471

Overall : 1925H x 990W x 505D

Backboard : 1220H x 850W mm

#### Type ISIA 400, Double Door

Item No. S050472

Overall : 2020H x 1590W x 572D

Backboard : 1220H x 1450W mm

#### Type ISIA 1600, Double Door

Item No. S050473

Overall : 2460H x 2000W x 755D

Backboard : 2000H x 1850W mm

The ISIA 400 will accommodate the 2/400A Combined CT chamber and RCD (S030053) and the ISIA 1600 will accommodate the 800A or 1600A Combined CT Chamber and RCD (S030986 and S031015 respectively).

### SIA series

For installations where steel enclosures can be used, we stock single and double door freestanding enclosures with wall securing brackets. Enclosures are fabricated from 1.5mm and 2mm mild steel and are finished by a pre-treatment and painting system which is Type Tested to BS EN 60439-4 for corrosion protection in heavily polluted environments.

#### Type SIA 200, Single Door

Item No. S140054

Overall : 1975H x 1000W x 572D mm

Backboard : 1220H x 850W mm

#### Type SIA 400, Double Door

Item No. S140074

Overall : 2081H x 1600W x 572D mm

Backboard : 1220H x 1450W mm

The SIA 400 can accommodate the 2/400A Combined CT Chamber and RCD (S030053). A larger SIA enclosure is available to house the 800A or 1600A Combined CT Chamber and RCD.



ISIA 1600 complete with 1600A Combined CT Chamber and RCD



S140074 SIA series Site Intake Assembly

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