

Site Distribution Boards to Sellafield Limited Specification

Blakley Electrics produces Mains Distribution Units (MDU) and Sub-Distribution Units (SDU) that have been developed for Sellafield construction and decommissioning installations. They are free-standing assemblies with bottom cable entry and exit. MDU series are of Form 4 segregated design with each switch fuse housed in its own compartment.

Enclosures

Provide protection to IP54 and are heavy duty, free-standing, double-sided, designed for use in a coastal environment. Due to the exceptionally corrosive atmosphere, enclosures are fabricated from 316L stainless steel and have a polyester powdercoat finish, shade Vermilion RAL 2002. The use of high-grade stainless steel provides enhanced corrosion resistance and is designed to provide a twenty-five year lifespan. Doors are provided with door stays and a padlocking facility. A canopy with guttering projects over the access doors both front and back.

Cable access is via gland plates located in the underside of the enclosures with one gland plate provided per compartment. There is a protective bond from each gland plate to the main earth bar and doors have a supplementary bond to the main earth bar.

Enclosures are fitted with 2 no. M20 eyebolts for initial off-loading on site. The eyebolts can be removed and blanked off without compromising the IP rating.

Busbar system

A 400A TP+N busbar system (independently tested to 25kA for 0.1 seconds) is incorporated. A separate 50 x 6.3mm earth bar is provided, which is located within enclosures, adjacent to the gland plates.

Thermostatically controlled anti-condensation heaters and test sockets are fitted as standard.

The overall specification of Blakley MDUs and SDUs is as detailed in Sellafield Engineering Standard ES_1_2263_2 Issue 4 and they also meet the requirements of BS EN 61439-4. Detailed GA drawings, descriptions and part numbers of MDU and SDU assemblies are available on our website.

If you have a requirement for heavy duty site distribution boards incorporating BS88 fusegear or circuit breakers to BS EN 60947-2, for installation at Sellafield or another nuclear installation, please contact our Crayford or Leeds Customer Service Centres.



S141859, SDU series, 250A



S141860, MDU series, 400A,
Form 4 segregation, outgoing switch fuses