

Switchgear mounting sets

Available for all ratings of Exel switch-disconnectors/switchdisconnecter fuses and Glasgow fuse-switch disconnectors and switchdisconnectors enabling these units to be mounted simply and efficiently either above or below the busbar chamber. Each mounting set comprises a template with instructions for machining the top/bottom plate of the busbar chamber; clamping channels, ready pierced for fasteners; all necessary fastenings; and, for Glasgow units, insulated shields and switch filler plates where appropriate.

Exel 2 switch-disconnectors & switch-disconnector fuses



Exel 2 switch disconnectors and switch-disconnector fuses meet the constructional requirements for isolation of and are type tested to BS EN 60947-3. Switches are of the quick make and break type, suitable for use on AC or DC. Units have removable moving contact assemblies to facilitate wiring. Exel 2 surface-mounting enclosures are fabricated from rust-protected sheet steel with a light grey paint finish. Removable blank top and bottom end plates (except for 20 and 32A top end plates which incorporate knockouts) and gasket doors give IP41 protection. Chromium-plated front operated handles, with "ON (I) OFF (O)" indication, and internal fixing enabling units to be mounted closely side by side. Interiors comprise porcelain bases fitted with non-ferrous conducting components.

Fuses and fuse carriers

HRC fuse carriers are designed for offset contact fuse links to BS 88: Part 2. Eaton HRC fuse links fitted to switchdisconnecter- fuses are suitable on systems up to 415V AC. Eaton fuses used in these products are also suitable for 250V DC systems. All performance tests have been carried out using Eaton BS88 fuselinks. Units are fitted with HRC Fuselinks of maximum rating but will accept fuselinks of a lower rating, refer to the Paramount HRC Fuselinks section on page 101. HRC pattern switchfuses are fitted with type SCH carriers (20A, 32A, 63A-moulded; 100A, 125A-porcelain).

Motor ratings

The motor ratings assigned to TPN switch-disconnector units are utilisation category AC23A (frequent operation) to BS EN 60947-3, which calls for make and break testing at 10 and 8 times rated current respectively for units having a motor rating up to and including 100 Amps. Ratings for switch-disconnector-fuses are dependent on suitable HRC fuses being fitted.

Cable size

Maximum cable sizes are: 20A–6mm², 32A–10mm², 63A–35mm², 100/125A–70mm².

Type test compliance with standards

This range has been satisfactorily type-tested in accordance with BS EN 60947-3 with Eaton HRC fuselinks fitted.

Glasgow and Exel metering solutions



Some of the toughest energy regulations ever seen in the UK are now in force. Part L2 of the Building Regulations introduced in England and Wales in 2006 addresses the conservation of energy in public, commercial and industrial buildings, setting high standards for architects, engineers and contractors to create a more sustainable built environment.

To extend the existing Metering solutions for MCCB Panelboards and MCB Distribution boards, Eaton now provides an engineered solution for metering the supply to it's market leading range of Fuse Disconnectors and Switch Disconnectors.

The Meterpacks provide generous cabling space for incoming cables and bolted lug connections. Meters are pre-installed and ready for use, requiring no setting up or additional electrical connections. Connection cables between the Meterpack and switchgear are also provided to simplify installation.

Principally developed for 100A (Exel)/200A(Glasgow) applications, the units can be used elsewhere to provide a ready to install, wire in, wire out solution for any 100A to 300A application.

With meter options of either pulsed output of kWh or Modbus RS485, the meters display useful parameters including kWh, line voltage, current, demand, etc.

Eaton's industrial switchgear metering solution completes a comprehensive range across the full range of Electrical distribution products and addresses the need to measure electricity consumption, whilst Split Metering options for separate small power and lighting circuits have also been added to distribution panels to fully meet the needs of the L2 regulations for every application.