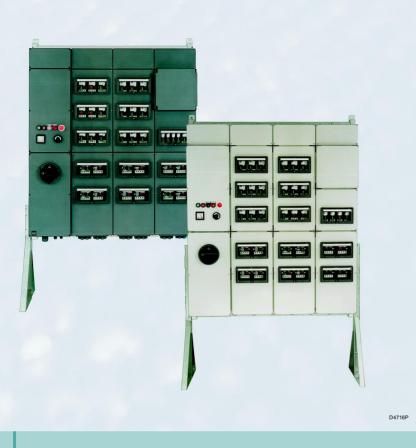
Control Panels, Distribution Panels and Components



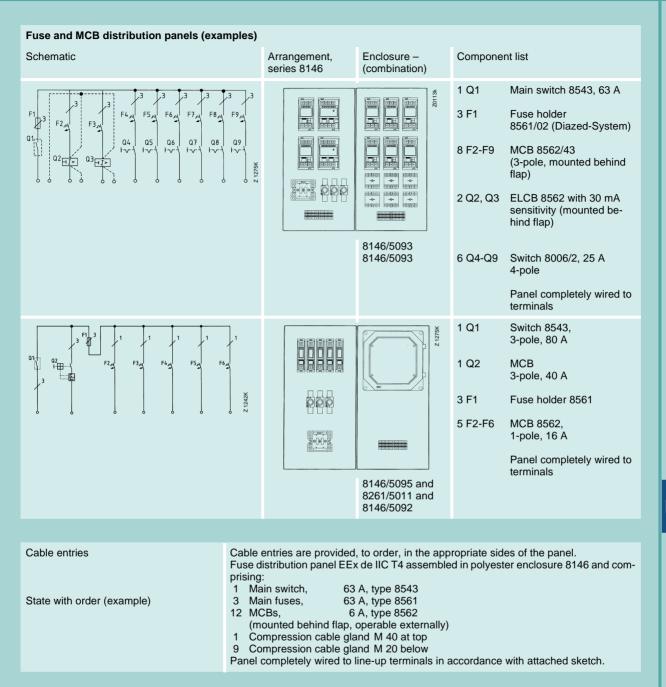
Fuse and miniature circuit breaker distribution assemblies in EEx e enclosures, with EEx modules, have been proved in practice to have exceptional qualities and have been used with success in locations where there is risk of explosion.

Explosion protected, individually, EEx d encapsulated components, described on pages 11/82 ff, are selected to order, and assembled in EEx e "increased safety" enclosures of sizes and combinations to suit the volume of components and the application.

Fuse and MCB Distribution Panels 8125 and 8146 Enclosure Series

- Explosion protection to
 - CENELEC
 - IEC
- Can be used in Zone 1 and Zone 2
- EEx e enclosures in different materials:
 - Series 8146 in polyester resin
 - Series 8125 in sheet steel, stainless steel
- Benefits of installing miniature circuit-breakers under hinged inspection windows
 - Operation of the breakers externally
 - Operation under voltage
 - Not necessary to open the enclosure
 - Switch setting visible at all times

Zone 1 and Zone 2



Notes on the use of MCBs

Instantaneous tripping occurs with model B breakers at 3 ... 5 times rated current ; with model C the pick-up value lies between 5 and 10 times rated value and with D breakers at 10 to 20 times rated current.

Load capacity in lighting circuits :

Incandescent (filament) lamps take a surge current on switchon which is a multiple of their normal current (up to approx. 12 x I_{N)}. Thus, a large number of filament lamps in a lighting circuit may cause the instantaneous release of a model MCB to operate when switched on. The designer must take this into account (permissible utilisation max. 80% of rating). Fluorescent lamps are not critical in this respect, providing they are not parallel compensated, since in that case the switch-on capacitor surge can also cause the MCB to trip. Thus large numbers of such fittings must be correctly distributed.

MCBs with C characteristic are not susceptible to these problems and may therefore be loaded to their full capacity, since the pick-up value for the instantaneous release is at a significantly higher level (5 to 10 times). STAHL