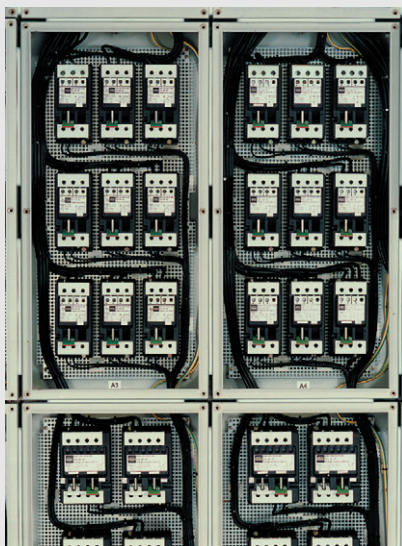


02715E00

A miniature circuit-breaker distribution panel in 8125 series enclosures with protection type EEx ed IIC, fitted with 8562 series MCBs. These are installed under window flaps, so that they can be operated and monitored without having to open the enclosure cover. Other control and monitoring equipment is fitted such as switches, indicating lamps and voltmeters. The distribution panel is mounted on an 8298 frame.



01633E00

The 8562 series of flameproof MCBs is arranged and wired in 8125 enclosures. The enclosures are connected to each other by flanges. The feed is supplied through a busbar system, and the outgoing leads are collected together in terminal blocks. Industrial switchgear units are fitted in 8261 series flameproof enclosures and can be incorporated therefore in EEx e distribution panels. The connection between flameproof chamber and EEx e chamber is made using flameproof conductor bushings.

A miniature circuit-breaker distribution panel in 8146 series enclosures, constructed in the same way as the distribution panel series 8125, see on page before.



09728E00

STAHL

Cable entries in a miniature circuit-breaker distribution panel in 8146 series enclosures. The illustration shows series 8161 cable glands, series 8162 breather glands and an external earth connection. Mounting flanges are available so that metal cable entries can be used.



01767E00



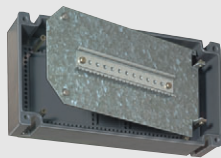
01722E00

**8146 and 8125 EEx e enclosure systems**

Enclosures in the 8146 series (polyester resin) and the 8125 series (galvanized sheet steel, stainless steel) are built to the EEx e "increased safety" protection type. All equipment fitted is explosion-protected to the flameproof EEx d class or EEx e "increased safety". Since both series of enclosures are designed as modular systems, they can be combined in any fashion within their series. When the enclosures are combined, explosion protection is guaranteed by using sealing frames between them.

**Fitting the components into the enclosure**

8146 and 8125 series enclosures are equipped with a lattice grid. This allows devices to be fitted directly to the enclosure. Mounting plates are also available to provide maximum flexibility in attaching components.



01774E00

Optionally, these mounting plates can also be made to swing out (for enclosure depths of 131 mm and 190 mm).

Enclosure 8146/.07 with adjustable mounting plate



01742E00



01741E00

**Covers and cover attachments**

Some cover depths can be increased to allow deep components (up to approx. 200 mm) to be installed. Control equipment from our product range can be fitted to the cover.



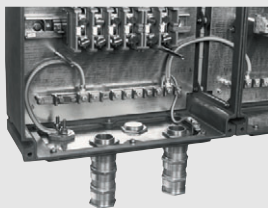
01775E00

Cover hinges facilitate handling during fitting, maintenance and repair work. Cover hinges are available as optional extras.

Enclosure 8146/.07 with cover hinges

**Cable entries**

Cable entries are provided as required in the order. Plastic or metal cable glands and cable entries to British standards are used.



01750E00

Where metal cable entries are used, a brass plate is added for earthing purposes. For cables with large cross-sections, cable entry plates with rubber grommets are available.

Metal cable glands are mounted into brass plates ensuring connection to the internal earthing system.

**Benefits of EEx e "increased safety" protection type**

- Assembly of the individual enclosures follows the building-block principle. This facilitates an equipment layout which is easy to understand.
- Simple maintenance  
EEx e enclosures can be opened quickly and without difficulty. The enclosure covers are secured with stainless steel cheese-head screws. Individual Ex-modules can be simply and quickly removed and changed. The Ex-module switching chamber is flameproof encapsulated, therefore Ex relevant holes and threads have not to be maintained. As with non-Ex installations, care must be taken with Ex installations to ensure that both incoming and outgoing cables are properly connected.
- Operational security  
Any effect on operation due to ambient conditions is largely excluded because of the encapsulated, pressure-tight enclosure in which the components are contained. Hence a high degree of operational security is achieved.
- Weight benefits  
EEx e enclosures, in particular those which are moulded, offer considerable weight benefits, especially compared with EEx d enclosures. Hence the handling and installation of the equipments is considerably simplified.

