



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".

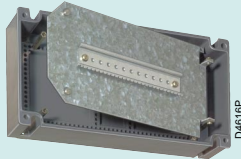
Since both series of enclosures are designed as modular systems, they can be combined in any fashion within their series.

When the enclosures are combined, explosion protection is guaranteed by using flanges between them.

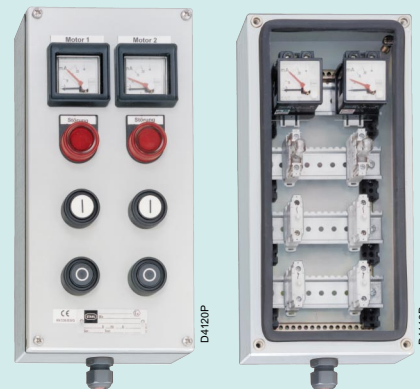
Fitting the components into the enclosure

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. 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 mountig plate



Covers and cover attachments

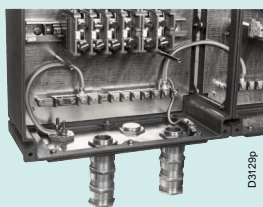
Some cover depths can be increased to allow deep components (up to approx. 200 mm) to be installed. Control equipment from our product range can be fitted to the cover. Cover hinges facilitate handling during fitting, maintenance and repair work. Cover hinges are available as optional extras.



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. 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



Metal cable glands are mounted into adapter 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.

Busbar system

- For current distribution in larger control units
- Maximum 690 V and 160 A

EEx d enclosure

- Cast aluminium enclosure
- Standard electrical equipment fitted

Control equipment

- Switches, indicating lamps
- Control and motor starters
- Ammeters and voltmeters
- Digital displays

Operating flaps

- External operation of EEx d series 8532 protection switches
- Opening of enclosure cover unnecessary
- Switch position is indicated
- Can be padlocked

Support framework

- Can be free-standing or wall-mounted
- Roof cover and lighting available
- Combination assembly system
- Suitable for the 8146 and 8125 enclosure series

Connection chamber

- Cable entries
- Cable distribution using terminal blocks

Cable entries

- Cable glands
- Bell-mouthed cable glands
- Cable sealing ends
- Entry of plain and armoured cable

