

## FUSION450S

## High voltage distribution unit

With the high voltage distribution system **FUSION**, the main components battery, charger, inverter, motor and optionally the fast-charging system get connected. All inputs and outputs are fused on both sides (positive and negative pole).

Typical applications are electrified machines and vehicles with increased demands on robustness and safety, such as construction machinery, commercial vehicles and municipal vehicles. In addition, we offer specific advice on the use of high-voltage distribution unit and for fuse and cable design.



## **Features**

- 4x connections 150 A to 400 A
- 2x connections 60 A to 125 A
- 4x connections 5 A to 50 A
- Short-circuit bracket
- Potential equalization
- EMC glands
- Pressure compensation element
- Mainboard (interlock switch, temperature sensor)

## **Specifications**

| Rated current  Supply voltage  12 / 24 V  Fuse protection  Positive and negative pole  System weight  11 kg (fully assembled)  Ambient temperature  -20 - +60 °C  Protection class  IP67 / IK09  Dimensions (L x W x H)  280 x 230 x 111 mm  Standards & norms  IEC 61439-1, -2 (general)  IEC 60664-1 (electric) |                        |                            |
|---|------------------------|----------------------------|
| Fuse protection  Positive and negative pole  System weight  Ambient temperature  Protection class  Dimensions (L x W x H)  Standards & norms  12 / 24 V  Positive and negative pole  11 kg (fully assembled)  -20 - +60 °C  IP67 / IK09  280 x 230 x 111 mm  IEC 61439-1, -2 (general)  IEC 60664-1 (electric)    | System voltage         | Up to 450 VDC              |
| Fuse protection  Positive and negative pole  11 kg (fully assembled)  Ambient temperature  -20 - +60 °C  Protection class  IP67 / IK09  280 x 230 x 111 mm  Standards & norms  IEC 61439-1, -2 (general)  IEC 60664-1 (electric)  | Rated current          | 300 A                      |
| System weight  11 kg (fully assembled)  Ambient temperature  -20 - +60 °C  Protection class  IP67 / IK09  Dimensions (L x W x H)  280 x 230 x 111 mm  Standards & norms  IEC 61439-1, -2 (general)  IEC 60664-1 (electric)  | Supply voltage         | 12 / 24 V                  |
| Ambient temperature -20 - +60 °C  Protection class IP67 / IK09  Dimensions (L x W x H) 280 x 230 x 111 mm  Standards & norms IEC 61439-1, -2 (general) IEC 60664-1 (electric)   | Fuse protection        | Positive and negative pole |
| Protection class       IP67 / IK09         Dimensions (L x W x H)       280 x 230 x 111 mm         Standards & norms       IEC 61439-1, -2 (general)         IEC 60664-1 (electric)   | System weight          | 11 kg (fully assembled)    |
| Dimensions (L x W x H) 280 x 230 x 111 mm  Standards & norms IEC 61439-1, -2 (general)  IEC 60664-1 (electric)  | Ambient temperature    | -20 – +60 °C               |
| Standards & norms IEC 61439-1, -2 (general) IEC 60664-1 (electric)  | Protection class       | IP67 / IK09                |
| IEC 60664-1 (electric)  | Dimensions (L x W x H) | 280 x 230 x 111 mm         |
|   | Standards & norms      | IEC 61439-1, -2 (general)  |
| ICO 46750 (in   |                        | IEC 60664-1 (electric)     |
| ISO 16750 (environment)   |                        | ISO 16750 (environment)    |





