

## FIEPOS EFUSE 3-PHASE

3x 380-480 V AC/24-28 V DC, 300 or 500 W

FPT300.246-042-101

IP54 Power supply 3x380-480 V AC/24 V DC, 300 W,  
NEC Class 2

- Decentralized Power Supply
- Up to 4 switchable outputs
- Output power 360/600 W
- 600/1000 Wpeak 5s
- IP54, IP65/IP67



### PRODUCT DESCRIPTION

The FPS300 is an industrialgrade power supply for 3-phase networks and is incorporated in a rugged wall- mount housing with IP65/67 protection. It provides two to four stabilized outputs that are galvanically separated from the input.

The negative potential of the outputs is permanently connected to PE within the unit.

The most outstanding features of the FPS series are the compact size, the wide operational temperature range, the extremely low input inrush current and the very high efficiencies, which are achieved by various design technologies.

Large sized output capacitors can absorb and store regenerative energy from breaking motors.

## TECHNICAL DATA

### INPUT DATA

|                                              |          |
|----------------------------------------------|----------|
| Input voltage ac                             | 380-480  |
| Input voltage ac min                         | 323 V AC |
| Input voltage ac max                         | 552 V AC |
| Inrush current at 400 V ac typical           | 2 A      |
| Power factor at 400 V ac, full load. Typical | 0,9      |
| Number of phases                             | 3        |

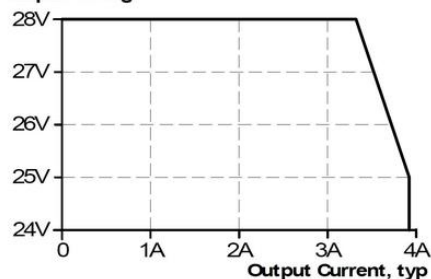
### OUTPUT DATA

|                    |         |
|--------------------|---------|
| Output voltage     | 24 V DC |
| Output voltage min | 24 V DC |
| Output voltage max | 28 V DC |
| Output current     | 12,5 A  |

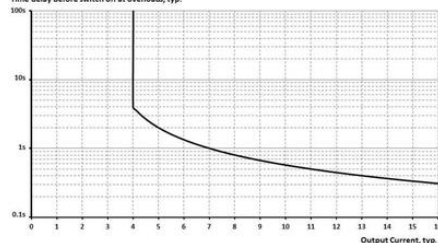
|                                             |                            |
|---------------------------------------------|----------------------------|
| Output current max                          | 25 A                       |
| Power                                       | 300 W                      |
| <b>EFFICIENCY / LIFETIME / MTBF</b>         |                            |
| Efficiency at 400 V ac, typical             | 93,5 %                     |
| Efficiency at 400 V ac, full load, typical  | 95,1 %                     |
| Lifetime at 400 V ac, full load and +40 ° C | 312000 h                   |
| MTBF (IEC 61709) 400 V ac, max loan, +40 °C | 625000 h                   |
| <b>DIMENSIONS</b>                           |                            |
| Width                                       | 182 mm                     |
| Height                                      | 272 mm                     |
| Depth                                       | 70 mm                      |
| Weight                                      | 1,55 kg                    |
| <b>OTHER</b>                                |                            |
| Approvals                                   | CB, CE, cULus, NEC Class 2 |
| Hold time at 400 V ac, typical full load    | 25 ms                      |
| IP class                                    | IP54                       |
| Material protection                         | Aluminium                  |
| Supply frequency                            | 50-60 Hz $\pm$ 6 %         |
| Ripple max                                  | 100 mV pp                  |
| Series                                      | FIEPOS eFuse               |
| Power consumption at 400 V ac               | 0,53 A                     |
| Temperature min without derating            | -25 °C                     |
| Temperature max without derating            | 55 °C                      |
|                                             |                            |
| Back-feeding loads                          | 35V / 4,3 J                |
| Max. Current per output                     | 3,9 A                      |
| Total output power <+55°C                   | 300 W                      |
| DC relay output                             | Yes                        |
| DC-OK/IO-link connector                     | M12-A                      |
| Total output power <1 s                     | 600 W                      |
| Input connector                             | HAN Q5/0                   |
| Total output power <1 min                   | 450 W                      |
| Output connectors                           | 4x M12-A                   |

|                                   |        |
|-----------------------------------|--------|
| IO-LINK                           | No     |
| Total output power <+70°C         | 150 W  |
| Power drop from +55 °C to + 70 °C | 6 W/°C |
| Active Transient                  | Yes    |

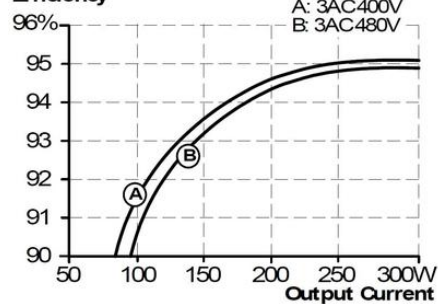
Output Voltage



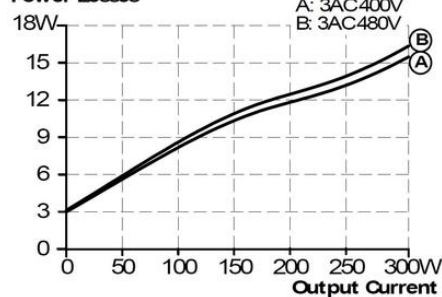
Time delay before switch off at overload, typ.



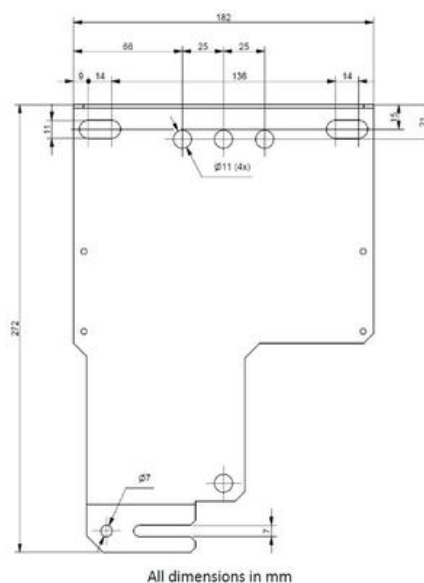
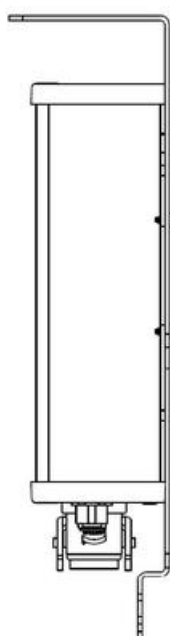
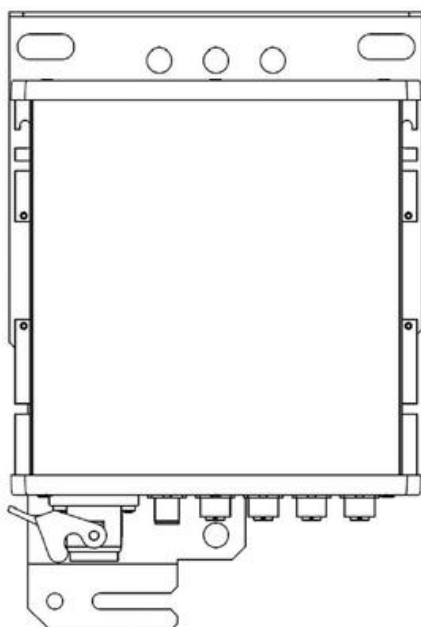
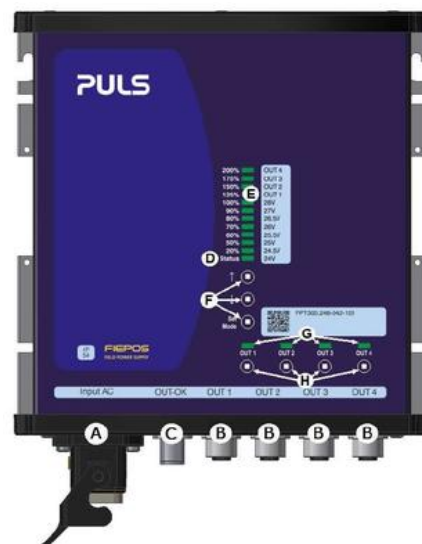
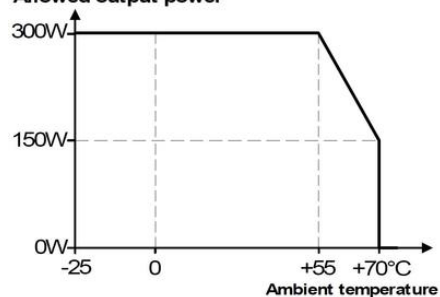
Efficiency

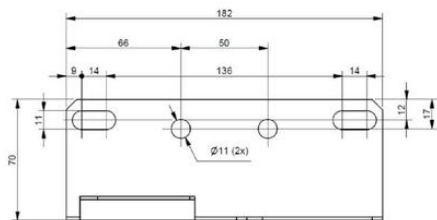


Power Losses



Allowed output power





All dimensions in mm

