FIEPOS EFUSE 3-PHASE

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

FPT500.245-034-105
IP65/IP67 Power supply 3x380-480 V AC/24 V DC, 500 W



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

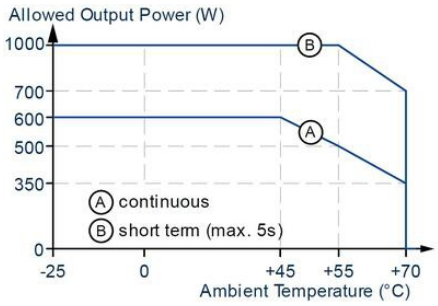
PRODUCT DESCRIPTION

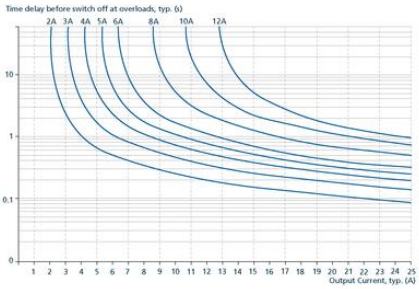
The FPS300 is an industrialgrade power supply for 3-phase networks and is incorporated in a rugged wall- mount housing with IP65/67 protection.
It provides two to four stabilized outputs that are galvanically separated from the input.
The negative potential of the outputs is permanently connected to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

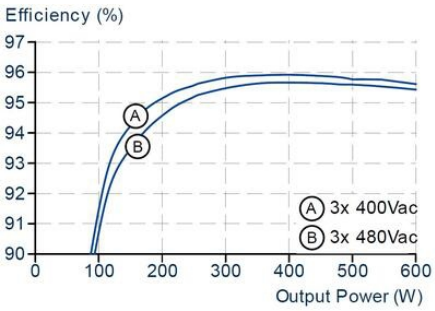
SPECIFICATIONS

Active Transient	Yes
Approvals	CB, CE, cULus
Back-feeding loads	35V / 4 J
DC relay output	No
DC-OK/IO-link connector	M12-A
Depth	59
Effect	500
Efficiency At 400 V AC, full load. Typical	95.8
Efficiency At 400 V AC. Typical	94.2
Height	183
Hold-up time at 400 V AC, full load. Typical.	24
Input connector	M12-S
Input voltage AC	380-480

Input voltage ac max	552
Input voltage ac min	323
Inrush current at 400 V ac typical	2
IO-LINK	Yes
IP Class	IP65, IP67
Lifetime at 400 V ac, full load and +40 ° C	43000
Max. Current per output	10
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	253000
Number of phases	3
Output connectors	2x M12-L
Output Current	20.8
Output current max	41.7
Output voltage	24
Output voltage max	28
Output voltage min	24
Power consumption at 400 V ac	0.8
Power drop from +55 °C to + 70 °C	10
Power Factor at 400 V AC, full load. Typical	0.94
Ripple. max	100
Series	FIEPOS eFuse
Supply Frequency	50-60 Hz ±6 %
Temperature Range Without Derating From	-25
Temperature Range Without Derating To	55
Total output power <+45°C	600
Total output power <+55°C	500
Total output power <+70°C	350
Total output power <5 s, <+55°C	1000
Total output power <5 s, <+70°C	700
Weight	1.2
Width	182


Allowed Output Power (W)
1000
700
600
500
350
0
B
A
A continuous
B short term (max. 5s)
-25
0
+45
+55
+70
Ambient Temperature (°C)

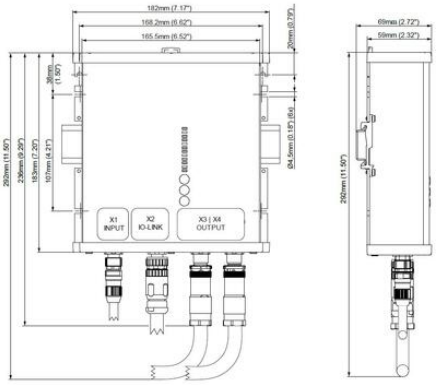

Time delay before switch off at overloads, typ. (s)
2A 3A 4A 5A 6A 8A 10A 12A
10
1
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
Output Current, typ. (A)

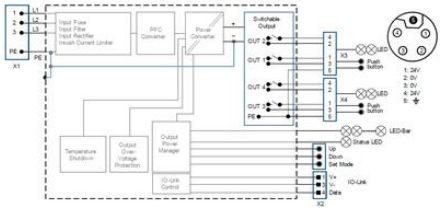

Efficiency (%)
97
96
95
94
93
92
91
90
A
B
A 3x 400Vac
B 3x 480Vac
0
100
200
300
400
500
600
Output Power (W)


Power Losses (W)
30
25
20
15
10
5
0
B
A
A 3x 400Vac
B 3x 480Vac
0
100
200
300
400
500
600
Output Power (W)


PULS
E
D
F
G
A
C
B


A. Input Connector
B. Output Connectors
C. IO Link Connector
D. Status LED
E. LED Bar
F. Set Mode and Up and Down Button
G. Output LEDs ON/OFF & Reset Buttons
E
D
F
G


182mm (7.17")
168.2mm (6.62")
165.5mm (6.52")
20mm (0.79")
36mm (1.50")
84.5mm (3.33")
260mm (11.50")
230mm (9.06")
183mm (7.20")
107mm (4.21")
X1 INPUT
X2 IO-LINK
X3 | X4 OUTPUT
69mm (2.72")
59mm (2.32")
260mm (11.50")


L1
L2
L3
PE
Input Fuse
Input Filter
Input Rectifier
Inrush Current Limiter
PFC Converter
Power Converter
Switchable Output
OUT 2
OUT 1
OUT 4
OUT 3
PE
X3
X4
Push button
LED
LED-Bar
Status LED
Up
Down
Set Mode
IO-Link
Temperature Shutdown
Output Over-Voltage Protection
Output Power Manager
IO-Link Control
X1
X2