FIEPOS BASIC 3-PHASE

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

FPT300.242-002-101
IP65/IP67 Power supply 3x380-480 V AC/24 V DC, 300 W



- IP54 or IP65/IP67
- Efficiency >95%
- Output power 360/600 W
- 600/1000 Wpeak 5s
- IO-Link or DC-OK relay

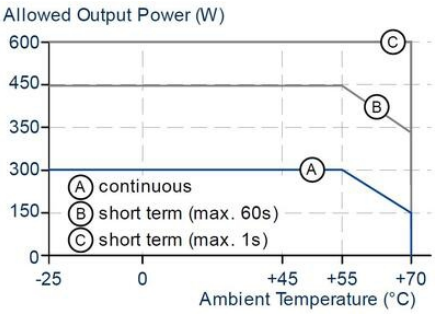
PRODUCT DESCRIPTION

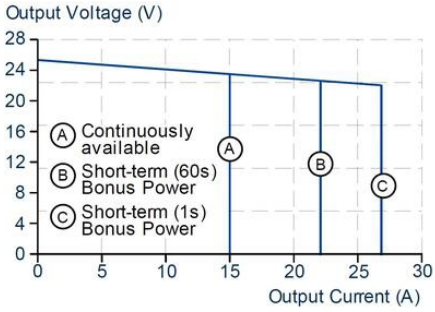
The FPT300 is an industrial grade power supply for 3-phase networks and is incorporated in to a rugged wall-mount housing with IP65/67 protection.
It provides one floating, stabilized SELV/PELV output, which is galvanically separated from the input.
In case of an overload or load failure, the output offers hiccup-mode.
The most outstanding features of the FPS series are the compact size, the wide operational temperature range, the low input inrush current and the extremely high efficiencies, which are achieved by various technological design technologies.

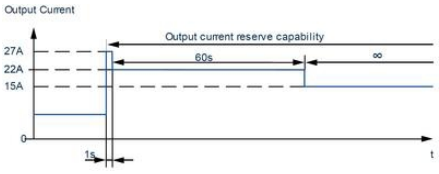
SPECIFICATIONS

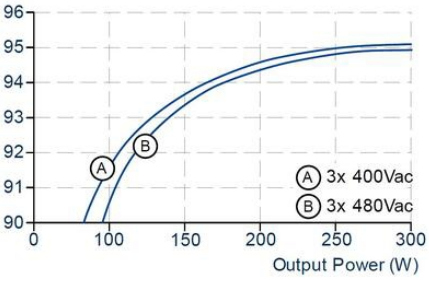
Active Transient	Yes
Approvals	CB, CE, cULus
Back-feeding loads	35V / 4,3 J
DC relay output	Yes
DC-OK/IO-link connector	M12-A
Depth	59
Effect	300
Efficiency At 400 V AC, full load. Typical	95
Efficiency At 400 V AC. Typical	93.6
Height	183
Hold-up time at 400 V AC, full load. Typical.	25
Input connector	HAN Q4/2
Input voltage AC	380-480

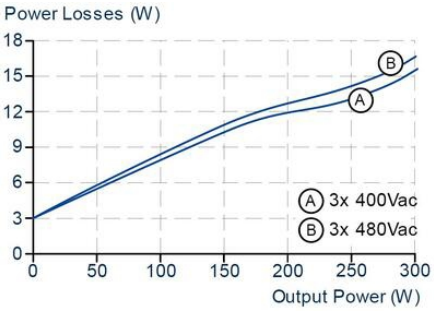
Input voltage ac max	552
Input voltage ac min	323
Inrush current at 400 V ac typical	2
IO-LINK	No
IP Class	IP65, IP67
Lifetime at 400 V ac, full load and +40 ° C	235000
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	838000
Number of phases	3
Output connectors	1x HAN Q4/0
Output Current	12.5
Output current max	25
Output voltage	24
Output voltage max	24
Output voltage min	24
Power consumption at 400 V ac	0.5
Power drop from +55 °C to + 70 °C	10
Power Factor at 400 V AC, full load. Typical	0.9
Ripple. max	100
Series	FIEPOS Basic
Supply Frequency	50-60 Hz ±6 %
Temperature Range Without Derating From	-25
Temperature Range Without Derating To	55
Total output power <+45°C	360
Total output power <+55°C	300
Total output power <+70°C	150
Total output power <1 min	484
Total output power <1 s	640
Total output power <5 s, <+55°C	600
Weight	1.2
Width	182

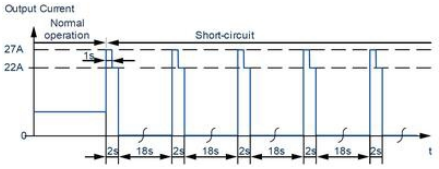

Allowed Output Power (W)
600
450
350
300
150
0
C
B
A
A continuous
B short term (max. 60s)
C short term (max. 1s)
-25
0
+45
+55
+70
Ambient Temperature (°C)


Output Voltage (V)
28
24
20
16
12
8
4
0
A Continuously available
B Short-term (60s) Bonus Power
C Short-term (1s) Bonus Power
0
5
10
15
20
25
30
Output Current (A)

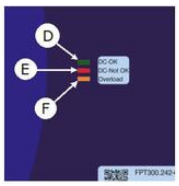

Output Current
Output current reserve capability
27A
22A
15A
60s
∞
0
1s
t

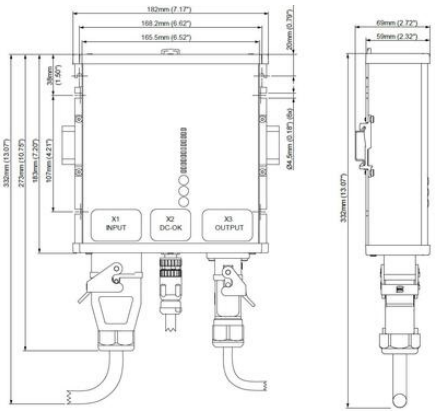

96
95
94
93
92
91
90
A
B
A 3x 400Vac
B 3x 480Vac
0
100
150
200
250
300
Output Power (W)

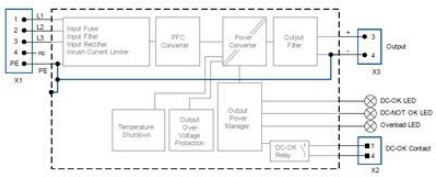

Power Losses (W)
18
15
12
9
6
3
0
B
A
A 3x 400Vac
B 3x 480Vac
0
50
100
150
200
250
300
Output Power (W)


Output Current
Normal operation
Short-circuit
27A
22A
1s
0
2s
18s
t


PULS


A. Input Connector
B. Output Connector
C. DC-OK Signal Connector
D. DC-OK LED
E. DC-NOT-OK LED
F. Overload LED
D
E
F
DC-OK
DC-Not OK
Overload


182mm (7.17")
168.2mm (6.62")
165.5mm (6.52")
X1 INPUT
X2 DC-OK
X3 OUTPUT
69mm (2.72")
59mm (2.32")


L1
L2
L3
PE
Input Fuse
Input Filter
Input Rectifier
Inrush Current Limiter
PFC Converter
Power Converter
Output Filter
Output
X1
X3
Temperature Shutdown
Output Over-Voltage Protection
Output Power Manager
DC-OK Relay
DC-OK LED
DC-NOT OK LED
Overload LED
DC-OK Contact
X2