

FAB1107005

Features

90-264Vac / 47-440Hz, PFC correction
Outputs : 15Vdc / 75W - 24Vdc / 150W
200*105*70mm - IP67
Surge and transient protected
Conduction cooled 95°C baseplate. Naval environment.

Safety IEC/EN 60950-1, RoHS lead-free-solder compliant



The FAB1107005, very compact AC-DC converter, incorporates input filtering, input and output protections, very robust mechanical mounting and connection, conformal coating, required in most of the severe environment for naval applications. The converter provides high reliability thanks to the integration of Vicor Corp. modules, high efficiency, input-to-output isolation, soft start, input over/undervoltage lockout. The converter is protected against surges and transients and EMI filtered built to meet MIL-STD 461. The output is continuously short-circuit proof. The 95°C baseplate operation allows operation in high temperature environment.

Electrical Input Data

Input		90-264Vac			Unit
Characteristics	Conditions	min	typ	max	
Operating input voltage	90-132Vac /47-440Hz	90	115	264	Vac
Frequency		47	50	440	Hz
Nominal input voltage		115		230	Vac
Input current	At Vin min			3,5	A
No-load input power	At Vin typ			25	W
Peak inrush current	Between Vin min and Vin max	12		26	A
Start-up time				5	s
Efficiency	200W, 85-264Vac	75	80	84	%

Electrical Output Data

Output		V1: 15V 75W			V2: 24V 150W			Unit
Characteristics	Conditions	min	typ	max	min	typ	max	
Output voltage		14,8	15	15,2	23,8	24	24,2	V
Overvoltage protection		17,1	17,8	18,5	27,1	28,1	29,1	V
Nominal output current			5			6,25		A
Max. output current			5			6,25		A
Output current limit				6,75			7,5	A
Output noise			75			80		mV
Hold up time			50			50		ms

Connector Pin Allocation

J1A : Type JD38999/24FC 26P N

PIN	Description
1	INPUT L
2	INPUT N
A	Inh+
B	Inh-
C, D	Not Connected
E, F	Not Connected

J2A : Type JD38999/24FC 04S N

PIN	Description
A, B	0V1
C, D	V1 +

J2B : Type JD38999/24FC 04S N

PIN	Description
A, B	0V1
C, D	V1 +

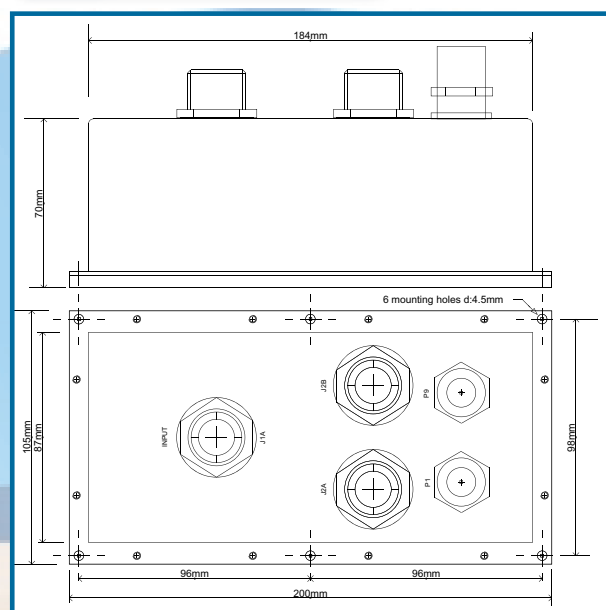
P1 Plug : Type FISHER SS 103 A054-140

PIN	Description
1, 2	V2 +
3, 4	0V2
5	GND

P9 Plug : Type JD38999/26FB 05S N

PIN	Description
A, D	V2 +
B, E	0V2
C	GND

Mechanical Data



Approvals

- E.M.I. MIL-STD 461E CE102 by inhouse measurement (no laboratory certification).

Signals

ON/OFF control (primary referred)

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