

AIQ00ZPFC-01NL

75 Watts

Data Sheet

Total Power: 75 Watts
Input Voltage: 100 - 122 Vac
of Outputs: Single

SPECIAL FEATURES

- Unity power factor
- High efficiency - up to 90%
- Civil/Aviation supply frequency range 360 - 800 Hz
- Up to 75 W output power
- Negative enable function
- RTCA-DO 160 compliant
- 100 °C baseplate operating temperature
- Enable output to control DC-DC converter
- Internal active switch bypassing external inrush current components

SAFETY

- UL cUL 60950 Recognized
- TUV EN60950 Licensed



Electrical Specifications

Input	
Input range:	100 - 122 Vac
Input surge:	180 Vac / 1s
Input frequency:	360 - 800 Hz
Efficiency ² :	90% @ 115 Vac, 75 W (Typical)
Total harmonic:	RTCA-DO 160 compliant
Power factor:	Up to 800 Hz @ > 25 W 0.99 typical (115 Vac; 50-360 Hz; 75 W) 0.98 typical (115 Vac; 800 Hz; 75 W)
Control	
LD enable:	Direct drive output to opto-isolator
PFC enable:	Neg TTL compatible
Voltage adjust:	-0% + 30% max.
Output	
Output voltage:	393 Vdc typical
Overvoltage protection:	430 Vdc
Output power limit:	90 W at Vin = 95 Vac
Isolation	
I/O isolation:	None
Input to base-plate:	2700 Vdc
Output to base-plate:	2700 Vdc
Leakage current:	< 1 mA at 800 Hz input frequency

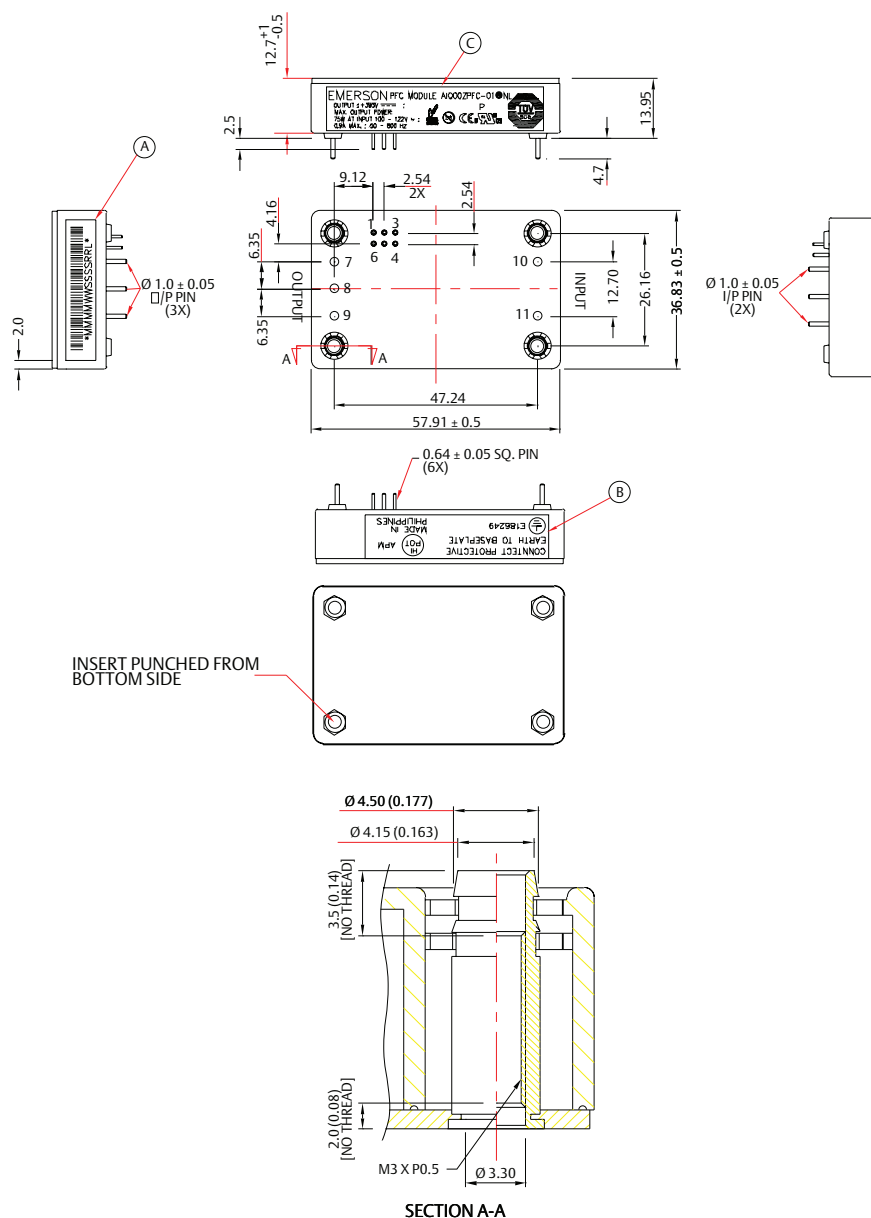
Environmental Specifications

Operating ambient temperature range:	-20 °C to +100 °C (baseplate temperature)
Storage temperature:	-40 °C to 120 °C
Overtemperature protection:	120 °C max.
Calculated MTBF:	> 1 million hours

Ordering Information

Model number	Description	Notes
AIQ00ZPFC-01NL	75 W Low Profile PFC Module	Negative Enabled

Mechanical Drawings



Pin Assignments

Input (AC)	Output (DC)	Control Pins
10. L1	7.0 Positive	1. PF Enable
11. L2	8.0 Negative	2. Voltage Adj.
	9.0 Inrush	3. Temp Mon.
		4. LD Enable
		5. PFW
		6. GND

Notes:

1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 1 year
3. Label and logo appearance may vary from what is shown on mechanical drawings..

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