

Advanced power management

Power supply and motor drive (PSMD) for chiller



The PSMD contains all the power generating system components to control compressor motor and fans for cabin beverage chiller equipment.

It includes the following functions:

- > Compatible with wild frequency network
- > Internal fault diagnostic (BITE) - improve reliability and avoid inflight failure
- > 580 W power supply for drive actuator for sensorless motor
- > Active power factor corrector rectifier - compatible with the last norms (including harmonics), last A/C
- > Protection against over current, over voltage, under voltage and over temperature - prevent damage to the motor

Key features

- 3 phases 115 Volts alternative current(VAC)-variable frequency- power input
- Active power factor corrector rectifier
- Sensorless motor drive

Applications

- Airbus civil aircraft
- Boeing civil aircraft

Contact

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Specifications

Electrical

Input voltage	3 phases 115 Volts alternating current(VAC)- variable frequency
Output	150 W/3phases- to brushless direct current electric motor (BLDC)
Active power factor corrector rectifier sensorless motor drive	25.5(Volts direct current)VDC/170W- insulated auxiliary power supply

Physical

Width	272 mm
Height	246 mm
Depth	79 mm
Weight	2 350 g

Environmental

Temperature	-15°C to +65°C (normal operating conditions) -40°C to +70°C (extended during 1 hour operating conditions)
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Note: Due to continuous process improvement, specifications are subject to change without notice

Functional diagram

