IS module power supply

8920-PS-DC

- *power for 2/1 (IS) modules*
- *12 V DC output*
- *24 V DC (nominal) input*
- *5 A capacity*
- *supports load sharing for redundancy*



MODULE SPECIFICATION

HAZARDOUS AREA APPROVALS

Location of power supply .....Safe area or
.....Class 1, Div 2, Group A, B, C, D hazardous location
.....Zone 2, IIC T4 hazardous area
Output .....Galvanically isolated
.....Voltage clamped; Un = 18 V

Applicable standards:

- Factory Mutual Research Co., Class No. 3611 for Class I, Division 2, Groups A, B, C, D hazardous locations
- Factory Mutual Research Co., Class No. 3610 for Class I, II, III, Division 1, Groups A - G hazardous locations (IS circuits)
- EN 50020:1994 Electrical apparatus for potentially explosive atmospheres, intrinsic safety "i"
- EC Directive 94/9/EC (ATEX)

ELECTRICAL

EMC compliance ..... To EN 50081-2 and EN 50082-2
.....generic emission/immunity standards
.....EN 61000-3-2:1995 EN 61000-3-3:1995
Electrical safety . EN 61010-1:1993 and Amendment A2:1995
.....and EN 61131-2:1994

OUTPUT

Output voltage.....12 V dc ± 5%
Output current .....5 A
Input/Output isolation 250 V ac rms(tested at 1500 V ac rms)

INPUT

Input voltage.....18.5–36 V dc
Efficiency (at full load)
18.5 V input at 4.1 A 76%
24 V input at 3.3 A.....78%
36 V input at 2.1 A 76.5%
Input connection .....2-part screw terminal, each duplicated
Cable size .....2.5 mm2 (max.)

ENVIRONMENTAL

Operating temperature (no forced ventilation)
(60% of full load) .....– 40°C to + 70°C
Optimum orientation(full load) .....– 40°C to + 55°C
Worst case orientation.....– 40°C to + 50°C
Storage.....– 40°C to + 85°C
Relative Humidity.....5 to 95% RH (non-condensing)
Vibration.....2 g @ 10-100 Hz to BS EN 60068-2-6
.....and BS 2011- part 2.1
Shock .....10 g, 11 ms pulse width, to BS EN60068-2-27
MTBF @ 50°C external ambient .....80,000 hrs
Ingress Protection.....IP20 to IEC 529/BS EN 60529
(tested on power supply carrier with all supply connectors in place)
Corrosive atmospheres: To withstand gaseous corrosion level G3 as defined by ISA Standard SP71.04:1995, when protected by a suitable field enclosure.

MECHANICAL

Dimensions (approx.).....84 (w) x 110 (h) x 160 (d) mm
Carrier mounting .....type 8724-CA-PS
Weight.....1290 g

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