MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GENERAL ELECTRIC

8913-PS-AC

DUAL-OUTPUT AC/DC POWER SUPPLY

Used with the applicable PAC8000 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: MTL 8913-PS-AC Power Supply Datasheet, July 2005; electrical ratings, derating and terminal allocation.

System Power - dual voltage

8913-PS-AC

- *system & field power for MTL8000 Process I/O*
- *12 V dc @ 5 A for system power*
- *24 V dc @ 5 A for auxilliary power*
- *input voltage 85–264 V ac or 90–264 V dc*
- *Zone 2 / Div 2 mounting*
- *supports parallel connection for redundancy†*



MODULE SPECIFICATION

See also System Specification

Location of power supply.....safe area or
.....Zone 2, IIC T4 hazardous area or
.....Class 1, Div 2, Groups A, B, C, D T4 hazardous location

ELECTRICAL

EMC compliance.....To EN 61000-2,3,4,5,6,11
.....EN 55011/22, EN 55014
Electrical safety.....To EN 60950

INPUT

Input voltage (AC) .....85–264 V ac
Input frequency (AC).....47–65 Hz
Input voltage (DC) .....90–264 V dc
Efficiency.....up to 87 %
Connections (Fig. 2).....2-part pluggable connector
Input protection.....slow-blow fuse and VDR*

OUTPUTS

Output 1 .....24.7 V dc ± 10%
Output 2 .....11.95 V dc ± 5%
Output 1 current (see Fig. 1) .....5 A (nom.)
Output 2 current.....5 A
Connections (Fig. 3).....2-part pluggable connector
Input-output isolation .....2800 V dc
Hold-up time (at full rated load).....15 ms (typ.)
Thermal protection.....reduced output power
Supply health indicator.....LED

POWER-FAIL SIGNALLING - Output 2 only

Threshold to trigger "power-fail" signal .....11.33 V (max.)
.....10.30 (min.)

Power-fail signal output (open collector)

Power supply "OK".....Low impedance to –ve of o/p 2
Power supply "failure" .....High impedance to –ve of o/p 2

(Up to 8 power fail signals can be monitored by the 8510-NS-MO module when it is fitted on the 8718-CA-NS carrier.)

† internal load-sharing diode on 12V output only
* voltage dependent resistor

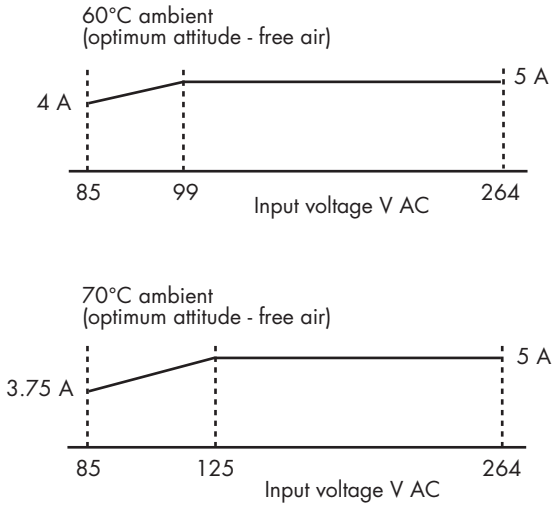
ENVIRONMENTAL

Operating ambient temperature.....–40° to +70°C
Maximum operating case temperature.....+80°C
Storage temperature.....–40° to +100°C
Relative humidity.....93 %, 40°C for 56 days

MECHANICAL

Dimensions (see Fig 4).....103 (w) x 138 (h) x 113.6 (d) mm
Mounting methods .....35 mm x 7.5 mm T-section DIN rail
(see also Accessories overleaf)
Weight.....750 g

Figure 1 - Output current de-rating (24 V output only)



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System Power - dual voltage

8913-PS-AC continued

TERMINAL ASSIGNMENTS

Input connector screw terminals

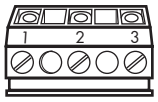


Figure 2 - AC input power

Terminal	Des.	Description
1	⏚	Protective earth
2	N ~	Input neutral
3	L ~	Input live

Output connector screw terminals

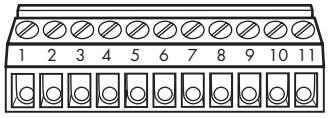


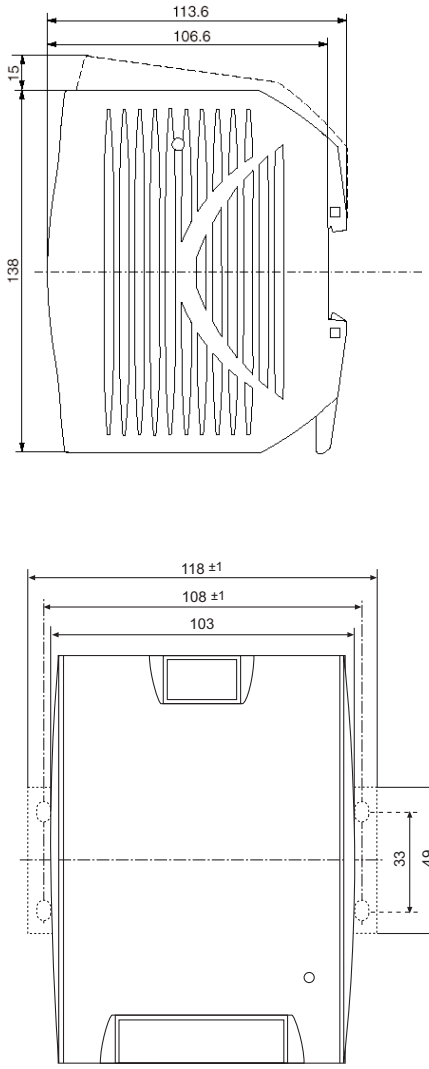
Figure 3 - DC output power

Terminal	Des.	Description	
1	⏚	Protective earth	
2	+	Output 1 + ve	24 V DC
3	+	Output 1 + ve	
4	–	Output 1 – ve	
5	–	Output 1 – ve	
6	+	Output 2 + ve	12 V DC
7	+	Output 2 + ve	
8	–	Output 2 – ve	
9	–	Output 2 – ve	
10	Aux.	Power fail signal	
11	⏚	Protective earth	

ACCESSORIES

Heavy duty DIN rail mounting kit† 8413-FK-DN
Surface panel mounting kit.....8414-FK-SU
† For larger amplitude vibration environments

Figure 4 - Outline and fixing dimensions



APPROVALS

Authority	Standards	Certificate No.
FM	No. 3600/3611	3011821
TÜV	EN50021	TÜV01ATEX1774X
CSA	2258 02	1368864

Applicable standards:

- Factory Mutual Research Class No. 3600/3611 for Class I, Division 2, Groups A, B, C, D hazardous locations
- ATEX Directive 94/9/EC Category 3 - ⟨Ex⟩ II 3 G
- CENELEC standard EN50021:1999 EEx n A II T4
- CSA International - Class 2258 02

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