## 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

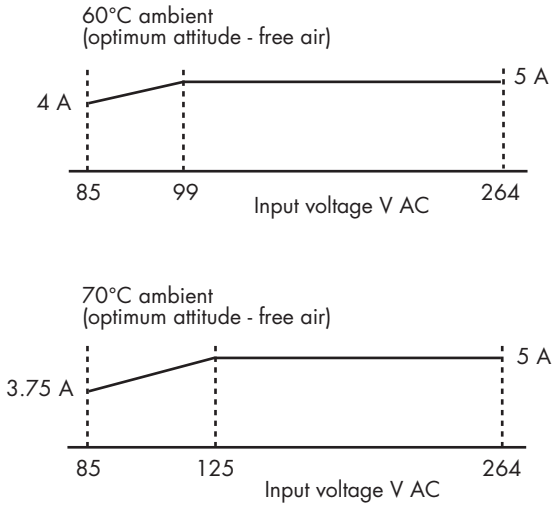
### ENVIRONMENTAL

**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**

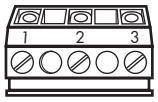



**Figure 2 - AC input power**

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

**Output connector screw terminals**

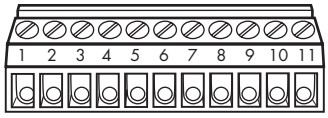


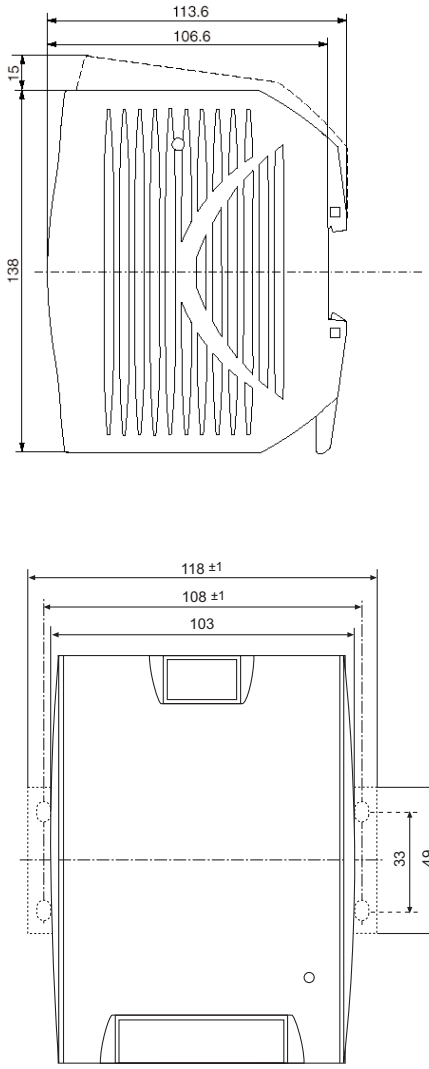

**Figure 3 - DC output power**

| 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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