

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 supplysafe area or
Zone 2, IIC T4 hazardous area or
Class 1, Div 2, Groups A, B, C, D T4 hazardous location

ELECTRICAL

EMC complianceTo EN 61000-2,3,4,5,6,11
EN 55011/22, EN 55014

Electrical safetyTo EN 60950

INPUT

Input voltage (AC)85–264 V ac

Input frequency (AC)47–65 Hz

Input voltage (DC)90–264 V dc

Efficiencyup to 87 %

Connections (Fig. 2)2-part pluggable connector

Input protectionslow-blow fuse and VDR*

OUTPUTS

Output 124.7 V dc \pm 10%

Output 211.95 V dc \pm 5%

Output 1 current (see Fig. 1)5 A (nom.)

Output 2 current5 A

Connections (Fig. 3)2-part pluggable connector

Input-output isolation2800 V dc

Hold-up time (at full rated load)15 ms (typ.)

Thermal protectionreduced output power

Supply health indicatorLED

POWER-FAIL SIGNALLING - Output 2 only

Threshold to trigger "power-fail" signal11.33 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 humidity93 %, 40°C for 56 days

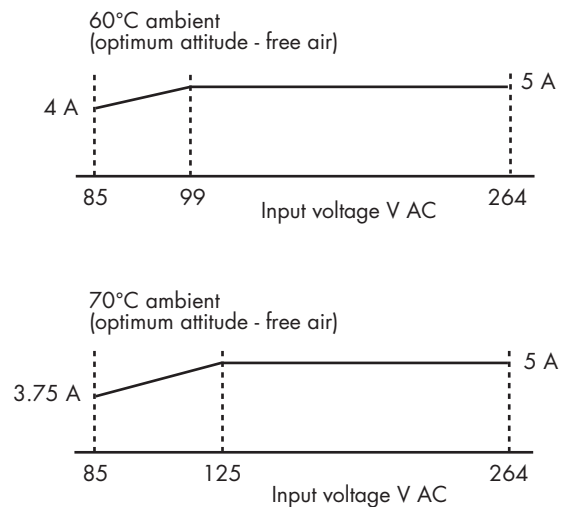
MECHANICAL

Dimensions (see Fig 4)103 (w) x 138 (h) x 113.6 (d) mm

Mounting methods35 mm x 7.5 mm T-section DIN rail
 (see also Accessories overleaf)

Weight750 g

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



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continued

TERMINAL ASSIGNMENTS

Input connector screw terminals

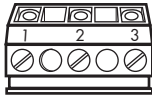


Figure 2 - AC input power

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

Output connector screw terminals

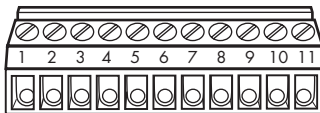


Figure 3 - DC output power

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	

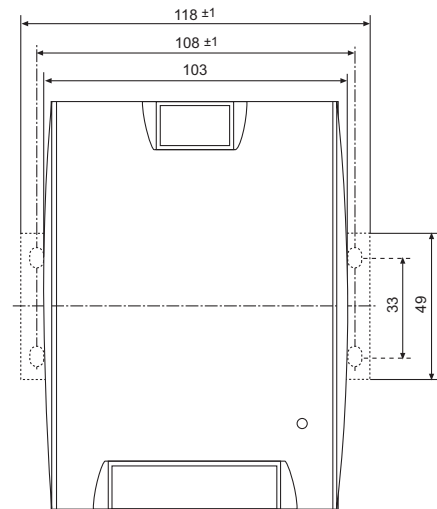
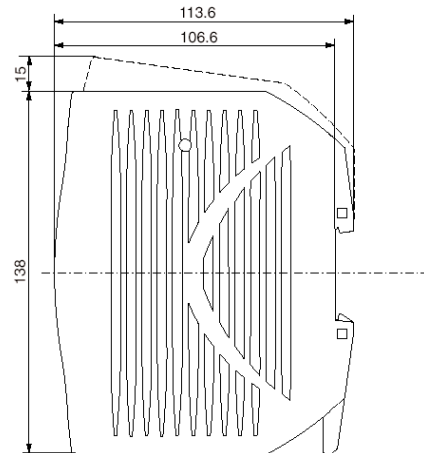
ACCESSORIES

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 - II 3 G
- CENELEC standard EN50021:1999 EEx n A II T4
- CSA International - Class 2258 02

