

# MTL5991 24V DC POWER SUPPLY



The MTL5991 provides a convenient source of power for MTL5000 series units in locations where a dc supply is not readily available. The 2A capability at 24V dc is sufficient to drive at least 13 MTL5000 series modules, or more in appropriate combinations. The wide mains power supply range makes this unit universally applicable.

## SPECIFICATION

### Power supply

85 to 264V ac  
47 to 63Hz

### Power dissipation within unit

7.2W @ 2A

### Mounting

35mm DIN (top hat) rail

### Output voltage

24V dc nom  
(23.64 min/24.36 max)

### Output current

2A maximum  
(1.7A with <105V ac input)

### LED indicators

Green: Power

### Weight

310g

### Ambient temperature

Operating temperature -10°C to +50°C  
Storage temperature -40°C to +85°C

### Dimensions

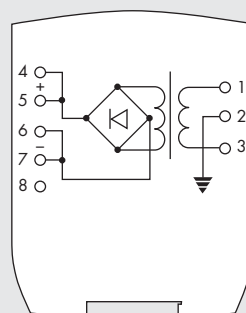
Height (above rail) 107mm  
Width 90mm  
Rail length required 38mm

### Terminals

Cage clamp type accommodating conductors up to 2.5mm<sup>2</sup>, stranded or single-core

*Note: Segregation between hazardous and safe area wiring must be maintained.*

## Safe area



Terminal	Function
1	AC line
2	Earth
3	AC neutral
4	+24V
5	+24V
6	0V
7	0V
8	Do not use

MTL5000 unit	Current Drawn mA (Vs=24V)	Maximum number of units
MTL5011B	35	46
MTL5012	30	53
MTL5014	45	36
MTL5015	44	36
MTL5017	50	32
MTL5018	60	27
MTL5023	100	16
MTL5024	100	16
MTL5031	80	20
MTL5032	65	25
MTL5040	95	17
MTL5041	70	23
MTL5042	75	21
MTL5044	110	15
MTL5045	50	32
MTL5046	65	25
MTL5049	65	25
MTL5051	90	18
MTL5073	57	28
MTL5074	68	24
MTL5081	20	80
MTL5082	55	29
MTL5113	70	23
MTL5114	60	27
MTL5314	85	19
MTL5344	122	14
MTL5349	67	25

*Note: The maximum current draw from the load unit is taken at 24V. The maximum current drawn from the MTL5991 was taken to be 1.6A*



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