

MINI-SYS-PS-100-240AC/24DC/1.5 - Power supply unit



2866983

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Please use the following item in new systems: 2904614
Primary-switched MINI POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/1.5 A

Product Description

MINI POWER power supplies for MCR technology

In measurement and control technology (MCR), modular electronics housing has become the industry standard. MINI POWER is the power supply unit to go with it. The devices are flexible, thanks to special voltages and special versions.

Your advantages

- Easy-maintenance connection technology thanks to keyed COMBICON connectors
- For supplying the supply voltage via the foot element (DIN rail connector) where AC voltages are available
- 100 V AC ... 240 V AC nominal input voltage range
- 24 V DC output voltage
- For up to 60 MINI Analog modules
- For up to 1.5 A, secondary
- Status and error indication via diagnostic LEDs

Commercial Data

Item number	2866983
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C11
Product Key	CMPM13
Catalog Page	Page 276 (C-4-2019)
GTIN	4017918960650
Weight per Piece (including packing)	288 g
Weight per Piece (excluding packing)	250 g
Customs tariff number	85044030
Country of origin	CN

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Technical Data

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
Input voltage range AC	85 V AC ... 264 V AC
Voltage type of supply voltage	AC
Inrush current	< 15 A (0.6 A ² s)
Inrush current integral (I ² t)	0.6 A ² s
AC frequency range	45 Hz ... 65 Hz
Mains buffering time	typ. 35 ms (120 V AC) typ. 150 ms (230 V AC)
Current consumption	0.75 A (120 V AC) 0.45 A (230 V AC)
Nominal power consumption	90 VA
Protective circuit	Transient surge protection; Varistor
Typical response time	< 0.5 s
Input fuse	3.15 A (slow-blow, internal)
Permissible backup fuse	B6 B10 B16
Recommended breaker for input protection	6 A ... 16 A (Characteristics B, C, D, K)

Output data

Efficiency	> 84 % (for 230 V AC and nominal values)
Output characteristic	U/I
Nominal output voltage	24 V DC \pm 1 %
Nominal output current (I _N)	1.5 A (-25 °C ... 60 °C)
Output current limit	7 A (in the event of a short-circuit)
POWER BOOST (I _{Boost})	2 A (-25 °C ... 40 °C permanent)
Derating	60 °C ... 70 °C (2.5%/K)
Feedback voltage resistance	35 V DC
Protection against overvoltage at the output (OVP)	< 30 V DC
Max. capacitive load	unlimited
Control deviation	< 1 % (change in load, static 10 % ... 90 %) < 3 % (change in load, dynamic 10 % ... 90 %) < 0.1 % (change in input voltage \pm 10 %)
Residual ripple	< 40 mV _{PP} (20 MHz)
Short-circuit-proof	yes
Output power	36 W
Peak switching voltages idling	< 20 mV _{PP} (20 MHz)
Peak switching voltages nominal load	< 20 mV _{PP} (20 MHz)
Maximum no-load power dissipation	1.5 W
Power loss nominal load max.	6.5 W
Rise time	< 2 ms

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Connection in parallel	yes, for redundancy and increased capacity. Maximum of 2 devices for redundancy on DIN rail connector.
Connection in series	No
Signal: DC OK floating	
Output description	$U_{OUT} > 21.5 \text{ V}$: Contact closed
Maximum switching voltage	$\leq 30 \text{ V AC/DC}$
Output voltage	30 V AC/DC
Continuous load current	$\leq 1 \text{ A}$

Connection data

Input

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Output

Connection method	Pluggable screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Signal

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