

Power Supply PS1040

FEATURES & BENEFITS

- Universal AC input
- Short circuit, overload, over voltage protection
- Air convection cooling
- DIN rail installation
- Built in DC OK active signal
- NEC class 2/ LPS compliant
- Power on LED indicator
- No load power consumption <0.75W
- 100% full burn-in tested



Part Number
32103-3

Product Description

The PS1040 product is a slim-design, DIN rail mounted Class I switching power supply featuring fully isolated plastic cases, extended operating temperatures from -20° to 70°C and 88% efficiency.

Standard features include short circuit, overload, and over voltage protection, no load power consumption, and DC OK signal for monitoring status of the power supply unit.

SPECIFICATIONS



HARDWARE

Enclosure	UL Compliant Fully Isolated Plastic Housing
Installation Method	DIN RAIL (35MM)
DIN Rail Spec	TS35/7.5 or TS35/15
LED Indicators	Output Voltage Status
Dimensions	3.9" x 1.6" x 3.5"
Product Weight	0.55 lb

INPUT SPECIFICATIONS

Connector Type	Screw Terminals
AC Voltage Range	85 - 264VAC
Frequency Range	47 - 63Hz
DC Voltage Range	120 - 370VDC
Efficiency (Typ.)	88%
AC Current (Typ.)	1.1A / 115VAC 0.7A / 230VAC
Cold Start Inrush Current	30A / 115VAC 60A / 230VAC
Leakage Current	< 1mA / 240VAC
No Load Power Consumption	< 0.75W

OUTPUT SPECIFICATIONS

Connector Type	Screw Terminals
DC Voltage	24VDC
Rated Current	1.7A
Current Range	0 - 1.7A
Rated Power	40.8W
Voltage Adjustable Range	24 - 30VDC
Voltage Tolerance	±1%
Ripple and Noise (Max.)	150mVp-p
Output Load Derating	60% of full load at 70°C
Line Regulation	±1%
Load Regulation	±1%
Set-Up, Rise Time	500ms, 30ms / 230VAC 500ms, 30ms / 115VAC at Full Load
Hold Up Time (Typ.)	50ms / 230VAC 20ms / 115VAC at Full Load
DC OK Active Signal	Relay Contact Rating: 30V/1A

PROTECTION SPECIFICATIONS

Short Circuit/ Overload	
<i>Overload Power</i>	105 - 150% of rated output power
<i>Overload Protection Type</i>	Constant Current Limiting Recovers automatically after fault condition is removed
Over Voltage	
<i>Rated Voltage</i>	31.2 - 36VDC
<i>Over Voltage Protection Type</i>	Shutdown output voltage, re-power on to recover

ENVIRONMENTAL SPECIFICATIONS

Air temperature	
<i>System On</i>	-20 to 70° C
<i>System Off</i>	-40 to 85° C
Operating Humidity (non-condensing)	20% to 90%
Vibration	
<i>Component :</i>	10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
<i>Mounting :</i>	Compliance to IEC60068-2-6
Mean time between failures	34.44 years

REGULATORY APPROVALS

Emissions	
	European Standard EN61204-3 European Standard EN55022 Class B Limit IEC 1000-3-2/EN61000-3-2: Harmonic Class A Limit IEC 1000-3-2/EN61000-3-2: Flicker
Immunity	
	European Standard EN61204-3 European Standard EN55024: IEC 1000-4-2/EN61000-4-2: Electrostatic Discharge (ESD) IEC 1000-4-3/EN61000-4-3: Radiated Radio-Frequency (RF) IEC 1000-4-4/EN61000-4-4: Fast Transient/Burst IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted Disturbance IEC 1000-4-8/EN61000-4-8: Magnetic field IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations
Safety	UL60950
Other	European Standard: 2002/95/EC Directive (RoHS)
Regulatory Approvals	



EXPORT INFORMATION

Packaged Shipping Weight	0.65 lb
Package Dimensions	4.5" x 2.0" x 4.1"
UPC Code	7-56727-32103.3
ECCN	4A994
Schedule B Number	8504.40.6007

APPLICATIONS

- Traffic and Transportation
- Industrial Automation
- Building Automation
- Power Generation
- Material Handling
- Military

ORDERING INFORMATION

32103-3 Power Supply PS1040 (24V, 40 watts)

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information

Comtrol offers a 30-day satisfaction guarantee and 3-year limited warranty.

Sales Support

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Technical Support

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