



## PS1040 24V, 40W DIN Rail

Part Number: 32103-3



### KEY FEATURES AND 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

### 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

Overload Power

105 - 150% of rated output power

Overload Protection Type

Constant Current Limiting Recovers automatically after fault condition is removed

### Over Voltage

Rated Voltage 31.2 - 36VDC

Over Voltage Protection Type

Shutdown output voltage, re-power on to recover

## ENVIRONMENTAL SPECIFICATIONS

### Air temperature

System On -20 to 70° C

System Off -40 to 85° C

### Operating Humidity (non-condensing)

20% to 90%

### Vibration

Component :

10 - 500Hz, 2G 10min./1cycle, period for 60min.

each along X, Y, Z axes

Mounting :

Compliance to IEC60068-2-6

### Mean time between failures

34.44 years

## EXPORT INFORMATION

### Package 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

### Warranty

3 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: RoHS 2 compliant under CE

### Regulatory Approvals



### Warranty Information

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

### Sales Support

+1.763.957.6000  
sales@comtrol.com

### Technical Support

+1.763.957.6000  
www.comtrol.com/support

### Email, FTP, and Web Support

info@comtrol.com  
ftp.comtrol.com  
www.comtrol.com