

PULS ML60.242

Part Number: 32112-5



KEY FEATURES AND BENEFITS

- Wide operating temperature range for extreme and outdoor applications
- Compact DIN rail design
- 100-240V input range
- Adjustable output voltage
- Up to 90.4% efficiency
- NEC Class 2/LPS Compliant
- No load power consumption < 0.75W

PRODUCT DESCRIPTION

The PULS ML60.242 is a compact, industrialclass DIN rail power supply designed for harsh environments where inrush current limitation and wide temperature capabilities are required. The ML60.242 features high immunity against electrical disturbances and operates in an extended temperature range to reliably function in even the most demanding environments. Standard features include low no-load losses, excellent partial load efficiency, and an operating temperature range compliant with the NEMA TS2 traffic standard.

SPECIFICATIONS

HARDWARE

Enclosure UL Compliant Fully Isolated Plastic Housing Enclosure Degree of Protection IP20 Installation Method DIN Rail (35MM) DIN Rail Mounting TS35/7.5 or TS35/15 LED Indicators Output Voltage Status Dimensions (D x W X H) 3.58" x 1.77" x 2.95" Product Weight 0.55 lb

INPUT SPECIFICATIONS

Connector Type Screw Terminals Wire Gauge 10-20AWG Recommended Tightening Torque 9lb.in AC Voltage Range 85 ~ 264VAC Frequency Range ~ 63Hz AC Input Current 0.66A / 230VAC 1.05A / 120VAC DC Voltage Range 88~3 DC Input Current 0.22A / 300VDC 0.62A / 110VDC Efficiency Cold Start Inrush Current (Max.) No Load Power Consumption < 0.85W Leakage Current

< 0.85mA

OUTPUT SPECIFICATIONS

Connector Type Screw Terminals Wire Gauge 10-20AWG Recommended Tightening Torque 9lb.in DC Voltage 24VD Voltage Adjustable Range 28VD Rated Current (Max.) 2 54 Current Range 0~2.5A Rated Power 60W **Output Load Derating** 1.5W/ °C from 60 to 70° C Ripple and Noise (Max.) 50mVp-p, 20Hz – 20MHz Line Regulation (Max.) 10mV Load Regulation (Max.) 100m\ Turn-on Overshoot (Max.) 200mV Start-up Delay 90ms/ 230VAC 110ms / 120VAC **Rise** Time



60ms/ 230VAC 50ms/ 110VAC Hold-up Time 107ms / 230VAC at Full Load 24ms / 120VAC at Full Load

PROTECTION SPECIFICATIONS Short Circuit/ Overload

Overload Protection Type Electronically limited Output voltage dips during overload Over Voltage Rated Voltage 31 ~ 32.5VDC Over Voltage Protection Type Shutdown output voltage, re-power required to recover Input Transient Protection Metal Oxide Varistor (MOV) Internal Input Fuse 3.15A / 250VAC

SAFETY AND DIELECTRIC STRENGTH SPECIFICATIONS

Input / Output Separation
SELV per IEC/EN
60950-1
PELV per IEC/EN
60204-1, EN 50178,
IEC 62103,
IEC 60364-4-41
Isolation Resistance
> 5Mohm Input to output, 500VDC
Dielectric Withstanding Voltage
Input to Output to Earth Ground 2000VAC
Output to Earth Ground 2000VAC

ENVIRONMENTAL SPECIFICATIONS

Air Temperature System On System Off **Operating Humidity** 5% to 95% r.H. Vibration 2 –17.8Hz: ±1.6mm 17.8 – 500Hz: 2g 2 hours/ axis Shock 15g 6ms, 10g 11ms 3 bumps / direction, 18 bumps in total Altitude 0 to 6000m Altitude De-rating 4W / 1000m or 5°C/1000m from 2000m to 6000m MTBF (Mean Time Between Failures) 367.1 years

EXPORT INFORMATION Packaged Shipping Weight

0.75 lb Package Dimensions (L x H x W) 5.9" x 2.4" x 5.5" UPC Code 8-75404-00160-9 ECCN 4A994 Schedule B Number 8504.40.6007 Warranty 3 Years -40 to 74°C -40 to 85°C

REGULATORY APPROVALS Emissions

European Standard EN55011 European Standard EN55022 Class B Limit AS/NZS CISPR11, CISPR 22 Class B Limit FCC Part 15 Class B Limit IEC 1000-3-2/EN61000-3-2: Harmonics IEC 1000-3-2/EN61000-3-3: Limitation of Voltage Fluctuations and Flicker Immunity European Standard 61000-6-1 European Standard 61000-6-2 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 1000-4-11/EN61000-4-11: Dips and Voltage Variations Safety UL508 UL60950 Other

European Standard: RoHS 2 compliant under CE Regulatory Approvals



Note: Unless otherwise specified, the specifications listed are typical or nominal values

Warranty Information

Comtrol 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

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