



SurgeFree™

MODEL

PLC-15A

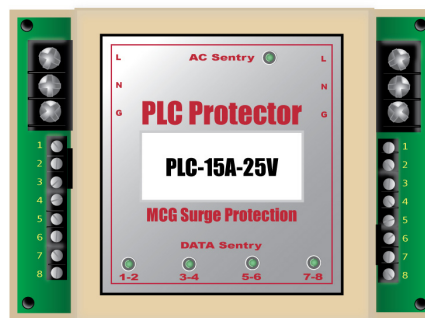
Programmable Logic Controller Protector

A fast-rising transient on AC power lines or data lines can upset systems logic - requiring costly shutdown to reset equipment. Replacing damaged controllers can sideline your operation indefinitely. Installed at the controller, the MCG PLC-15A answers the need for compact, dependable protection in a hostile factory environment.

The PLC-15A installs easily in minutes and eliminates factory noise and transients appearing on the AC and data lines that feed the controller. LEDs monitor the power and data lines to assure proper operation.

FEATURES

- Rugged protection for both AC power lines and data lines in one convenient unit.
- Compact, space efficient, and easy to install - the PLC-15A offers quick, hardwired installation in locations where space is limited.
- Sine Wave Tracking offers superior noise attenuation on the AC power line.
- Fast clamping response. In less than one nanosecond, transients are intercepted and safely diverted to ground.



20-Year Warranty

General Specifications

Operating Altitude: 13,000 ft. (4000m)
 Temp. (Operating/Storage): -40° to +70° C/-40° to +85° C
 Dimensions: 4.95" x 4.36" x 1.25" (126 x 111 x 32mm)
 Mounting: 4.20" x 3.75"/0.185" ID – 4 holes (107 x 96mm/4.7mm)
 Weight: <1lb (0.45kg)
 Certification: UL1449/UL497B recognized component

AC Specifications

Rated Voltage (50/60/400Hz): 120VAC, 1Ph, (Hot, Neutral, & Ground)
 Rated Current (rms) @ 25° C: 15A (internally-fused)
 Max. Continuous Operating Voltage: 130% nominal
 Clamp Voltage (1mADC): 270VDC
 UL1449 Suppressed Voltage Rating SVR (6kV, 500A Biwave): 400V
 Suppression Voltage (6kV, 3kA Biwave): 430V
 Energy Absorption: 1140 joules total
 Connection: Connects in series with load
 Modes of Protection: L-N, L-G, N-G
 Response time: <5 ns
 Surge Current 8/20 (microseconds): 1 Event: 10kA
 100 Events: 2kA
 1000 Events: 1kA
 10,000 Events: 500A
 Filter Attenuation (50 Ohm): -20dB@30kHz
 -40dB@300kHz
 -60dB@1.4MHz

Status Indicator: Green LED
 Terminal Block: 6-32 screw, barrier style, Torque Max: 9 in. lb. (1.02Nm)
 Wire Gauge Range: 30-12 AWG (0.05-3.31mm²)

Data Line Specifications

Response time: <1 nanosecond
 Available Voltages: 6V (RS422, 423,485)
 25V (RS232)
 60V (T1/E1)
 200V (Dial up Lines)
 Attenuation: <1dB@10MHz
 System Current Continuous: 1A Max
 Response time: <1 ns
 Protection Capacity: 4 data pairs
 Peak Power: 1500W (10/1000 microsecond) per wire
 Status Indicator: LED/pair*
 Terminal Block: Cage clamp style, Torque Max: 3.5 in. lb. (0.4Nm)
 Wire Gauge Range: 26-14 AWG (0.13-2.08mm²)

*Note: Lights are nonfunctional for single-ended applications such as RS232 and RS423. For current loops, lights must be disconnected. See Installation Instructions.



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