

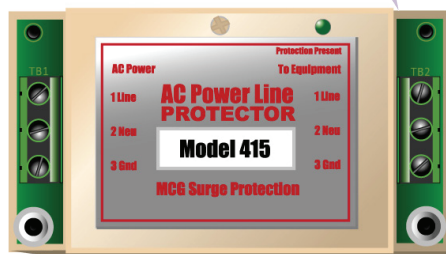
SurgeFree™

MODELS

400 Series

Equipment Level Protection

The 400 Series installed at or within a piece of equipment (PLCs, fire alarm monitoring systems, security controls, etc.) provides compact, heavy-duty surge suppression. Now with touch-safe terminal blocks, the units offer an elevated level of personnel protection. Employing a sophisticated combination of brute force surge protection and EMI/RFI filtering, they will prevent damage or malfunction to sensitive equipment. The 400 Series comes with a no-nonsense, twenty-year warranty.



20-Year Warranty

UL 1449 4th Ed. Recognized Component

| The 400 Series | 407* | 415* | 416* | 417* |
|------------------------------------|--------|---------|---------|---------|
| Rated Voltage (50/60Hz) | 120VAC | 120VAC | 120VAC | 240VAC |
| Rated Current (rms.) @25°C | 15A | 15A | 23A | 23A |
| Service (Phase) | 1 | 1 | 1 | 1 |
| Surge Current in kA (8/20 μ s) | 10 | 10 | 10 | 10 |
| Clamp Voltage (1mA DC) | 270V | 270V | 270V | 500V |
| UL1449 4th Ed. MLV** (L-N): | 480V | 480V | 480V | 890V |
| UL1449 4th Ed. MLV** (L-G): | 540V | 590V | 590V | 1080V |
| UL1449 4th Ed. MLV** (N-G): | 540V | 590V | 590V | 1090V |
| Surge Energy (Joules) 8/20 μ s | 1460 | 1140 | 1140 | 2300 |
| Filter Attenuation (50 ohm): | -20db | 30 kHz | 30 kHz | 30 kHz |
| | -40db | 300 kHz | 300 kHz | 260 kHz |
| | -60db | 1.4 MHz | 1.0 MHz | 700 kHz |

** MLV = Measured Limited Voltage

| | |
|---------------------------------------|---|
| SPD Type: | Type 5 component assembly |
| I_n : | 3kA |
| Max. Continuous Operating VAC (MCOV): | 115% Rated Line Voltage |
| Varistor MCOV: | 150% (407/415/416); 130% (417) Rated Line Voltage |
| SCCR: | 5kA AIC (with external encl. and OCP) |
| Response Time: | <5 Nanoseconds |
| Modes of Protection: | L-N, L-G, N-G |
| Surge Current (L-N, 8/20 μ s): | 1 Event: 10kA, 100 Events: 2kA, 1000 Events: 1kA, 10,000 Events: 500A |
| Status Indicators: | Green LED |
| Wire Gauge Range: | 26-10 AWG (0.13-5.27mm ²) |
| Operating Altitude: | 13,000 ft. (4000m) |
| Temp. (Operating/Storage): | -40° to +70°C/-40° to +85°C |
| Enclosure: | High Impact Plastic |
| Dimensions: | 4.95" x 2.85" x 1.25" (126 x 73 x 32mm) |
| Mounting: | 4.20" x 2.25"/.185 ID - 4 holes (107 x 57mm/4.7mm) |
| Connection: | Screw Clamp Terminal Blocks |
| Screw Torque Max. | 5.3in. lbs./0.6Nm |
| Weight: | <1 lb., (.45kg) |
| UL File Number: | E322161 |
| Certification: | UL1449 4th Ed. Recognized Component |
| | RoHS Compliant, "-RHS" models only |

* Note: For DIN-rail mount unit, add "-DIN" to model name i.e. 415-DIN

For RoHS compliant unit, add "-RHS" to model name i.e. 415-RHS-DIN



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