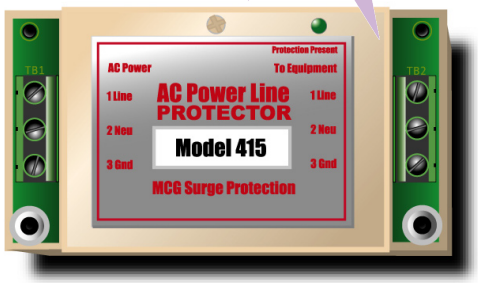
SurgeFree™

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.

DIN Rail Available



20-Year Warranty

Model	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 (8/20µs)	10	10	10	10
Clamp Voltage (1mA DC)	270V	270V	270V	500V
UL1449 3rd Ed. VPR (L-N):	500V	500V	500V	900V
UL1449 3rd Ed. VPR (L-G):	600V	600V	600V	1000V
UL1449 3rd Ed. VPR (N-G):	600V	600V	600V	1000V
Surge Energy (Joules) 8/20µs	1460	1140	1140	2300
Filter Attenuation (50 ohm) : -20db	30 kHz	30 kHz	30 kHz	30 kHz
-40db	300 kHz	300 kHz	300 kHz	260 kHz
-60db	1.4 MHz	1.4 MHz	1.0 MHz	700 kHz

SPD Type:	Type 4 for use in Type 2 applications
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, 8/20µs):	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 3rd. Ed. Recognized Component

MADE IN THE USA

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