



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

Model	405	415	416	417
Rated Voltage (50/60/400Hz)	120VAC	120VAC	120VAC	240VAC
Rated Current (rms.) @25°C	5A	15A	25A	25A
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 Surge Voltage Rating 6kV/500A	400V	400V	400V	700V
Suppression Voltage: Impulse (B3) 6kV/3kA	430V	430V	430V	760V
Surge Energy (Joules) 8/20µs	1140	1140	1140	2300
Filter Attenuation (50 ohm)	-20db	45 kHz	30 kHz	30 kHz
	-40db	150 kHz	300 kHz	260 kHz
	-60db	450 kHz	1.4 MHz	700 kHz

Max. Continuous Operating VAC:	130% Rated Line Voltage
Response Time:	<5 Nanoseconds
Modes of Protection:	L-N, L-G, N-G
Surge Current (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)
Dimensions (405 only):	4.95" x 4.36" x 1.25" (126 x 111 x 32mm)
Mounting (405 only):	4.20" x 3.75"/.185 ID - 4 holes (107 x 96mm/4.7mm)
Connection:	Screw Clamp Terminal Blocks
Screw Torque Max.	5.3in. lbs./0.6Nm
Weight:	<1 lb., (.45kg)



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