

Data Sheet

ELECTRICAL SURGE ARRESTER

PART NO. F5025-45

F5025-46

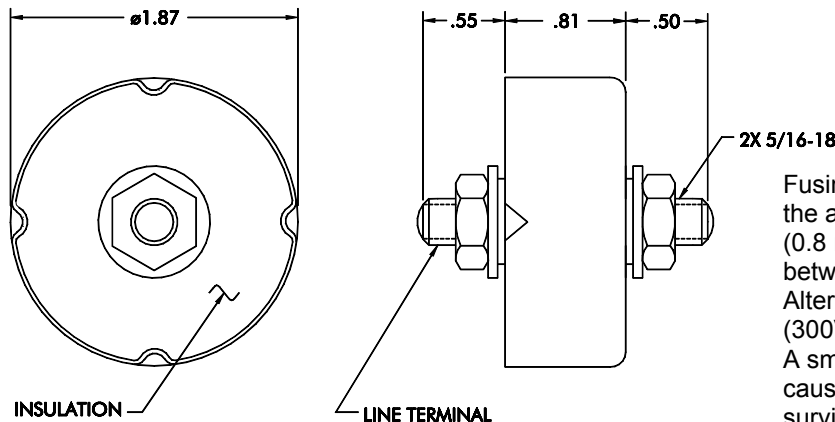
NSN 5920-01-267-4051

5920-01-242-1691



- General purpose lightning and surge protection for power circuits. Its compact size makes it highly suited for NEMP protection.
- Features Fully encapsulated for service in an uncontrolled environment.
- Construction Housing and studs tin are plated brass.

		F5025-45	F5025-46
• Nominal System Voltage Rating, Vn		120 Vac, 160 Vdc	277 Vac, 350 Vdc
• Maximum Continuous Operating Voltage		150 Vac, 200 Vdc	305 Vac, 390 Vdc
• Source Impedance		Unlimited	Unlimited
• System Frequency Rating		DC - 60 Hz	DC - 60 Hz
• Leakage Current at Vn, 60 Hz		<300 μ A	<350 μ A
• Capacitance, 1 kHz		<5 nF	<2.5 nF
• Response Characteristics	10 kV/ μ s	<400 V	<500 V
	100 kV/ μ s	<800 V	<900 V
	1 kV/ns	<1000 V	<1000 V
• Suppression Voltage	500 A, 100 kHz	<550 V	<900 V
	1.5 kA, 8/20 μ s	<530 V	<850 V
	5 kA, 8/20 μ s	<595 V	<1000 V
	10 kA, 8/20 μ s	<680 V	<1200 V
	20 kA, 8/20 μ s	<880 V	<1500 V
• Surge Life	1.5 kA, 8/20 μ s		3000 x
	5 kA, 8/20 μ s		200 x
	10 kA, 8/20 μ s		30 x
	20 kA, 8/20 μ s		6 x
	40 kA, 8/20 μ s		1x
• Operating Temperature			-40 to +80 C
• Operating Altitude			<6,000 m
• Weight			125 g
• Tightening Torque, both terminals, max			50 in-lb / 5.5 N-m



Fusing Coordination - If it is desired to isolate the arrester at its end of life, a 2" link of #20 AWG (0.8 mm) copper bus wire can be connected between the power main and arrester line terminal. Alternately, a Bussman FRN-R-40 (250V) or SC-40 (300V) can be used with the respective arrester. A smaller gauge wire or a lower fuse rating can cause 'nuisance' blowing during large but survivable surge events.