

Service Entrance Suppressor(F), 320 kA



The nVent ERICO SES320 F Series of Surge Protective Devices (SPD) is an enhanced version of our nVent ERICO SES320B Series. The SES320 F Surge-Filter is robust and features a 320 kA per phase surge rating, increasing both survivability and overall life cycle. With the addition of a filter, bothersome high frequency transients on the power distribution system are attenuated, therefore protecting sensitive equipment. The F Series is a cUL 1449 Listed SPD for Type 2 locations. Typical applications for the nVent ERICO SES320 F Series service entrances, distribution, branch panels, MCC, lighting panels, HVAC, A/V systems, IT equipment, and more.

CERTIFICATIONS



FEATURES

Compact design can be directly mounted to panel or installed in a small space

Front-facing design eases installation and performance monitoring

320 kA 8/20 μ s maximum surge rating per phase

Up to 60 dB attenuation (10 kHz to 100 MHz)

Ground reference monitoring triggers an alarm when N-PE mode exceeds 20 volts

Optional Flush Mounting Plate

10-year limited warranty

SPECIFICATIONS

Catalog Number	SES320F12 0240D	SES320F12 0V	SES320F20 8Y	SES320F24 0D	SES320F24 0V	SES320F48 0D	SES320F48 0Y	SES320F12 0240SP
Nominal System Voltage (Un)	120/240 V	120 V	120/208 V	240 V	240 V	480 V	277/480 V	120/240 V

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Max Continuous Operating Voltage (Uc)	180/275 V	180 V	150/300 V	275 V	350 V	550 V	350/700 V	180/360 V
Distribution System	3PhΔ 4W+G	1Ph 2W+G	3Ph Y 4W+G	3Ph Corner Gnd Δ 2W+G	1Ph 2W+G	3PhΔ 3W+G	3Ph Y 4W+G	1Ph 3W+G
Filtering	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz	-40 dB @ 100 kHz
Frequency	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz	0 - 600 Hz
Short Circuit Current Rating (SCCR)	200kA	200kA	200kA	200kA	200kA	200kA	200kA	200kA
Voltage Protection Rating (VPR), L-G	800V	800V	700V	900V	1200V	1800V	1200V	800V
Voltage Protection Rating (VPR), L-L	1200V 1500V		1000V	1200V		1800V	2000V	1200V
Voltage Protection Rating (VPR), L-N	800V 1000V	700V	600V		1200V		1200V	700V
Voltage Protection Rating (VPR), N-G	700V	600V	700V		1000V		1000V	600V
Nominal Discharge Current (In), Per Mode	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs
Max Discharge Current (Imax), Per Phase	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs	320kA 8/20 μs
Protection Modes	All modes protected	All modes protected	All modes protected	All modes protected	All modes protected	All modes protected	All modes protected	All modes protected

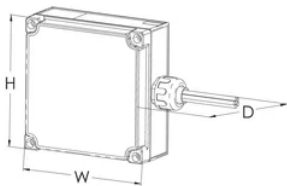
Catalog Number	SES320F12 0240D	SES320F12 0V	SES320F20 8Y	SES320F24 0D	SES320F24 0V	SES320F48 0D	SES320F48 0Y	SES320F12 0240SP
Status Indication	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm	1 green LED per line Dual color status LED, flashing red for faults Audible alarm
Remote Contact Switching Capacity	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V	2 A @ 240 V
Remote Contacts	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead Length	36"	36"	36"	36"	36"	36"	36"	36"
Lead Size imperial	#10	#10	#10	#10	#10	#10	#10	#10
Temperature	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F	-40 to 185 °F
Enclosure Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Enclosure Rating	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4	NEMA®-4X UL® 50E Type 4
Mounting	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple	3/4" straight nipple
Unit Weight	1.38 lb	1.38 lb	1.38 lb	1.38 lb	1.38 lb	1.38 lb	1.38 lb	1.38 lb
Certification Details	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode	CSA C22.2 No. 269.2 UL® 1283 Edition 7 UL® 1449 Edition 5 Type 2, 20 kA Mode

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Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.1-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.45-2002 Cat A, Cat B, Cat C Mil-Std 220A
Depth (D)	2.99"	2.99"	2.99"	2.99"	2.99"	2.99"	2.99"	2.99"
Height (H)	6.89"	6.89"	6.89"	6.89"	6.89"	6.89"	6.89"	6.89"
Width (W)	8.38"	8.38"	8.38"	8.38"	8.38"	8.38"	8.38"	8.38"

ADDITIONAL PRODUCT DETAILS

Optional Flush Plate available: SES320FP

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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