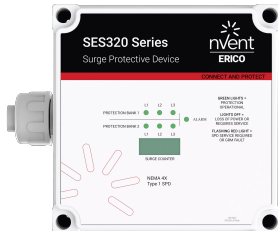


Service Entrance Suppressor(FC), 320 kA



The nVent ERICO SES320 FC Series of Surge Protective Devices (SPD) is an enhanced version of our nVent ERICO SES320BC Series. The robust SES320 FC Surge-Filter 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, ultimately protecting sensitive equipment. The FC Series is a cUL 1449 Listed SPD for Type 2 locations. Typical applications for the nVent ERICO SES320 FC 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 simplifies 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

Digital Surge Counter Utilizing Non-volatile Memory

SPECIFICATIONS

Table 1/5

Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Distribution System	Filtering	Frequency	Short Circuit Current Rating (SCCR)

SES320FC1202 40D	120/240 V	180/275 V	3PhΔ 4W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC1202 40S	120/240 V	180/360 V	1Ph 3W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC120V	120 V	180 V	1Ph 2W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC208Y	120/208 V	150/300 V	3Ph Y 4W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC240D	240 V	275 V	3Ph Corner Gnd Δ 2W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC240V	240 V	350 V	1Ph 2W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC480D	480 V	550 V	3PhΔ 3W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC480Y	277/480 V	350/700 V	3Ph Y 4W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA
SES320FC600Y	347/600 V	440/880 V	3Ph Y 4W+G	-40 dB @ 100 kHz	0 - 600 Hz	200kA

Table 2/5

Catalog Number	Voltage Protection Rating (VPR), L-G	Voltage Protection Rating (VPR), L-L	Voltage Protection Rating (VPR), L-N	Voltage Protection Rating (VPR), N-G	Nominal Discharge Current (In), Per Mode	Protection Modes
SES320FC1202 40D	800V, 900V	1200V, 1500V	800V, 1000V	700V	20kA 8/20 μs	
SES320FC1202 40S	800V	1200V	700V	600V	20kA 8/20 μs	
SES320FC120V	800V		700V	600V	20kA 8/20 μs	
SES320FC208Y	700V	1000V	600V	600V	20kA 8/20 μs	
SES320FC240D	900V	1200V			20kA 8/20 μs	
SES320FC240V	1200V		1200V	1000V	20kA 8/20 μs	

CatalogNumber	Voltage Protection Rating (VPR),L-G	Voltage Protection Rating (VPR),L-L	Voltage Protection Rating (VPR),L-N	Voltage Protection Rating (VPR),N-G	Nominal Discharge Current (In),Per Mode	Protection Modes
SES320FC480D	1800V	1800V			20kA 8/20 μ s	
SES320FC480Y	1200V	2000V	1200V	1000V	20kA 8/20 μ s	
SES320FC600Y	1500V	2500V	1500V	1500V	20kA 8/20 μ s	All modes protected

Table 3/5

Catalog Number	Max Discharge Current (Imax), Per Phase	Status Indication	Remote Contact Switching Capacity	Remote Contacts	Lead Length	Lead Size
SES320FC1202 40D	320kA 8/20 μ s	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC1202 40S	320kA 8/20 μ s	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC120V	320kA 8/20 μ s	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC208Y	320kA 8/20 μ s	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	

CatalogNumber	Max Discharge Current (Imax), Per Phase	Status Indication	RemoteContact Switching Capacity	Remote Contacts	Lead Length	Lead Size
SES320FC240D	320kA 8/20 μs	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC240V	320kA 8/20 μs	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC480D	320kA 8/20 μs	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC480Y	320kA 8/20 μs	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	914.4mm	
SES320FC600Y		1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm	2.0 A @ 240 V	Yes	914.4mm	6 mm ² Min

Table 4/5

Catalog Number	Temperature	Enclosure Material	Enclosure Rating	Mounting	Unit Weight	Certification Details
SES320FC1202 40D	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7

CatalogNumber	Temperature	Enclosure Material	Enclosure Rating	Mounting	Unit Weight	Certification Details
SES320FC120240S	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC120V	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC208Y	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC240D	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC240V	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC480D	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7
SES320FC480Y	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.626 kg	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7

CatalogNumber	Temperature	Enclosure Material	Enclosure Rating	Mounting	Unit Weight	Certification Details
SES320FC600Y	-40 to 85 °C	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	0.63 kg	CSA C22.2 No. 269.2, UL® 1283 Edition 7, UL® 1449 Edition 5 Type 2, 20 kA Mode

Table 5/5

Catalog Number	Complies With	Depth	Height	Width	Certifications
SES320FC120240D	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC120240S	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC120V	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC208Y	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL

Catalog Number	Complies With	Depth	Height	Width	Certifications
SES320FC240D	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC240V	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC480D	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC480Y	ANSI®/IEEE® C62.41.1-2002 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	75.946mm	175.006 mm	212.852 mm	cUL, UL
SES320FC600Y	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	75.95mm	175 mm	212.85 mm	

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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