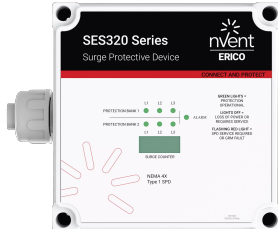


Service Entrance Suppressor(BC), 320 kA



The nVent ERICO SES320 BC Series of Surge Protective Devices (SPD) provides economical protection against damaging transients and surge currents. The BC Series is a cUL 1449 listed SPD for Type 1 and Type 2 locations, allowing for installation either on the line or load of service panels without requiring circuit breakers. With a 320 kA per phase surge rating, the SES320 BC is well suited for category C locations. Typical applications for the nVent ERICO SES320 BC Series include service entrances, distribution, branch panels, MCC, lighting panels, HVAC and more. Featuring a NEMA 4X enclosure rating, the B series is also appropriate for use in outdoor applications.

CERTIFICATIONS



FEATURES

- 320 kA 8/20 μ s maximum surge rating per phase
- Excellent clamping and low UL voltage protection ratings
- Features relay alarming for power/phase loss and status of SPD health
- Compact design can be directly mounted to panel or installed in a small space
- 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	Frequency	Short Circuit Current Rating (SCCR)	Voltage Protection Rating (VPR), L-G

SES320BC1202 40D	120/240 V	180/275 V	3PhΔ 4W+G	0 - 600 Hz	200kA	800V, 900V
SES320BC1202 40S	120/240 V	180/360 V	1Ph 3W+G	0 - 600 Hz	200kA	800V
SES320BC120V	120 V	180 V	1Ph 2W+G	0 - 600 Hz	200kA	800V
SES320BC208Y	120/208 V	150/300 V	3Ph Y 4W+G	0 - 600 Hz	200kA	700V
SES320BC240D	240 V	275 V	3Ph Corner Gnd Δ 2W+G	0 - 600 Hz	200kA	900V
SES320BC240V	240 V	350 V	1Ph 2W+G	0 - 600 Hz	200kA	1200V
SES320BC480D	480 V	550 V	3PhΔ 3W+G	0 - 600 Hz	200kA	1800V
SES320BC480Y	277/480 V	350/700 V	3Ph Y 4W+G	0 - 600 Hz	200kA	1200V
SES320BC600Y	347/600 V	440/880 V	3Ph Y 4W+G	0 - 600 Hz	200kA	1500V

Table 2/5

Catalog Number	Voltage Protection Rating (VPR), L-L	Voltage Protection Rating (VPR), L-N	Voltage Protection Rating (VPR), N-G	Nominal Discharge Current (In), Per Mode	Max Discharge Current (Imax), Per Phase	Protection Modes
SES320BC1202 40D	1200V, 1500V	800V, 1000V	700V	20kA 8/20 μs	320kA 8/20 μs	
SES320BC1202 40S	1200V	700V	600V	20kA 8/20 μs	320kA 8/20 μs	
SES320BC120V		700V	600V	20kA 8/20 μs	320kA 8/20 μs	
SES320BC208Y	1000V	600V	600V	20kA 8/20 μs	320kA 8/20 μs	
SES320BC240D	1200V			20kA 8/20 μs	320kA 8/20 μs	
SES320BC240V		1200V	1000V	20kA 8/20 μs	320kA 8/20 μs	

CatalogNumber	Voltage Protection Rating (VPR),L-L	Voltage Protection Rating (VPR),L-N	Voltage Protection Rating (VPR),N-G	Nominal Discharge Current (In),Per Mode	Max Discharge Current (Imax), Per Phase	Protection Modes
SES320BC480D	1800V			20kA 8/20 μ s	320kA 8/20 μ s	
SES320BC480Y	2000V	1200V	1000V	20kA 8/20 μ s	320kA 8/20 μ s	
SES320BC600Y	2500V	1500V	1500V	20kA 8/20 μ s		All modes protected

Table 3/5

Catalog Number	Status Indication	Remote Contact Switching Capacity	Remote Contacts	Lead Length	Lead Size imperial	Temperature
SES320BC1202 40D	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC1202 40S	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC120V	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC208Y	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F

CatalogNumber	Status Indication	RemoteContact Switching Capacity	Remote Contacts	Lead Length	Lead Size imperial	Temperature
SES320BC240D	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC240V	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC480D	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC480Y	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F
SES320BC600Y	1 green LED per line, Dual color status LED, flashing red for faults, Audible alarm, Surge counter	2.0 A @ 240 V	Yes	36"	#10	-40 to 185 °F

Table 4/5

Catalog Number	Enclosure Material	Enclosure Rating	Mounting	Unit Weight	Certification Details	Complies With
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SES320BC1202 40D	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC1202 40S	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC120V	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC208Y	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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

SES320BC240D	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC240V	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC480D	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
SES320BC480Y	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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

SES320BC600Y	Polycarbonate	NEMA®-4X, UL® 50E Type 4	3/4" straight nipple	1.38 lb	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 1/2, 20 kA Mode	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
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Table 5/5

Catalog Number	Depth	Height	Width	Certifications
SES320BC120240D	2.99"	6.89"	8.38"	cUL, UL
SES320BC120240S	2.99"	6.89"	8.38"	UL, cUL
SES320BC120V	2.99"	6.89"	8.38"	cUL, UL
SES320BC208Y	2.99"	6.89"	8.38"	UL, cUL
SES320BC240D	2.99"	6.89"	8.38"	cUL, UL
SES320BC240V	2.99"	6.89"	8.38"	UL, cUL
SES320BC480D	2.99"	6.89"	8.38"	cUL, UL
SES320BC480Y	2.99"	6.89"	8.38"	UL, cUL
SES320BC600Y	2.99"	6.89"	8.38"	

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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