

Service Entrance Suppressor(DF), 480 kA

Data Solutions



The nVent ERICO SES480 DF Series of Surge Protective Devices (SPD) is an enhanced version of our nVent ERICO SES480 DB Series. The robust SES480 DF Surge-Filter features a 480 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 DF Series is a cUL 1449 Listed SPD for Type 2 locations. Typical applications for the nVent ERICO SES480 DF Series service entrances, distribution, branch panels, MCC, lighting panels, HVAC, A/V systems, IT equipment and more.

CERTIFICATIONS



FEATURES

Front-facing design eases installation and performance monitoring

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

Up to 64 dB attenuation (10 kHz to 100 MHz)

Advanced monitoring includes Surge and TOV Counters with time and date stamping

Rotatable, full color graphics-based LCD utilizing a PIC Micro Controller

Repetitive impulse tested to 10,000 strikes per mode

Rotary Disconnect included, standard for safe servicing

10-year limited warranty

SPECIFICATIONS

Table 1/5

Catalog Number	Nominal System Voltage (Un)	Max Continuous Operating Voltage (Uc)	Distribution System	Filtering	Frequency	Short Circuit Current Rating (SCCR)
SES480DF2404 80S	240/480 V	320/550 V	1Ph 3W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF208Y	120/208 V	150/300 V	3Ph Y 4W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF2404 80D	240/480 V	350/550 V	3PhΔ 4W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF480D	480 V	550 V	3PhΔ 3W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF480Y	277/480 V	320/700 V	3Ph Y 4W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF600D	600 V	680 V	3PhΔ 3W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	200kA
SES480DF600Y	347/600 V	420/880 V	3Ph Y 4W+G	-64 dB from 10 kHz to 100 MHz	0 – 600Hz	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	Max Discharge Current (Imax), Per Phase
SES480DF2404 80S	1200V	2000V	1200V	1200V	20kA 8/20 μs	480kA 8/20 μs
SES480DF208Y	800V	1000V	800V	800V	20kA 8/20 μs	480kA 8/20 μs
SES480DF2404 80D	1800V, 1800V	2000V, 2500V	1200V, 1800V	1200V	20kA 8/20 μs	480kA 8/20 μs
SES480DF480D	1800V	1800V			20kA 8/20 μs	480kA 8/20 μs
SES480DF480Y	1200V	2000V	1200V	1200V	20kA 8/20 μs	480kA 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	Max Discharge Current (Imax), Per Phase
SES480DF600D	2000V	2000V			20kA 8/20 μ s	480kA 8/20 μ s
SES480DF600Y	1500V	2500V	1500V	1500V	20kA 8/20 μ s	480kA 8/20 μ s

Table 3/5

Catalog Number	Status Indication	Remote Contact Switching Capacity	Remote Contacts	Lead Size imperial	Temperature	Enclosure Material
SES480DF240480S	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal
SES480DF208Y	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal

CatalogNumber	Status Indication	RemoteContact Switching Capacity	Remote Contacts	Lead Size imperial	Temperature	Enclosure Material
SES480DF240480D	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal
SES480DF480D	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal
SES480DF480Y	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal
SES480DF600D	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal

CatalogNumber	Status Indication	RemoteContact Switching Capacity	Remote Contacts	Lead Size imperial	Temperature	Enclosure Material
SES480DF600Y	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167°F	Metal

Table 4/5

Catalog Number	Enclosure Rating	Mounting	Certification Details	Complies With	Depth	Height
SES480DF2404 80S	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in
SES480DF208Y	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in

CatalogNumber	Enclosure Rating	Mounting	Certification Details	Complies With	Depth	Height
SES480DF2404 80D	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in
SES480DF480D	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in
SES480DF480Y	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in

CatalogNumber	Enclosure Rating	Mounting	Certification Details	Complies With	Depth	Height
SES480DF600D	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in
SES480DF600Y	NEMA®-4, UL® 50E Type 4	Flange Mount	CSA C22.2 No. 269.1, UL® 1449 Edition 5 Type 2, 20 kA Mode, UL® 1283 Edition 7	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, UL® 96A and NEC® Article 285	13.19in	16.79in

Table 5/5

Catalog Number	Width	Unit Weight	Impulse Life
SES480DF240480S	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs
SES480DF208Y	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs
SES480DF240480D	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs
SES480DF480D	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs
SES480DF480Y	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs
SES480DF600D	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 µs

Catalog Number	Width	Unit Weight	Impulse Life
SES480DF600Y	7.23in	18.2lb	10,000 Impulses at 10 kA 8/20 μ s

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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