

Service Entrance Suppressor(DB), 360 kA



The nVent ERICO SES360 DB Series of Surge Protective Devices (SPD) provides economical protection against damaging transients and surge currents. The DB 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 360 kA per phase surge rating, the SES360 DB is well suited for category C locations. Typical applications for the nVent ERICO SES360 DB Series include service entrances, distribution, branch panels, MCC, lighting panels, HVAC and more. Featuring a NEMA 4 enclosure rating, the DB series is also appropriate for use in outdoor applications.

CERTIFICATIONS



FEATURES

Front-facing design simplifies installation and performance monitoring

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

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	Frequency	Short Circuit Current Rating (SCCR)	Voltage Protection Rating (VPR), L-G
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SES360DB1202 40S	120/240 V	175/350 V	1Ph 3W+G	0 - 600 Hz	200kA	800V
SES360DB2404 80S	240/480 V	320/550 V	1Ph 3W+G	0 - 600 Hz	200kA	1200V
SES360DB1202 40D	120/240 V	175/275 V	3PhΔ 4W+G	0 - 600 Hz	200kA	1000V, 1000V
SES360DB208Y	120/208 V	150/300 V	3Ph Y 4W+G	0 - 600 Hz	200kA	800V
SES360DB2404 80D	240/480 V	350/550 V	3PhΔ 4W+G	0 - 600 Hz	200kA	1800V, 1800V
SES360DB480D	480 V	550 V	3PhΔ 3W+G	0 - 600 Hz	200kA	1800V
SES360DB480Y	277/480 V	320/700 V	3Ph Y 4W+G	0 - 600 Hz	200kA	1200V
SES360DB600Y	347/600 V	420/880 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	Status Indication
SES360DB1202 40S	1800V	800V	800V	20kA 8/20 μs	360kA 8/20 μs	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp

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	Status Indication
SES360DB240480S	2500V	1200V	1200V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp
SES360DB120240D	1200V, 1500V	800V, 1000V	800V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp
SES360DB208Y	1000V	800V	800V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp

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	Status Indication
SES360DB240480D	2000V, 2500V	1200V, 1800V	1200V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp
SES360DB480D	1800V			20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp
SES360DB480Y	2000V	1200V	1200V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp

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	Status Indication
SES360DB600Y	2500V	1500V	1500V	20kA 8/20 μ s	360kA 8/20 μ s	2 Tri Color LEDs per phase, Audible alarm with silence switch, Graphics-based LCD with Resettable Surge and TOV Counter with Time / Date Stamp

Table 3/5

Catalog Number	Remote Contact Switching Capacity	Remote Contacts	Lead Size imperial	Temperature	Mounting	Enclosure Material
SES360DB120240S	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB240480S	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB120240D	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB208Y	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB240480D	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB480D	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB480Y	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal
SES360DB600Y	5.0 A @ 240 V	Yes	#10 - #4	-31 to 167 °F	Flange Mount	Metal

Table 4/5

Catalog Number	Enclosure Rating	Depth	Height	Width	Certification Details	Complies With
SES360DB1202 40S	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285
SES360DB2404 80S	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285
SES360DB1202 40D	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285

CatalogNumber	Enclosure Rating	Depth	Height	Width	Certification Details	Complies With
SES360DB208Y	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285
SES360DB240480D	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285
SES360DB480D	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285

CatalogNumber	Enclosure Rating	Depth	Height	Width	Certification Details	Complies With
SES360DB480Y	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285
SES360DB600Y	NEMA®-4, UL® 50E Type 4	13.19"	16.79"	7.23"	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, UL® 96A and NEC® Article 285

Table 5/5

Catalog Number	Unit Weight	Impulse Life
SES360DB120240S	18.2 lb	10,000 Impulses at 10 kA 8/20 µs
SES360DB240480S	18.2 lb	10,000 Impulses at 10 kA 8/20 µs
SES360DB120240D	18.2 lb	10,000 Impulses at 10 kA 8/20 µs
SES360DB208Y	18.2 lb	10,000 Impulses at 10 kA 8/20 µs
SES360DB240480D	18.2 lb	10,000 Impulses at 10 kA 8/20 µs
SES360DB480D	18.2 lb	10,000 Impulses at 10 kA 8/20 µs

Catalog Number	Unit Weight	Impulse Life
SES360DB480Y	18.2 lb	10,000 Impulses at 10 kA 8/20 μ s
SES360DB600Y	18.2 lb	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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