

Service Entrance Suppressor(P), 40 kA



The nVent ERICO SES40P Series of Surge Protective Devices (SPD) provide economical protection against damaging transients and surge events. These Type 1 devices are UL® Listed to UL 1449 Edition 4 and CSA 22.2 No. 269.1-17. This allows installations on the line or load side (Type 1 or Type 2) of the service panel in accordance with NEC® or CSA 22.2 No. 269.1-17 without the requirement for additional circuit breakers or fuses.

Primary applications are service entrance, branch, commercial, industrial, and residential. Other applications include OEM panels, solar combiner boxes, UL 96A lightning protection installations and light pole applications. The housing is constructed of UV-stabilized thermoplastic and meets the UL 50 Type 4x rating, making it ideal for both indoor and outdoor applications. All of the models have a 20kA nominal discharge current rating, the highest level recognized under the UL 1449 Edition 4 standard.

FEATURES

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

Front-facing design eases installation and performance monitoring

40 kA 8/20 μ s maximum surge rating per mode

UL® 50 Type 4X

Optional Flush Mounting Plate



SPECIFICATIONS

Table 1/2

Catalog Number	SES40P2401P	SES40P1201P	SES40P4801P	SES40P120240 SP	SES40P4803P	SES40P2083P
Nominal System Voltage (Un)	240 VAC	120 VAC	480 VAC	120/240 VAC	277/480 VAC	120/208 VAC

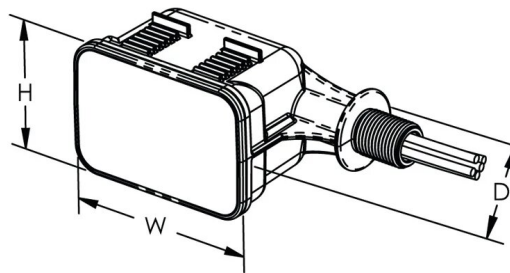
CatalogNumber	SES40P2401P	SES40P1201P	SES40P4801P	SES40P120240 SP	SES40P4803P	SES40P2083P
Distribution System	1Ph 2W+G	1Ph 2W+G	1Ph 2W+G	1Ph 2W+G	3Ph 4W+G 3PhΔ 3W+G	3Ph 4W+G 3PhΔ 3W+G
Max Continuous Operating Voltage (Uc)	300 VAC	150 VAC	590 VAC	150/300 VAC	340/590 VAC	150/300 VAC
Frequency	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz
Short Circuit Current Rating (SCCR)	200kA	200kA	200kA	200kA	200kA	200kA
Nominal Discharge Current (In), Per Mode	20kA 8/20 μs	20kA 8/20 μs	10kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs	20kA 8/20 μs
Max Discharge Current (Imax), Per Mode	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs	40kA 8/20 μs
Voltage Protection Rating (VPR), L-L			4000V	1800V	2500V	1800V
Voltage Protection Rating (VPR), L-N	2500V	1800V		900V	1500V	800V
Voltage Protection Rating (VPR), L-PE	1500V	900V	2000V		2500V	1800V
Voltage Protection Rating (VPR), N-PE	1200V	900V			1500V	800V
Status Indication	Blue LED	Blue LED	Blue LED	Blue LED	Blue LED	Blue LED
Technology	MOV with thermal disconnect	MOV with thermal disconnect	MOV with thermal disconnect	MOV with thermal disconnect	MOV with thermal disconnect	MOV with thermal disconnect
Lead Length	36"	36"	36"	36"	36"	36"
Lead Size imperial	#12	#12	#12	#12	#12	#12
Temperature	-40 to 176 °F	-40 to 176 °F	-40 to 176 °F	-40 to 176 °F	-40 to 176 °F	-40 to 176 °F

Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
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Table 2/2

Catalog Number	SES40P2401P	SES40P1201P	SES40P4801P	SES40P120240 SP	SES40P4803P	SES40P2083P
Enclosure Rating	NEMA®-4X IP 65	NEMA®-4X IP 65	NEMA®-4X IP 65	NEMA®-4X IP 65	NEMA®-4X IP 65	NEMA®-4X IP 65
Mounting	1/2" straight nipple	1/2" straight nipple	1/2" straight nipple	1/2" straight nipple	1/2" straight nipple	1/2" straight nipple
Unit Weight	0.55 lb	0.55 lb	0.55 lb	0.55 lb	0.85 lb	0.85 lb
Certification Details	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17	UL® 1449 Edition 5 Type 1/2, 20 kA Mode CSA C22.2 No. 269.1-17
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C
Depth (D)	3"	3"	3"	3"	3"	3"
Height (H)	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"
Width (W)	4 3/4"	4 3/4"	4 3/4"	4 3/4"	4 3/4"	4 3/4"

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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