

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	SES40P4801P	SES40P1201P	SES40P2083P	SES40P4803P
Nominal System Voltage (Un)	240 VAC	480 VAC	120 VAC	120/208 VAC	277/480 VAC
Distribution System	1Ph 2W+G	1Ph 2W+G	1Ph 2W+G	3Ph 4W+G 3PhΔ 3W+G	3Ph 4W+G 3PhΔ 3W+G

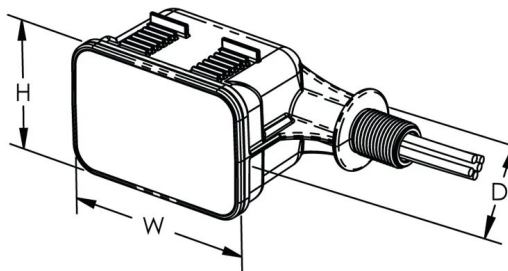
Catalog Number	SES40P2401P	SES40P4801P	SES40P1201P	SES40P2083P	SES40P4803P
Max Continuous Operating Voltage (Uc)	300 VAC	590 VAC	150 VAC	150/300 VAC	340/590 VAC
Frequency	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz	0 - 100 Hz
Short Circuit Current Rating (SCCR)	200kA	200kA	200kA	200kA	200kA
Nominal Discharge Current (In), Per Mode	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
Voltage Protection Rating (VPR), L-L		4000V		1800V	2500V
Voltage Protection Rating (VPR), L-N	2500V		1800V	800V	1500V
Voltage Protection Rating (VPR), L-PE	1500V	2000V	900V	1800V	2500V
Voltage Protection Rating (VPR), N-PE	1200V		900V	800V	1500V
Status Indication	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
Lead Length	914mm	914mm	914mm	914mm	914mm
Lead Size	3.31 mm ²	3.31 mm ²	3.31 mm ²	3.31 mm ²	3.31 mm ²
Temperature	-40 to 80 °C	-40 to 80 °C	-40 to 80 °C	-40 to 80 °C	-40 to 80 °C
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic

Table 2/2

Catalog Number	SES40P2401P	SES40P4801P	SES40P1201P	SES40P2083P	SES40P4803P
Enclosure Rating	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
Unit Weight	0.25 kg	0.25 kg	0.25 kg	0.39 kg	0.39 kg
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

Catalog Number	SES40P2401P	SES40P4801P	SES40P1201P	SES40P2083P	SES40P4803P
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
Depth (D)	76.2mm	76.2mm	76.2mm	76.2mm	76.2mm
Height (H)	69.85 mm	69.85 mm	69.85 mm	69.85 mm	69.85 mm
Width (W)	120.65 mm	120.65 mm	120.65 mm	120.65 mm	120.65 mm

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.

North America

+1.800.753.9221
Option 1 – Customer Care
Option 2 – Technical
Support

Europe

Netherlands:
+31 800-0200135
France:
+33 800 901 793

Europe

Germany:
800 1890272
Other Countries:
+31 13 5835404

APAC

Shanghai:
+ 86 21 2412 1618/19
Sydney:
+61 2 9751 8500



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE