

Features

- Compact NEMA®-4X enclosure design can be directly mounted to panel or installed in a small space
- LED status monitoring
- 40 kA 8/20 μs maximum surge rating per mode
- CE, UL® 1449 Edition 3 Listed
- Optional bracket to accommodate various mounting applications and conditions



The SES40 Series of Surge Protection Devices provide economical protection against damaging transients and surge events. These products are UL and cUL® listed to 1449 Edition 3 as Type 1 devices. This allows them to be installed on the line or load side of the service panel in accordance with the NEC® 2011 without the requirement for additional circuit breakers or fuses. The DC models are listed under UL 1449 Edition 3 for Photovoltaic Systems.

Primary applications are service entrance, branch and OEM panels, solar combiner boxes, UL 96A lightning protection installations and light pole applications. The housing is constructed of UV-stabilized thermoplastic and designed to meet the UL 50 Type 4 rating, making it ideal for both indoor and outdoor NEMA 4X applications. All of the AC models have a 20kA nominal discharge current rating, the highest level recognized under the UL 1449 Edition 3 standard. Listed as a Type 1 SPD to UL 1449 3rd Edition, the SES40 Series can be installed in a Type 1 or 2 location in accordance with the NEC 2011.

Model	SES40120/240SP	SES401201P	SES402083P	SES402401P	SES404803P	SES40300DC	SES40600DC
Nominal System Voltage, U_n	120/240 V	120 V	120/208 V	240 V	277/480 V	300 VDC	600 VDC
Distribution System	1Ph 2W+G	1Ph 2W+G	3Ph 4W+G, 3Ph Δ 3W+G	1Ph 2W+G	3Ph 4W+G, 3Ph Δ 3W+G	DC 2W + G	DC 2W + G
Max Cont. Operating Voltage, U_c	150/300 VAC	150 VAC	150/300 VAC	300 VAC	340/590 VAC	360 VAC	720 VAC
Frequency	0-60 Hz						
Max Discharge Current, I_(max)	40 kA 8/20 μs per mode					40 kA 8/20 μs	30 kA 8/20 μs
Nominal Discharge Current, I_n	20 kA 8/20 μs						10 kA 8/20 μs
Protection Modes	L-N	L-N, N-G		+ve to G, -ve to G			
Limiting Voltage Measured (Vp)	L-N 800 V @ 3 kA	L-N 800 V @ 3 kA	L-N 800 V @ 3 kA	L-N 1,200 V @ 3 kA	L-N 1,200 V @ 3 kA	-/G, +/G 1,200 V @ 3 kA	-/G, +/G 2,000 V @ 3 kA
Short Circuit Current Rating, I_{sc}	200 kA					100 kA	
Status	LED indicator						
Dimensions H x D x W : mm (in)	62 x 87 x 99 (2.44 x 3.43 x 3.90)						
Weight kg (lbs)	0.18 (0.40)	0.18 (0.40)	0.32 (0.70)	0.18 (0.40)	0.32 (0.70)	0.18 (0.40)	0.18 (0.40)
Enclosure	NEMA 4X, UV stabilized thermoplastic						
Connection	900 mm of 3.31 mm ² (36" of #12 AWG) flying leads						
Mounting	3/4" straight nipple with conduit nut for mounting through standard 1.14" diameter knockout						
Temperature	-40°C to 80°C (-40°F to 176°F)						
Approvals	CE, UL® 1449 Ed. 3 Listed Type 1/2					CE, UL® 1449 Ed. 3 for photovoltaic systems	
Surge Rated to Meet	UL 1449 Ed. 3 in 20 kA mode						UL 1449 Ed. 3 in 10 kA mode
Available Options	Mounting bracket (SES40BRK)						

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WARNING

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