



SES40

SES40120/240

Service Entrance Suppression



Application Information

- Lightning transients and surges are a major cause of expensive electronic equipment failure and business disruption. Damage to computers, data and communications may occur, as well as a loss of revenue and profits. The SES40 Service Entrance Suppression, a CRITEC® product, part of the ERITECH® line of facility electrical protection products from ERICO®, is designed to protect sensitive electronics at the service entrance for residential or light commercial service panels. This economical unit is designed for 120/240 VAC power systems and provides surge protection totaling 80 kA 8/20 μ s total, or 40 kA per phase. The SES40 is UL® Listed as a Type 1 device. It offers a simple and hassle-free installation for protection on the line side or load side of the service panel, without additional external protection being required by circuit breakers or fuses.

Features

- Compact NEMA-4 enclosure design can be flush mounted or installed in a small space
- LED status indication flag for status monitoring
- 120/240 VAC operating voltage suits the most common power distribution system for residential or small commercial buildings
- 40 kA 8/20 μ s maximum surge rating per phase
- CE, UL® 1449 Edition 3 Listed

Product Specifications

Approvals	CE UL® 1449 Ed. 3 Listed Type 1/2
Available Options	Side Mount Kit (Order TDXSM) Flush Mount Kit (Order SES40FP)
Connection	Neutral/Ground: 900 mm of 5.26 mm ² (36" of # 10 AWG) flying leads Line: 762 mm of 5.26 mm ² (30" of # 10 AWG) flying leads
Depth	73.00 mm
Distribution System	1Ph 3W+G
Enclosure	Aluminum, IP 65 (NEMA-4)
Frequency	50/60 Hz
Height	83.00 mm
Humidity	0 % RH [Min] 90 % RH [Max]

Max Continuous Operating Voltage Uc - AC	170/340 V
Max Discharge Current	40 kA 8/20 μ s
Mounting	3/4" straight nipple
Nominal Discharge Current	20 kA 8/20 μ s
Nominal System Voltage	120/240 V
Product Series	SES40
Protection Modes	L-N
Short Circuit Current Rating, Isc	200 kAIC (Isc)
Status	LED indicator
Surge Rated to Meet	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2-2002 Scenario II, Exposure 1, 20 kA 8/20 μ s, 2 kA 10/350 μ s EC 61643-1 Class II UL® 1449 Ed. 3 In 20 kA mode
Technology	MOV with thermal disconnect
Temperature	-40°C [Min] 80°C [Max]
Voltage Protection Level (8/20μs)	L-N 800 V @ 3 kA 1.2 kV @ 20 kA
Weight	0.70 kg
Width	83.00 mm

Application Photos



WARNING

ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

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