








# nVent ERICO Surge Protection Solutions



CONNECT AND PROTECT

Reliable protection of structures, industrial and commercial operations and personnel, demands a systematic and comprehensive approach to minimize the threats caused by transient over-voltages. Grounding, bonding, lightning protection and surge protection all need to be considered for comprehensive facility electrical protection. nVent ERICO services and solutions assist facility owners, design engineers and installation contractors with the necessary support to implement a complete facility electrical protection system customized for their application.

## NVENT ERICO PANEL MOUNT SURGE PROTECTIVE DEVICES

Series	SES40	SES40P	SES160B	SES160F	SES320	DTX120 / DTX240	SES360 / SES480
							
Nominal Voltage Options	120 V/240 V 1-Ph	120 V, 240 V, 120 V/240 V 1-Ph, 208 V Wye, 240 V Delta, 480 V Wye/Delta, 480 V 1-Ph, 300 Vdc	120 V, 240 V, 120 V/240 V 1-Ph, 208 V Wye, 240 V Delta, 240V High Leg Delta, 480 V Wye, 480 V Delta, 600V Wye	120 V, 240 V, 120 V/240 V 1-Ph, 208 V Wye, 240 V Delta, 240V High Leg Delta, 480 V Wye, 480 V Delta, 600V Wye	120 V, 240 V, 120 V/240 V 1-Ph, 120 V/240 V High Leg Delta, 208 V Wye, 240 V Delta, 480 V Wye, 480 V Delta, 600V Wye	120 V/240 V 1-Ph, 120 V/240 V High Leg Delta, 208 V Wye, 240 V Delta, 480 V Wye, 480 V Delta	120 V/ 240 V 1-Ph, 120 V/ 240 V High Leg Delta, 208 V Wye, 240/480 V 1-Ph, 240/480 V High Leg Delta, 480 V Wye, 480 V Delta, 600 V Wye, 600 V Delta
Max. Surge Rating	80 kA/Phase	40 kA/Mode *80 kA/Phase Some Models	160 kA/Phase	160 kA/Phase	320 kA/Phase	120 kA/Phase 240 kA/Phase	360 kA/Phase 480 kA/Phase
LED Indication per Phase	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overall Status LED	No	No	No	Yes; Dual Color, Flashing Red	Yes; Dual Color, Flashing Red	Yes; Dual Color, Flashing Red	Yes; Tri Color, Flashing Red
Audible Alarm	No	No	Yes	Yes	Yes	Yes, with silence switch	Yes, with silence switch
Surge Counter	No	No	No	No	Yes (C Option)	Yes	Yes
UL 1449 / (UL VZCA)	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Filter / UL 1283	No/No	No/No	No/No	Yes/Yes	Yes/Yes F Version	Yes/Yes F Version	Yes/Yes F Version
Relay Contacts	No	No	Yes 2 A/240 V Form C	Yes 2 A/240 V Form C	Yes 2 A/240 V Form C	Yes 2 A/240 V Form C	Yes 5 A/240 V Form C
Enclosure Rating	NEMA 4	NEMA 4X UL 50E Type 4X	NEMA 4X UL 50E Type 4	NEMA 4X UL 50E Type 4	NEMA 4X UL 50E Type 4	NEMA 4X UL 50E Type 4	NEMA 4
Flush Option	Yes, SES40FP	Yes, SES40PFP	Yes, SES160BFP	Yes, SES160FFP	Yes, SES320FP	Yes, DTX120FP DTX240FP	No

UL Rated Disconnect SES 360/480 = Yes All others = No

## RECOMMENDED SURGE RATINGS (8/20 $\mu$ s)

	CAT C	CAT B	CAT A
ANSI/IEEE C62.41			
IEC 61643 Test Class	I, II	II	III
VDE Classification	B	C	D
	POINT-OF-ENTRY INNER CITY SITES	SUB CIRCUITS OR NEAR TO POINT-OF-ENTRY	DISTRIBUTED CIRCUITS, POWER OUTLETS, CIRCUITS REMOTE FROM POINT-OF-ENTRY
EXPOSURE			
<b>HIGH</b> Ng >2	40 kA	20 kA	10 kA
<b>MED.</b> Ng 0.5-2	20 kA	20 kA	5 kA
<b>LOW</b> Ng <0.5	15 kA	5 kA	3 kA

Ng = strikes/km<sup>2</sup>/year.

CAT C	CAT B	CAT A
I, II	II	III
B	C	D
SES360/480		
SES320		
DTX240		
SES160		
DTX120		
SES40/SES40P		



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