

# TvssPro™

TYPE : E series

Class I+II (B+C) One Phase AC Protector

Enclosure Type SPD

Surge arrester for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 0B-1 and higher.



- UL 1449 3rd with SCCR 200KArms Listed thermally protected high energy MOV technology
- Class I+II arrester in according with IEC 61643 and UL1449 third Edition
- Comply with ANSI / IEEE C62.41-1991&62.45
- Full modes protection
- Large surge energy capability.
- Low voltage protection level.
- Steel enclosure, not exhaust when exposed to lightning strikes.
- Degradation failure indication.
- Surge event counter optional
- Failure pre-test optional
- Filtering function optional
- Thermal fused with thermally protected MOVs inside
- Less than 1 nanosecond response time
- Maximum energy capability.
- Low voltage protection level.
- With remote alarm contact
- With EMI/RFI filter and sine wave tracking

## Technical Data

System voltage (50/60Hz)	110V-120V		127/254V	220-240V		277V		
Phase Configuration	Single-phase		Split-phase	Single-phase		Single-phase		
Model No.	E40/M-S/3M-180	E40/M-S/2M-180	E40/M-S/5M-180	E40/M-S/3M-320	E40/M-S/2M-320	E40/M-S/3M-350	E40/M-S/2M-350	
Mode protected	L-N, L-G, N-G	L-N, N-G	L-N, L-G, L-L, N-G	L-N, L-G, N-G	L-N, N-G	L-N, L-G, N-G	L-N, N-G	
Max. Discharge Current I <sub>max</sub> (8/20) Per phase	80KA	80KA	80KA	80KA	80KA	80KA	80KA	
Nominal Discharge Current I <sub>n</sub> (8/20)	20KA	20KA	20KA	20KA	20KA	20KA	20KA	
Voltage protection level (VPR@6KV/3KA)	L- N	800V	800V	800V	1300V	1300V	1400V	1400V
	L- G	800V	N/A	800V	1350V	N/A	1400V	N/A
	N- G	800V	800V	800V	1300V	1300V	1400V	1400V
	L - L	N/A	N/A	1400V	N/A	N/A	N/A	N/A
Lightning counter current	≥200A(with reset button)							
Filtering	L-N, L-G							
Power Status Indication	Power LED : Normal = Green; Fail = off							
Working Status Indication	Normal= Blue LED on ; Fail: Blue LED off and Red LED on							
Power Connecting cable	10AWG(L1=yellow;L2=brown;PE=black;N=blue)							
Signal cable	16AWG C=red; NC=blue; NO=brown							
Enclosure material	Standard ABS, optional PC, GRP, Steel,							
Enclosure protection class	NEMA4, IP65, IP67 optional							
Working environments	Temperature -40℃~+70℃, Humidity relative 5~95% (25℃) , Altitude≤2km							
Response time	<1 nanosecond							
Dimension	200 mm x 150 mm x 100 mm / plastic ABS							

Note: Subject to change without any notice.