



Technical Features

Type 1CA thermally protected MOV designed to open in the event of overheating due to an abnormal over-voltage or temporary over voltage (TOV) and will interrupt any abnormal current that may be encountered.

- UL1449-4th approved UL for Type1CA. UL file No.:E319871
- Meeting IEC61643-11 standard
- Quick thermal response and perfect circuit cutoff function due to special thermal disconnecter design with arc extinguishing device (Patent No.US20110170217A1).
- Wide operating temperature range and high reliability.
- High surge current capability and low leakage current.
- floating remote signaling contact (50mA 12Vdc) for fault indication
- Type 1CA SPD, application in the AC mains, service entrance, and heavy industrial etc.
- Short circuit current rating (SCCR) 200kArms

Part No.	SMTMOV150	SMTMOV180	SMTMOV275	SMTMOV320	SMTMOV420	SMTMOV550	SMTMOV690
In accordance with	ANSI/UL1449-4th; IEC61643-11:2011						
Category	UL for Type 1CA						
Varistor Voltage@1mA V1mA (V)	228~270	250~310	409~475	485~563	646~748	820~1000	1000~1250
Max. continuous operating voltage (AC/DC) MCOV	150 /200	180 /230	275 /350	320 /410	420 /560	550 /745	690 /910
Nominal discharge current(8/20) In x 15 times	20kA						
Max. discharge current(8/20) I _{max} x 1 time	50kA						40kA
Voltage protection level (VPR)	<0.6kV	<0.6kV	<0.8kV	<1.0kV	<1.5kV	<1.5kV	<2.0kV
Response time	≤25 ns						
Operating temperature range	- 40°C ~ + 85°C						
Enclosure material	thermoplastic; extinguishing degree UL94 V-0						
Insulation Resistance	≥10 MOhm						
Electric Strength	≥2500V (AC)						
Disconnecter instructions	viewed through top hole of plastic housing						
Remote alarm contact	floating contact (50mA 12Vdc) for fault indication						
SCCR	200kA						
Approvals, Certifications	UL, CE						

Dimension drawing

