

TPMOV[®] (Thermally Protected MOV)

Thermally Protected Metal Oxide Varistor

SURGE PROTECTION

SELF-PROTECTED MOV UTILIZING THE FASTEST & SAFEST DISCONNECT SYSTEM AVAILABLE FOR DESIGNERS OF SPDs & ELECTRICAL EQUIPMENT



Mersen's TPMOV technology eliminates common failure modes that occur in the field with standard metal oxide varistors. Internally it is comprised of a voltage clamping device and a disconnecting apparatus that monitors the status of the metal oxide disk, making the TPMOV surge suppression component a fail-safe device. In the event of an overvoltage breakdown, the metal oxide disc is securely disconnected from the system power by an arc shield. Upon failure, the TPMOV surge suppression component is also equipped with a visual pin indicator as well as a normally open micro-switch, providing remote indication if applicable.

TPMOV7 Series Surge Suppression Component: 50% more surge capacity, Same footprint

The TPMOV7 Series is rated for **75kA - 8/20μs peak surge current** and is available for maximum continuous operating voltages (MCOV) from 150V to 320VAC.

Technical Data Overview	
Volts [U _n]	150-550VAC
Nominal Discharge Current Rating [I _n]	20kA
Surge Capacity	75kA
Short-Circuit Current Rating [SCCR]	200kA
Response Time	Less than 1 nanosecond (one per phase)
Ambient Temperature Rating	-40°C to +85°C

FEATURES/BENEFITS

- Industry-leading TPMOV technology available in 50kA and 75kA surge capacities
- Consistent footprint with 25-40mm MOVs
- Built-in visual/remote indication optional
- Wave solderable
- No additional overcurrent protective device (fuses) required

APPLICATIONS

- For OEM design and build

APPROVALS/STANDARDS

- ANSI/UL 1449 5th Edition, Type 1 Component Assembly SPD, File E210793
- RoHS Compliant



