



Insurance Against Surge

Surge-Trap Type 1 Protection in NEMA 4X enclosure

Protect facilities and equipment with the high-performance, low-cost Mersen STT4X

MOVs are the most common and efficient method to protect equipment against damaging voltage spikes. However, while MOVs are efficient, they can also degrade over time and possibly fail catastrophically when they reach the end of life. In response, UL wrote standards to prevent fire risk while using MOVs. When the latest edition of UL 1449 (Third Edition) was published, the SPD industry struggled to find solutions to meet these new standards.

This is when Mersen's TPMOV became essential. This Mersen invention was the first fail-safe Thermally Protected MOV able to pass all UL 1449 Third Edition tests as well as even more stringent tests applied by our customers. A few years later, Mersen TPMOVs are often imitated, but there is still no match to Mersen's technology.

To offer you peace of mind to protect your equipment, Mersen offers the STT4X using TPMOV technology. No extra fuses or circuit breakers are required — just a few wires to connect and you are protected within minutes.*

Applications that benefit from the new STT4X

Outdoor and indoor applications such as control cabinets (CC), programmable logic controllers (PLC), electronic motor controllers, variable frequency drives, soft start motor controllers, equipment monitoring, panel meters, lighting circuits, security systems, medical equipment, industrial controls, overall building protection or system protection and residential applications.

Surge-Trap Type 1 SPD NEMA 4X	Nominal Voltage (VAC)	System Type	Freq (Hz)	MCOV (L-N)	I _{max}	SCCR	Nominal Discharge Current (I _n , kA)
STT4X1201PG	120	1	50/60	180	50 kA	200 kA	20
STT4X240SPG	120/240	1S	50/60	180	50 kA	200 kA	20
STT4X2401PG	240	1	50/60	270	50 kA	200 kA	20
STT4X2083PYG	120/208	3Y	50/60	180	50 kA	200 kA	20
STT4X4803PYG	277/480	3Y	50/60	320	50 kA	200 kA	10
STT4X6003PYG	347/600	3Y	50/60	420	50 kA	200 kA	10
STT4X2403PDG	240	3D	50/60	270 (L-G)	50 kA	200 kA	20
STT4X4803PDG	480	3D	50/60	550 (L-G)	50 kA	200 kA	10

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Surge-Trap Type 1 SPD STT4X features include:



- Quick install, no overcurrent protection device (fuses) required
- 2-year product warranty
- NEMA 4X enclosure for outdoor and indoor applications
- 200kA short circuit current rating
- 20kA nominal discharge current**
- UL 1449 3rd Edition Type 1 Listed
- Economical replacement for the former Surge Arrestor category



MOV: Metal Oxide Varistor
 SPD: Surge Protection Device

*While very easy to install, this operation should be performed by a licensed electrician.

**10 kA on select models.

