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STP Series Pluggable

Surge-Trap®

SURGE PROTECTIVE DEVICE

DIN-RAIL PLUGGABLE SPD FOR ANSI/UL 1449 TYPE 1 AND 2 APPLICATIONS



Surge-Trap® Pluggable Surge Protective Device (SPD) is a no-fuse, fail-safe surge suppressor featuring Mersen's patented TPMOV® technology inside. UL 1449 4th Edition approved, it is DIN-rail mountable featuring a fail-safe self-protected design, visual indicator, and a small footprint. A remote indicator option provides status to critical control circuitry. The Surge-Trap Pluggable SPD has a high short circuit rating and a thermally protected MOV, which eliminates the need for additional overcurrent protection devices.

NEW AND IMPROVED 75KA RATING

Mersen's DIN-Rail Pluggable SPD is one of a kind - the combination of a robust 75kA surge capacity along with no requirement of backup fusing creates an offering unique to the market. Add this to the reliability and safety of Mersen's patented TPMOV technology and you have a truly superior product.

RATINGS:

- Volts (U_n): 120-690VAC
- Nominal Discharge Current Rating (I_): 10-20kA
- Surge Capacity: 75kA
- Short-Circuit Current Rating (SCCR): 200kA

FEATURES/BENEFITS:

- Easy installation or retrofit
- DIN-rail mountable
- Fail-safe, self-protected design
- Remote indicator
- Visual indicator
- IP20 finger-safe design
- Small footprint
- No additional overcurrent protection devices required
- Easy to replace modules
- 2-year warranty

APPROVALS:

- ANSI/UL 1449 4th Edition, Type 1 Component Assembly SPD, File E210793
- ANSI/IEEE C62.41.1, C62.41.2, C62.45
- RoHS Compliant





Mounting: Wire Range: Terminal Torque:		35mm DIN-Rail 4-14AWG Solid / Stranded CU 35.4 lbs-in			Visual End	Operating & Storage Temperature: Visual End of Life Indicator: Remote End of Life Indicator:			- 40°C to + 85°C RED = End of Life NO/NC Dry Contact				
Degree of Protection:		IP 20			Nemote Li	nomote Ena of Ene maleator.			(included with "M" suffix at end of part numbe				
Flammability:		UL94 V0			Frequency	Frequency:			50-60 Hz				
1-POLE, SINGLE-F	PHASE, 2-WIRE												
Catalog Number	Nominal Voltage (VAC)	Maximum Continuous Operating Voltage (MC			MCOV, VAc)	/, VAc) Voltage Protection Ra			ating (VPR, VAC)		plug	I _A	
		L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-1		(k	
STP120P07(M)	120	175	-	-	-	600	-	-	-	SP07U175		20	
STP230P07(M)	240	275	-	-	-	900	-	-	-	SP07U275		20	
STP277P07(M)	277	320	-	-	-	1000	-	-	-	SP07U320		20	
STP347P07(M)	347	420	-	-	-	1500	-	-	-	SP07U420		10	
2-POLE, SPLIT-PH	IASE, 3-WIRE												
Catalog Number	Nominal Voltage (VAC)	Maximum Continuous Operating Voltage (MCOV, VAc)				Voltage Protection Rating (VPR, VAC)				replacement plug		l (kA	
		L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L1, L2		עון	
STP240S07(M)	120/240	175	-	-	350	600	-	-	1200	SP07U175		20	
STP480S07(M)	240/480	275	-	-	550	900	-	-	1800	SP07U275		20	
3-POLE, 3-PHASE	DELTA, 4-WIRE												
Catalog Number	Nominal Voltage (VAC)	Maximum Continuous Operating Voltage (MCOV, VAc)				Voltage Protection Rating (VPR, VAC)				replacement plug		Ļ	
		L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L1, L2, L3		(kA	
STP240D07(M)	240	-	275	-	550	-	900	-	1800	SP07U275		20	
STP480D07(M)	480	-	550	-	1100	-	1500	-	3000	SP07U550		10	
3-POLE, 3-PHASE	WYE, 4-WIRE												
Catalog Number	Nominal Voltage (VAC)	Maximum Continuous Operating Voltage (MCOV, VAc)			Voltage Protection Rating (VPR, VAC)				replacement plug		I _B		
		L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L1, L2, L3		(kA	
					250					SP07U175			
STP208Y07(M)	120/208	175	-	-	350	600	-	-	1200	SP07U175		20	
	120/208 277/480	175 320	-	-	640	1000	-	-	1200 2000	SP07U175 SP07U320		20	
STP208Y07(M) STP480Y07(M) STP600Y07(M)			-	-			_	-					
STP480Y07(M) STP600Y07(M)	277/480	320		-	640	1000	-	-	2000	SP07U320		20	
STP480Y07(M) STP600Y07(M) STP690Y07(M)	277/480 347/600	320 420 550	-	-	640 840	1000 1500	-	-	2000 2500	SP07U320 SP07U420		20 10	
STP480Y07(M) STP600Y07(M) STP690Y07(M) 4-POLE, 3-PHASE	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage	320 420 550 UDING N-G MO	-	-	640 840 1100	1000 1500 1500	-	-	2000 2500 3000	SP07U320 SP07U420	plug	20 10 10	
STP480Y07(M) STP600Y07(M) STP690Y07(M) 4-POLE, 3-PHASE	277/480 347/600 400/690 WYE, 5-WIRE, INCL	320 420 550 UDING N-G MO	- - - DE	-	640 840 1100	1000 1500 1500	-	-	2000 2500 3000	SP07U320 SP07U420 SP07U550	plug N-G	20 10 10	
STP480Y07(M) STP600Y07(M) STP690Y07(M) 4-POLE, 3-PHASE Catalog Number	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage	320 420 550 UDING N-G MO	DE	- - rating Voltage (I	640 840 1100 MCOV, VAc)	1000 1500 1500 Voltage I	- - - Protection F	- - Rating (VPR,	2000 2500 3000 VAC)	SP07U320 SP07U420 SP07U550	` 	10 10 10	
STP480Y07(M) STP600Y07(M) STP690Y07(M)	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC)	320 420 550 UDING N-G MO Maximum C	- - - DE Continuous Oper	rating Voltage (640 840 1100 MCOV, VAc)	1000 1500 1500 Voltage I	- - - - Protection F	- - - Rating (VPR,	2000 2500 3000 VAC)	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3	N-G	20 10	
STP480Y07 (M) STP600Y07 (M) STP690Y07 (M) 4-POLE, 3-PHASE Catalog Number STP208YN07 (M) STP480YN07 (M) STP600YN07 (M)	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600	320 420 550 UDING N-G MO Maximum C L-N 175	Continuous Oper		640 840 1100 MCOV, VAc) L-L 350	1000 1500 1500 Voltage I L-N 600		- - - Rating (VPR, N-G	2000 2500 3000 VAC) L-L 1200	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175	N-G SP07U175	20 10 10 1 (k/	
STP480Y07 (M) STP600Y07 (M) STP690Y07 (M) 4-POLE, 3-PHASE Catalog Number STP208YN07 (M) STP480YN07 (M) STP600YN07 (M)	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600	320 420 550 UDING N-G MO Maximum C L-N 175 320	Continuous Oper		640 840 1100 MCOV, VAc) L-L 350 640	1000 1500 1500 Voltage I L-N 600 1000			2000 2500 3000 VAC) L-L 1200 2000	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175 SP07U320	N-G SP07U175 SP07U175 SP07U275	20 10 10 10 (k/ 20 20	
STP480Y07 (M) STP600Y07 (M) STP690Y07 (M) 4-POLE, 3-PHASE Catalog Number STP208YN07 (M) STP480YN07 (M) STP600YN07 (M) STP690YN07 (M)	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600	320 420 550 UDING N-G MO Maximum C L-N 175 320 420 550			640 840 1100 MCOV, VAc) L-L 350 640 840	1000 1500 1500 Voltage I L-N 600 1000			2000 2500 3000 VAC) L-L 1200 2000 2500	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175 SP07U320 SP07U420	N-G SP07U175 SP07U175 SP07U275	20 10 10 10 (k/ 20 20	
STP480Y07(M) STP600Y07(M) STP690Y07(M) 4-POLE, 3-PHASE Catalog Number STP208YN07(M) STP480YN07(M) STP600YN07(M) STP690YN07(M) 4-POLE, 3-PHASE	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600 400/690 DELTA HIGH-LEG, 5 Nominal Voltage	320 420 550 .UDING N-G MO Maximum C L-N 175 320 420 550 5-WIRE, INCLUE			640 840 1100 MCOV, VAc) L-L 350 640 840 1100	1000 1500 1500 Voltage I L-N 600 1000 1500			2000 2500 3000 VAC) L-L 1200 2000 2500 3000	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175 SP07U320 SP07U420	N-G SP07U175 SP07U175 SP07U275 SP07U275	20 10 10 10 20 20 10	
STP480Y07(M) STP600Y07(M) STP690Y07(M) 4-POLE, 3-PHASE Catalog Number STP208YN07(M) STP480YN07(M) STP600YN07(M) STP690YN07(M) 4-POLE, 3-PHASE	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600 400/690 DELTA HIGH-LEG, 5	320 420 550 .UDING N-G MO Maximum C L-N 175 320 420 550 5-WIRE, INCLUE			640 840 1100 MCOV, VAc) L-L 350 640 840 1100	1000 1500 1500 Voltage I L-N 600 1000 1500			2000 2500 3000 VAC) L-L 1200 2000 2500 3000	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175 SP07U320 SP07U420 SP07U550 replacement L1, L2	N-G SP07U175 SP07U175 SP07U275 SP07U275	20 10 10 10 20 20 10	
STP480Y07 (M) STP600Y07 (M) STP690Y07 (M) 4-POLE, 3-PHASE Catalog Number STP208YN07 (M) STP480YN07 (M) STP600YN07 (M) STP690YN07 (M)	277/480 347/600 400/690 WYE, 5-WIRE, INCL Nominal Voltage (VAC) 120/208 277/480 347/600 400/690 DELTA HIGH-LEG, 5 Nominal Voltage	320 420 550 UDING N-G MO Maximum C L-N 175 320 420 550 S-WIRE, INCLUE	L-G 175 495 695 870 DING N-G MODE		640 840 1100 MCOV, VAc} L-L 350 640 840 1100	1000 1500 1500 Voltage I L-N 600 1000 1500 Voltage I			2000 2500 3000 VAC) L-L 1200 2000 2500 3000 VAC)	SP07U320 SP07U420 SP07U550 replacement L1, L2, L3 SP07U175 SP07U320 SP07U420 SP07U550 replacement	N-G SP07U175 SP07U175 SP07U275 SP07U320 Plug N-G	20 10 10 10 (k/ 20 20 10	

