

Surge-Trap® Pluggable T12 - YPV

Photovoltaic & Energy Storage SPDs

DIN RAIL - IEC TYPE 1+2 PV



General Data

Internal configuration	+,-,PE
No. DIN rail modules	3
Network configuration	YPV
IEC SPD Type	Class I+II
EN SPD Type	PV Type 1+2
UL SPD Type	Type 1 Component Assembly
Format	Pluggable
Protection Modes	L+/PE, L-/PE, L+/L-
Product standards	*EN 61643-31 *UL 1449 5th Ed. *IEC 61643-31



PART NUMBERS

XXXX	1000	1500
STPT12-5KXXXXV-YPV	83120167	83120193
STPT12-5KXXXXV-YPVM (with Microswitch)	83120168	83120194

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

STPT12-5KXXXXV-YPV, STPT12-5KXXXXV-YPVM (with Microswitch)	1000	1500
Maximum continuous operating voltage (DC) - Ucpv [V]	1060	1500
Nominal discharge current (8/20)- In [kA]		20
Max Discharge Current (8/20) - Imax [kA]		40
Lightning impulse current (10/350) - Iimp [kA]		5
Voltage protection level at In - Up (L-L) [kV]	≤4	≤5
Voltage protection level at In - Up (L-PE) [kV]	≤4	≤5
Short Circuit Withstand- Iscpv [kA]		10
Response time - tA [ns]		≤25
Dynamic thermal disconnection		Yes
Thermal protection behaviour	OCM (Open Circuit Mode)	

SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

STPT12-5KXXXXV-YPV, STPT12-5KXXXXV-YPVM (with Microswitch)	1000	1500
Nominal discharge current (8/20) - In [kA]		20
Maximum continuous operating voltage - MCOV (DC DC-) [V]	1000	1500
Maximum continuous operating voltage - MCOV (DC+ G) [V]	1000	1500
Maximum continuous operating voltage - MCOV (DC- G) [V]	1000	1500
Voltage protection rating - VPR (DC- G) [V]	2500	4000
Voltage protection rating - VPR (DC+ DC-) [V]	2500	4000
Voltage protection rating - VPR (DC+ G) [V]	2500	4000
Short-Circuit Current Rating-SCCR [kA]	50	65

DATASHEET

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Surge-Trap[®] Pluggable T12 - YPV

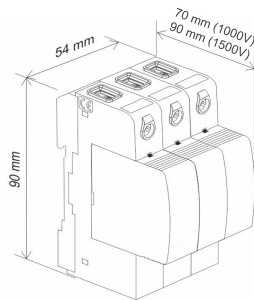
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MECHANICAL AND ENVIRONMENTAL FEATURES

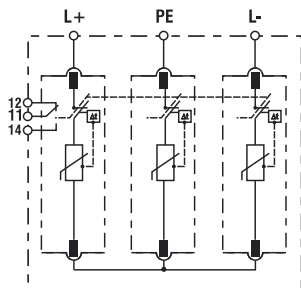
STPT12-5KXXXXV-YPV, STPT12-5KXXXXV-YPVM (with Microswitch)	1000	1500
Temperature range [°C]	-40 ... 85	
Humidity range [%]	5 ... 95	
Indication System Type	Green (OK) / Not green (replace)	
Insulating material	PA66 CT1	
Enclosure - IP	IP20	
Flammability class	UL94 V-0	
Solid conductor cross section	6...35 mm ²	
Stranded conductor cross section	6...25 mm ²	
Torque rating [N m]	3	
Remote indication switching capacity [V/A]	AC: 125/3 DC: 250/1	
Remote Indication Torque [N m]	0.2	

DIMENSIONS AND WEIGHT



STPT12-5KXXXXV-YPV STPT12-5KXXXXV-YPVM (with Microswitch)	1000	1500
Net Weight [kg]	0.362	0.431
Gross weight [kg]	0.404	0.505
Packaging dimensions (H x W x L) [mm]	117 × 63 × 90	120 × 102 × 70

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

STPT12-5KXXXXV-YPV STPT12-5KXXXXV-YPVM (with Microswitch)	1000	1500
SP12-5KXXXXV-PV (Line)	83120011	83120023

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