

Surge-Trap® Pluggable T12 - AC 3P Reinforced

Photovoltaic & Energy Storage SPDs
DIN RAIL - IEC AC Reinforced



General Data

Internal configuration	3+0 R
No. Poles	4-Pole
No. DIN rail modules	4
Network configuration	TNC
IEC SPD Type	Class I+II
EN SPD Type	Type 1+2
Format	Pluggable
Protection Modes	L-PE(N)
Product standards	*IEC 61643-11 *EN 61643-11



PART NUMBERS

XXX	320	680
STPT12-5KXXXV-3P-R	83120261	83120243
STPT12-5KXXXV-3P-RM (with Microswitch)	83120262	83120244

SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

STPT12-5KXXXV-3P-R, STPT12-5KXXXV-3P-RM (with Microswitch)	320	680
Maximum continuous operating voltage (AC) - Uc [V]	640	1360
Nominal voltage AC 50-60 Hz - Un [V]	277/480	480/830
Nominal discharge current (8/20)- In [kA]		20
Max Discharge Current (8/20) - I _{max} [kA]		40
Maximum peak voltage withstand (DC) (L-PE) - U _{peak} (L-PE) [V]	840	1700
Lightning impulse current (10/350) - I _{imp} [kA]		5
Voltage protection level at In - U _p [kV]	≤3	≤5
Maximum back-up fuse [A [gG]]		125
Short circuit withstand- I _{sc} [kA]		25
Response time - t _A [ns]		≤25
Dynamic thermal disconnection		Yes
Thermal protection behaviour	OCM (Open Circuit Mode)	

MECHANICAL AND ENVIRONMENTAL FEATURES

STPT12-5KXXXV-3P-R, STPT12-5KXXXV-3P-RM (with Microswitch)	320	680
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	
Torque rating [N m]	3	
Remote indication conductor cross section [mm ²]	0.08 ... 1.5	
Remote indication switching capacity [V/A]	AC: 125/3 DC: 250/1	
Remote Indication Torque [N m]	0.2	

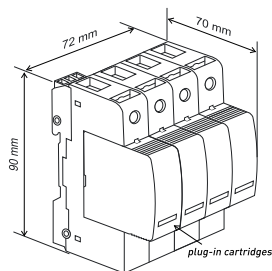
DATASHEET

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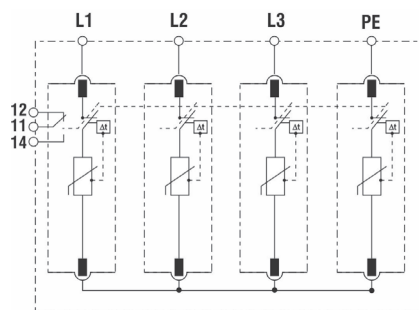
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DIMENSIONS AND WEIGHT



STPT12-5KXXXV-3P-R	320	680
STPT12-5KXXXV-3P-RM (with Microswitch)		
Net Weight [kg]	0.427	0.644
Gross weight [kg]	0.454	0.71
Packaging dimensions (H x W x L) [mm]	117 x 78 x 90	120 x 75 x 105

INTERNAL CONFIGURATION



REPLACEMENT CARTRIDGES

STPT12-5KXXXV-3P-R	320	680
STPT12-5KXXXV-3P-RM (with Microswitch)		
SP12-5KXXXV (Line)	83120020	83120025

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