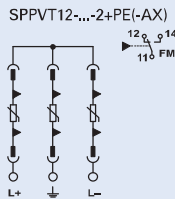


SPD-Type T1/T2, plug-in surge arresters SPPVT12-...-2+PE(-AX)

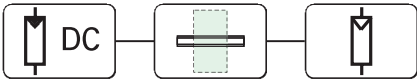
- Increased safety through compliance with the EN 50539-11 standard
- Safe contacting thanks to integrated rotary bolts
- Easy to replace thanks to a plug-type arrester
- Optimal protection of the inverter thanks to a low protection level
- Selective replacement of defective connectors thanks to a visual status indicator
- Optimized planning of maintenance interventions thanks to remote signalling
- No wrong connecting possible thanks to coded connectors and base elements
- Always the right arrester thanks to universal Type1/Type2 protective components

Connection diagram



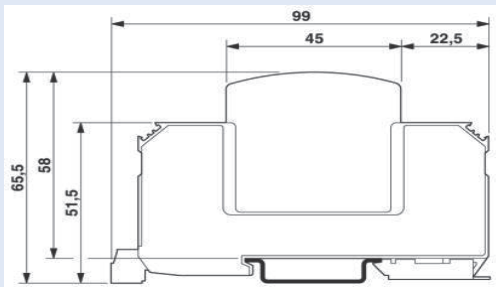
Technical Data

	SPPVT12-06-2+PE(-AX)	SPPVT12-10-2+PE(-AX)
Environmental condition		
Degree of protection	IP20	IP20
Ambient temperature of operation	-40 ... +80°C	-40 ... +80°C
Altitude	≤ 2000 m	≤ 2000 m
Allowed range of air humidity of operation	5 ... 95 %	5 ... 95 %
General		
Standards/regulations	EN 50539-11	EN 50539-11
EN Test class	PVT1/PVT2	PVT1/PVT2
SPD failure performance	OCM	OCM
Mounting	Din rail according 35 mm	Din rail according 35 mm
Material Enclosure	PBT/PA	PBT/PA
Pollution degree	II	II
Flammability class acc. to UL94	V0	V0
Signal for surge protection defective	visual, with remote signalling contact	visual, with remote signalling contact
Protective circuit on the direct current side (DC)		
Max. Cont. Op. Volt. U_{CPV}	720 V DC	1050 V DC
No-load output voltage U_{OCSTC}	≤ 600 V DC	≤ 875 V DC
Short-circuit current strength I_{SCPV}	1000 A	1000 A
Nominal load current I_L	80 A DC	80 A DC
Protective conductor current I_{PE}	≤ 20 μA (DC) ≤ 350 μA (AC)	≤ 20 μA (DC) ≤ 350 μA (AC)
Standby power consumption P_C	≤ 20 mVA	≤ 25 mVA
Nominal discharge current (8/20) μs	15 kA	15 kA
Maximum discharge current I_{max} (8/20) μs	40 kA	40 kA
Din rail according (10/350) μs, peak current I_{imp}	5 kA	5 kA
Total lightning discharge current I_{Total} (8/20) μs	40 kA	40 kA
Total lightning discharge current I_{Total} (10/350) μs	7 kA	5 kA
Voltage protection level U_p (L+) - (L-)	≤ 2.6 kV	≤ 3.5 kV
Voltage protection level U_p (L+/L-) - PE	≤ 2.6 kV	≤ 3.5 kV
Responding time t_A	≤ 25 ns	≤ 25 ns
Required max. back-up fuse with stub-line wiring	not necessary	not necessary
Size		
Depth	99 mm	99 mm
Width	53.4 mm	53.4 mm
Depth	65.5 mm	65.5 mm
Module units (mu)	3 TE	3 TE
Weight		
...+PE	gross 407 g / net 379 g	gross 407 g / net 379 g
...+PE-AX	gross 414 g / net 386 g	gross 414 g / net 386 g
Connection data		
Type of connection	Screw connection	Screw connection
Lift terminal capacity		
flexible	1.5-25 mm ²	1.5-25 mm ²
rigid	1.5-35 mm ²	1.5-35 mm ²
Bolt thread	M5	M5
Tightening torque	4.5 Nm	4.5 Nm
Stripping length	16 mm	16 mm
Type of connection	Biconnect-terminals	Biconnect-terminals
Lift terminal capacity		
flexible	1.5-16 mm ²	1.5-16 mm ²
Bolt thread	M6	M6
Tightening torque	30 lb in	30 lb in



	SPPVT12-06-2+PE-AX	SPPVT12-10-2+PE-AX
Auxiliary switch		
Switching function	change-over, 1pole	change-over, 1pole
Rated operational voltage	5 ... 250 V AC, 30 V DC	5 ... 250 V AC, 30 V DC
Rated operational current	5 mA ... 1.5 A AC, 1.5 A DC	5 mA ... 1.5 A AC, 1.5 A DC
Type of connection	MC 1,5/3	MC 1,5/3
Lift terminal capacity		
flexible	0.14-1.5 mm ²	0.14-1.5 mm ²
rigid	0.14-1.5 mm ²	0.14-1.5 mm ²
Lift terminal capacity AWG/kcmil	30 ... 14	30 ... 14
Bolt thread	M2	M2
Tightening torque	0.25 Nm, 2 ... 4 lb in	0.25 Nm, 2 ... 4 lb in
Stripping length	7 mm	7 mm

Dimensions (mm)



xPole