



Surge Protection Device (SPD) FP T1-300-12,5

Class 1+2

Surge Protection Device Class 1+2 plug-in

$U_c=300V$, $I_{imp}=12.5kV$, $U_p=1.5kV$

Location of use : Main Distribution Boards

Network systems : TT, TN

Mode of protection : L-N, N-PE

Class : Class 1+2

Compliance : IEC 61643-11:2011

EN 61643-11:2012+A11:2018



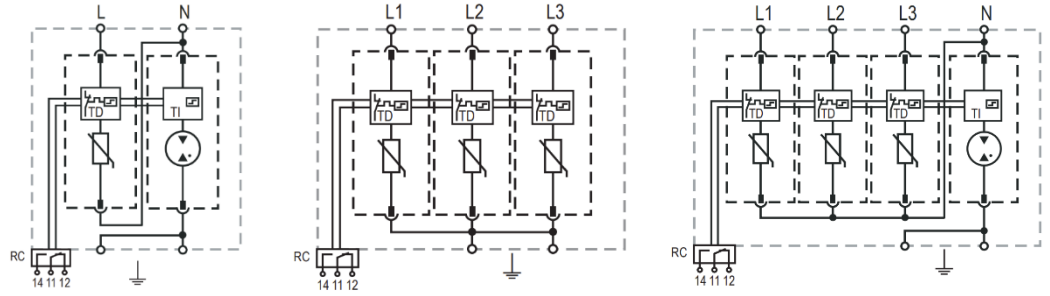
Technical Data

Reference	24107	24108	24109
Name	FP T1-300-12,5-2	FP T1-300-12,5-3	FP T1-300-12,5-4
Surge protector type	Single-phase	Three-phase	Three-phase+N
Nominal AC voltage (50/60Hz)	U_o/U_n		240V
Maximum continuous operating voltage	(L-N)	U_c	300V
	(N-PE)	U_c	305V
Nominal discharge current (8/20 μ s)	(L-N)/(N-PE)	I_n	20kA / 50kA
Maximum discharge current (8/20 μ s)	(L-N)/(N-PE)	I_{max}	40kA / 100kA
Impulse discharge current (10/350 μ s)	(L-N)/(N-PE)	I_{imp}	12.5kA/ 50kA
Specific energy	(L-N)/(N-PE)	W/R	39 kJ / Ω / 625 kJ / Ω
Charge	(L-N)/(N-PE)	Q	6.25 As / 25 As
Voltage protection level	(L-N)/(N-PE)	U_p	1.5kV / 1.5kV
Follow current interrupt rating (AC)	(N-PE)	I_{fi}	100A
Response time	(L-N)/(N-PE)	t_A	< 25ns / < 100ns
Overcurrent protection (max)			160 A gG
Fuse rating recommended		I_{imp}	125A
		I_{imp}	12.5kA
Short-circuit current rating (AC)	(L-N)	I_{SCCR}	50kA
TOV withstand 5s	(L-N)	U_T	337V
Tov 120min	(L-N)	U_T	442V
TOV withstand 200ms	(N-PE)	Mode	Safe Fail
TOV withstand 200ms	(N-PE)	U_T	1200V
Operating temperature range		T_a	-40 °C to +85 °C
Permissible operating humidity		RH	5%...95%
Terminal screw torque		M_{max}	4.5Nm
Conductor cross section (max)			2 AWG (solid, stranded) / 4 AWG (flexible)
			35mm ² (solid, stranded) / 25 mm ² (flexible)
Mounting			35 mm DIN rail, EN 60715
Degree of protection			IP 20 (built-in)
Housing material			Thermoplastic: extinguishing degree UL 94 V-0
Thermal protection			Yes
Operating state / fault indication			Green / Red
Remote contacts (RC)			Yes
RC switching capacity			AC: 250 V / 1A, 125 V / 1 A; DC: 48 V / 0.5 A, 24 V / 0.5 A, 12 V / 0.5 A
RC conductor cross section (max)			16 AWG (solid) / 1.5 mm ² (solid)

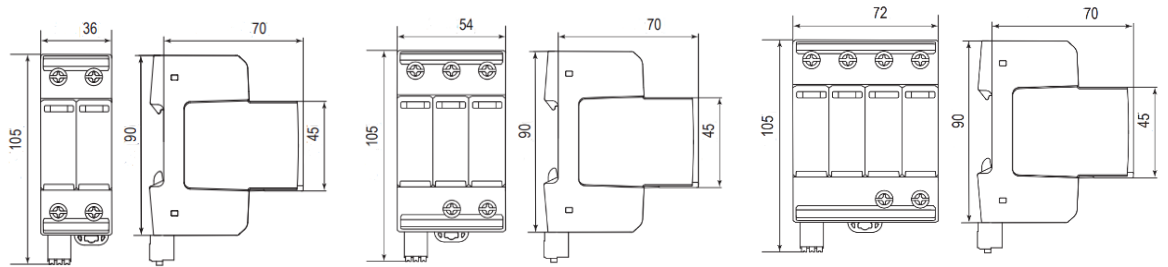
Internal Configuration

Legend

L	Line Conductor Terminal
N	Neutral Conductor Terminal
⏏	PE Conductor Terminal
RC	Remote Contacts Terminal
TD	Thermal Disconnecter
TI	Thermal Indication



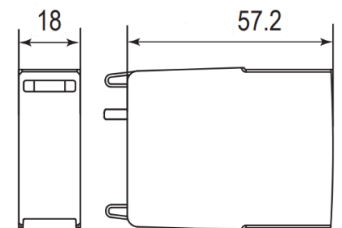
Dimensions & Packaging



Reference	24107	24108	24109
Name	FP T1-300-12,5-2	FP T1-300-12,5-3	FP T1-300-12,5-4
Weight	312 g	540 g	644 g
Number of modules	2	3	4
Packaging dimensions	109 × 115 × 352 mm		

Spare Plug

Reference	24105	24192
Name	FP T1-300-12,5	T1N-305-100
Type	Phase	Neutral
Weight	116 g	
Number of modules	1	
Packaging dimensions	109 × 116 × 352 mm	



Circuit Breaker

Reference	24107	24108	24109
Name	FP T1-300-12,5-2	FP T1-300-12,5-3	FP T1-300-12,5-4
Circuit breaker reference	20012	20016	20011
Fuse reference	80318		

