



FP T1-300-12.5-4

Three-phase + N - Iimp 12.5 kA - Uc 300 V - Up 1.5 kV

Reference: 24109

Location of use: Electrical panel

Earth connection: TT, TN

Protection mode: L-N/N-PE

IEC/EN category: Class 1+2 / Type 1+2

Compliance: IEC 61643-11:2011 / IEC 61643-11:2011+A11:2018



Class 1 + 2

Technical Datasheet

SPD configuration			Three-phase + N (3+N)
Nominal AC voltage (50/60 Hz)	Uo/Un		240 V
Maximum continuous operating voltage	Uc	(L-N) / (N-PE)	300 V / 305 V
Nominal discharge current (8/20 µs)	In	(L-N) / (N-PE)	20 kA / 50 kA
Maximum discharge current (8/20 µs)	I _{max}	(L-N) / (N-PE)	40 kA / 100 kA
Impulse discharge current (10/350 µs)	I _{imp}	(L-N) / (N-PE)	12.5 kA / 50 kA
Specific Energy	W/R	(L-N) / (N-PE)	39 kJ / Ω / 625 kJ / Ω
Charge	Q	(L-N) / (N-PE)	6.25 As / 25 As
Voltage protection level	Up	(L-N) / (N-PE)	1.5 kV
Follow current interrupt rating (AC)	I _{fi}	(N-PE)	100 kA
Response time	t _A	(L-N) / (N-PE)	<25 ns / <100 ns
Overcurrent protection (max)			160 A gG
Overcurrent protection (recommended)			125 A (I _{imp} 12.5 kA)
Short-circuit current rating (AC)	I _{sc}	(L-N)	50 kA
TOV withstand 120 min	UT / Mode		442 V / Secure disconnection
TOV safe fail 200 ms	UT	(N-PE)	1200 V
Operating temperature range	T _a		-40°C à +85°C
Permissible operating humidity	RH		5%...95%
Terminal screw torque	M _{max}		4,5 Nm
Conductor cross-section (max)			2 AWG (rigide) / 4 AWG (flexible)
			35 mm ² (rigide) / 25 mm ² (flexible)
Mounting			Rail DIN 35 mm, EN 60715
Degree of protection			IP 20 (integrated)
Housing material			Thermoplastic: extinction degree UL 94 V-0
Thermal protection			Yes
"Operational / Fault" indication			Green / Red
Remote contacts (RC)			Yes
RC switching capacity			AC : 250 V / 1 A, 125 V / 1 A; DC : 48 V / 0.5 A, 12 V / 0.5 A
RC conductor cross-section (max)			16 AWG (rigide) / 1.5 mm ² (rigide)





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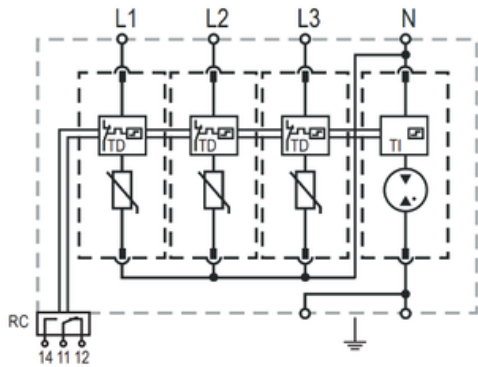
Compliance: IEC 61643-11:2011 / IEC 61643-11:2011+A11:2018



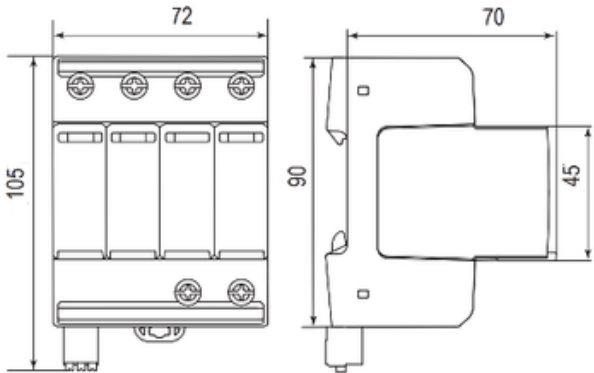
Class 1 + 2

Technical Datasheet

Internal design



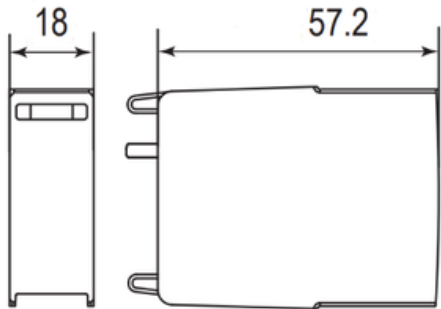
External design



Reference	24109
Name	FP T1-300-12.5-4
Description	Three-phase + N - limp 12.5 kA - Uc 300 V - Up 1.5 kV
Number of modules	4
Weight	644 g

Spare plug

Reference	24105	24194
Name	FP T1-300-12.5	FP T1N-305-50
Type	Phase	Neutral
Weight	116 g	116 g
Number of modules	1	1
Packaging dimensions	109 x 116 x 352 mm	109 x 116 x 352 mm



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