



Surge Protection Device (SPD)

FP T1-440-35-1

Class 1+2

Surge Protection Device Class 1+2

UC=440V, Iimp=35kA, Up=2,5kV

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



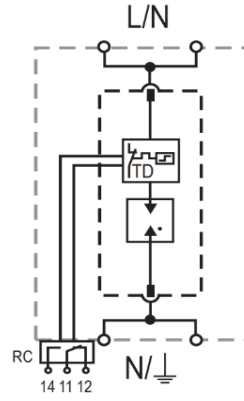
Technical Data

Reference	24156	
Name	FP T1-440-35-1	
Surge protector type	Single Phase	
Nominal AC voltage (50/60Hz)	U_o/U_n	400V
Maximum continuous operating voltage (N-PE)	U_c	440V
Nominal discharge current (8/20 μ s) (L-N)/(N-PE)	I_n	35kA
Maximum discharge current (8/20 μ s) (L-N)/(N-PE)	I_{max}	50kA
Impulse discharge current (10/350 μ s) (L-N)/(N-PE)	I_{imp}	35kA
Specific energy (L-N)/(N-PE)	W/R	306,25 kJ / Ω
Charge (L-N)/(N-PE)	Q	17,5As
Voltage protection level (L-N)/(N-PE)	U_p	2500V
Follow current interrupt rating (AC) (N-PE)	I_{fi}	100A
Response time (L-N)/(N-PE)	t_A	< 100ns
Overcurrent protection (max)		400A gG
Short-circuit current rating (AC) (L-N)	I_{SCCR}	100kA
TOV withstand 5s (L-N)	U_T	762V
TOV 120min (L-N)	U_T	1640V
TOV withstand 200ms (N-PE)	U_T	-40 °C to +85 °C
Operating temperature range	T_a	5%...95%
Permissible operating humidity	RH	4.5Nm
Terminal screw torque	M_{max}	100kA
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)

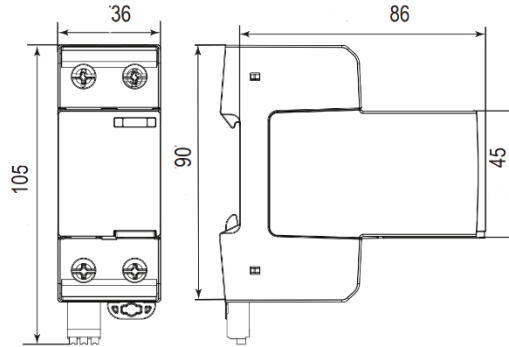
Internal Configuration

Legend

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



Dimensions & Packaging



Reference	24156
Name	FP T1-440-12,5-3
Weight	202 g
Number of modules	2
Packaging dimensions	109 × 115 × 352 mm

Spare Plug

Reference	24156
Name	FP T1-440-12,5
Type	Phase
Weight	116 g
Number of modules	2
Packaging dimensions	109 × 116 × 352 mm

