FLT-CP-350-ST - Type 1 surge protection plug

2881887

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Type 1 / Class I / B arrester (lightning current arrester) replacement plug for paths L-N and L-PEN, can be combined with FLASHTRAB compact series of products.

Commercial data

Item number	2881887
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1211
GTIN	4046356098557
Weight per piece (including packing)	154 g
Weight per piece (excluding packing)	127.93 g
Customs tariff number	85363030
Country of origin	DE

Technical data

Notes

General

Note	Only in parallel connection with VAL-CP-350-ST. The technical parameters are based on the combination of the two products.

Product properties

Product type	Replacement plug
IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN
	TT
Type	Male
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

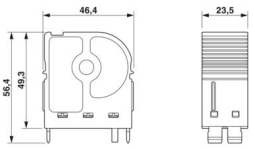
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	23.5 mm
Height	46.6 mm
Depth	56.4 mm
Horizontal pitch	2 HP

Material specifications

Color	blue gray (RAL 7031)
	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600

Insulating material	PA 6.6/PBT
Material group	I
Housing material	PBT

Protective circuit

Mode of protection	L-PEN
	L-N
Direction of action	L-N / L-PEN
Nominal voltage U_N	240 V AC (TN)
	240 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	350 V AC
Operating effective current I_C at U_N	≤ 1 µA
Nominal discharge current I_n (8/20) µs	25 kA
Impulse discharge current (10/350) µs, charge	12.5 As
Impulse discharge current (10/350) µs, specific energy	160 kJ/Ω
Impulse discharge current (10/350) µs, peak value I_{imp}	25 kA
Follow current interrupt rating I_{fi}	25 kA (264 V AC)
	3 kA (350 V AC)
Short-circuit current rating I_{SCCR}	25 kA (264 V AC)
	3 kA (350 V AC)
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n)
	≤ 1.2 kV (at 10 kA)
	≤ 1 kV (at 5 kA)
	≤ 0.9 kV (at 3 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV
TOV behavior at U_T	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	315 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-N)	264 V AC
Nominal discharge current I_n (L-N)	20 kA
Mode of protection	L-N
Nominal voltage	240 V AC
Power distribution system	Split phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	1340 V
Follow current (L-N)	10 kA (264 V AC)
SPD Type	4CA

Standards and regulations

Air clearances and creepage distances

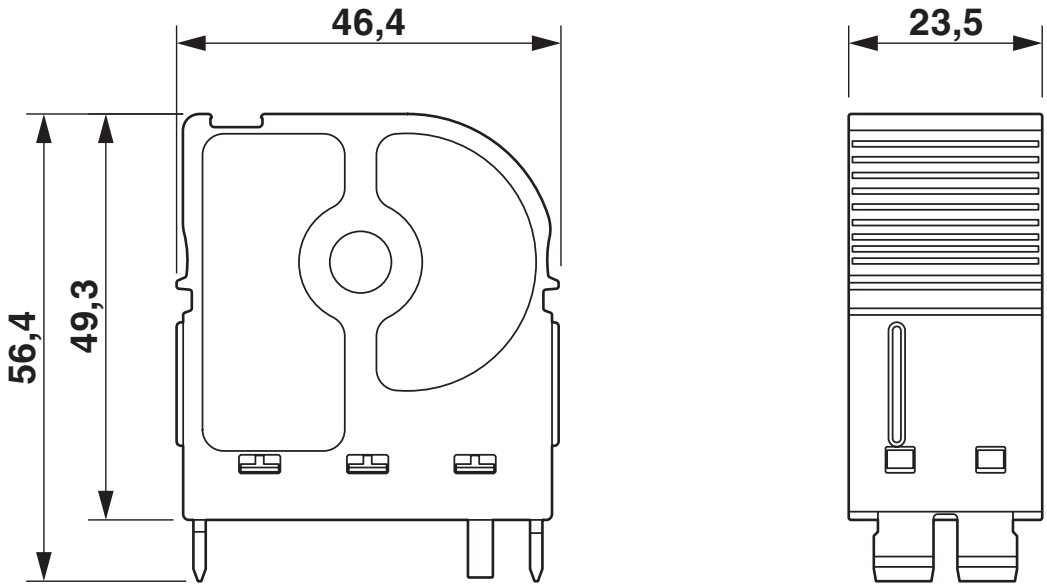
Standards/regulations	IEC 664-1 / IEC 61643-1 / IEC 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

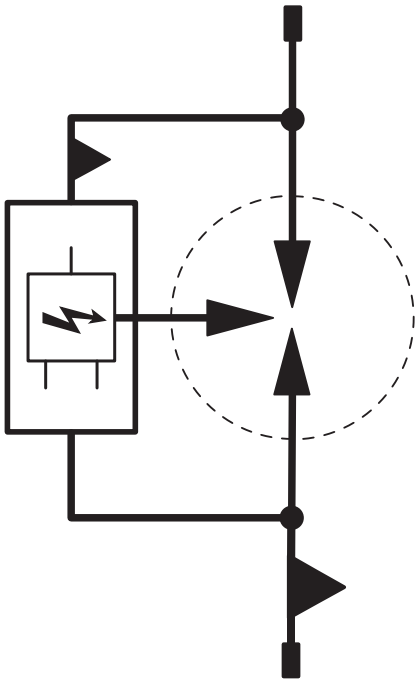
Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171201

ETIM

ETIM 9.0	EC000381

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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