

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

2881887

<https://www.phoenixcontact.com/us/products/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

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## 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.
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### 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

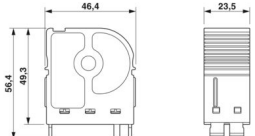
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	pluggable
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### Dimensions

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

### Material specifications

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

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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
Nominal discharge current $I_n$ (8/20) $\mu$ s	25 kA
Impulse discharge current (10/350) $\mu$ s, charge	12.5 As
Impulse discharge current (10/350) $\mu$ s, specific energy	160 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, 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 $U_p$	$\leq 1.5$ kV
Residual voltage $U_{res}$	$\leq 1.5$ kV (at $I_n$ )
	$\leq 1.2$ kV (at 10 kA)
	$\leq 1$ kV (at 5 kA)
	$\leq 0.9$ kV (at 3 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	$\leq 1.5$ kV
TOV behavior at $U_T$	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
Response time $t_A$	$\leq 25$ 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	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x $\pm$ X, $\pm$ Y, $\pm$ Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

## Approvals

### UL specifications

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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
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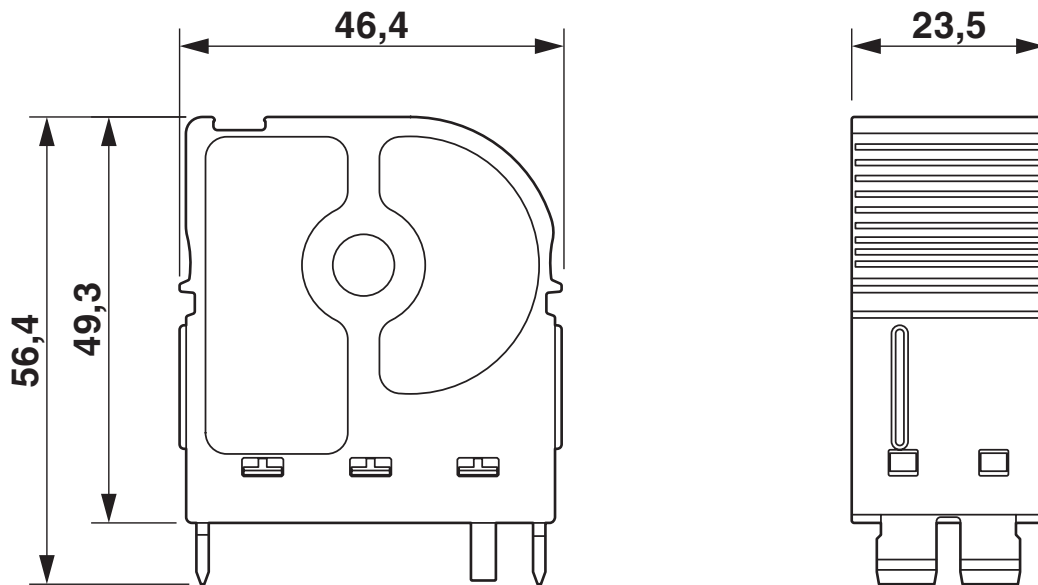
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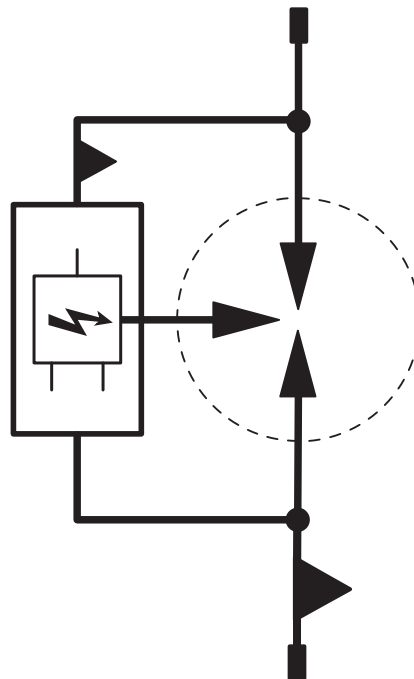
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## Drawings

Dimensional drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0

27171201

### ETIM

ETIM 9.0

EC000381

### UNSPSC

UNSPSC 21.0

39121600

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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