

# Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Type 1 / Class I / B arrester (lightning arrester) replacement plug for path N-PE, can be combined with FLASHTRAB compact series of products.



## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4017918956523

## Technical data

### Dimensions

<b>Width</b>	35.8 mm
<b>Pitch unit</b>	2 Div.

### Ambient conditions

<b>Degree of protection</b>	IP20
<b>Ambient temperature (operation)</b>	-40 °C ... 80 °C

### General

<b>Housing material</b>	PBT
<b>Inflammability class according to UL 94</b>	V0
<b>Color</b>	gray
<b>Standards for air and creepage distances</b>	EN 60664-1
<b>Standards for air and creepage distances</b>	IEC 60664-1
<b>Standards for air and creepage distances</b>	IEC 61643-11
<b>Surge voltage category</b>	III
<b>Pollution degree</b>	2
<b>Mounting type</b>	On base element
<b>Design</b>	DIN rail module, two-section, divisible
<b>Number of positions</b>	1
<b>Message: Surge protection fault</b>	Optical
<b>Direction of action</b>	N-PE

### Protective circuit

# Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686

## Technical data

### Protective circuit

IEC test classification	I
IEC test classification	T1
EN type	T1
Lightning protection class	I /100 kA (TT, TN-C-S)
Nominal voltage $U_N$	240 V AC (N-PE)
Maximum continuous operating voltage $U_c$	350 V AC
Maximum continuous operating voltage $U_c$ (N-PE)	350 V AC
$U_T$ (TOV-proof)	1200 V AC (200 ms / N-PE)
Nominal frequency $f_N$	50 Hz (60 Hz)
Residual current $I_{pE}$	$\leq 5 \mu A$
Standby power consumption $P_c$	$\leq 2 \text{ mVA}$
Power consumption without load $P_c$	$\leq 0.35 \text{ mW}$
Nominal discharge current $I_n$ (8/20) $\mu s$	100 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (N-PE)	100 kA
Impulse discharge current (10/350) $\mu s$ , charge	50 As
Impulse discharge current (10/350) $\mu s$ , specific energy	2.50 MJ/ $\Omega$ (N-PE)
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	100 kA
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu s$	$\leq 1.5 \text{ kV}$
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu s$ (N-PE)	$\leq 1.5 \text{ kV}$
Voltage protection level $U_p$	$\leq 1.5 \text{ kV}$
Voltage protection level $U_p$ (N-PE)	$\leq 1.5 \text{ kV}$
Residual voltage	$\leq 1.5 \text{ kV}$ (at $I_n$ )
Residual voltage	$\leq 1 \text{ kV}$ (at 10 kA)
Residual voltage	$\leq 0.9 \text{ kV}$ (at 5 kA)
Residual voltage	$\leq 0.8 \text{ kV}$ (at 3 kA)
Residual voltage (N-PE)	$\leq 1.5 \text{ kV}$ (at $I_n$ )
Residual voltage (N-PE)	$\leq 1 \text{ kV}$ (at 10 kA)
Residual voltage (N-PE)	$\leq 0.9 \text{ kV}$ (at 5 kA)
Residual voltage (N-PE)	$\leq 0.8 \text{ kV}$ (at 3 kA)
Clamping voltage ringwave	$\leq 1.3 \text{ kV}$ (category C3 20 kV/10 kA)
Clamping voltage ringwave	$\leq 1.2 \text{ kV}$ (category C2 10 kV/5 kA)
Clamping voltage ringwave	$\leq 1.1 \text{ kV}$ (category B3/C1 6 kV/3 kA)
Response time	$\leq 100 \text{ ns}$
Response time (N-PE)	$\leq 100 \text{ ns}$
Follow current quenching capacity $I_f$ (N-PE)	100 A

### Connection, protective circuit

Connection type IN	FLASHTRAB/VALVETRAB plug-in system
Connection type OUT	FLASHTRAB/VALVETRAB plug-in system

### Standards and Regulations

Standards/regulations	IEC 61643-1 2005
-----------------------	------------------

# Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686

## Technical data

### Standards and Regulations

Standards/regulations	EN 61643-11 2002
Standards/regulations	EN 61643-11/A11 2007
Standards/regulations	UL 1449 ed. 2
Standards/regulations	IEEE C62.41
Standards/regulations	BS 6651

## classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27140201

### ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## approvals

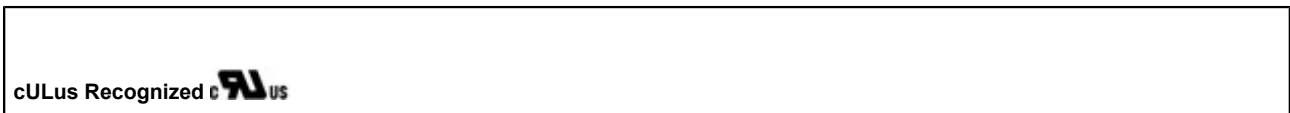
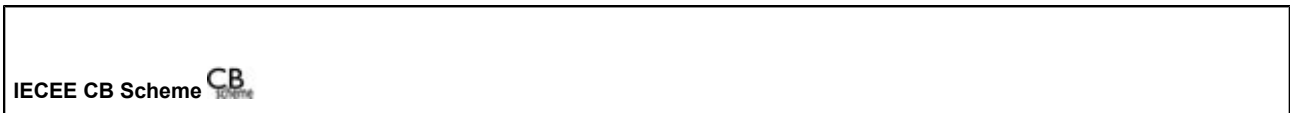
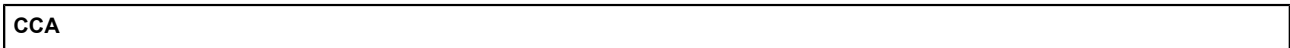
UL Recognized / KEMA-KEUR / cUL Recognized / GOST / CCA / IECB Scheme / cULus Recognized /

### Approval details



# Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686

approvals



accessories

## Device marking

ZBN 18:UNBEDRUCKT - 2809128



---

## Labeled device marker

ZBN 18,LGS:L1-N,ERDE - 2749576



## Type 1 surge protection plug - FLT-CP-N/PE-350-ST - 2859686

### accessories

ZBN 18,LGS:ERDE - 2749589



---

### Marker pen

B-STIFT - 1051993



---

### Terminal marking

ZBFM 5/WH:UNBEDRUCKT - 0803595



---

### accessories

ZBN 18:SO/CMS - 0800763



---

### Drawings

© Phoenix Contact 2013 - all rights reserved  
<http://www.phoenixcontact.com>