

## Type 2 surge protection plug - VAL-CP-N/PE-350-ST - 2859699

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Replacement plug for VAL-CP surge arrester with N-PE spark gap.



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	48.48 GRM
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	46.4 mm
Width	11.7 mm
Depth	56.4 mm

#### 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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 - 500 Hz / 2.5 h / X, Y, Z)

#### General

Standards/specifications	IEC 61643-11 2011
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### Technical data

#### General

	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
SPD design	Voltage-switching type
Mode of protection	N-PE
Mounting type	On base element
Color	gray/blue
Housing material	PBT-FR
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical

#### Protective circuit

Nominal voltage $U_N$	240 V AC (TN - only N-PE)
	240 V AC (TT - only N-PE)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$ (N-PE)	264 V AC
Residual current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (N-PE)	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu s$ (N-PE)	40 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A (264 V AC)
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Residual voltage $U_{res}$ (N-PE)	$\leq 0.5$ kV (at $I_n$ )
	$\leq 0.5$ kV (at 10 kA)
	$\leq 0.5$ kV (at 5 kA)
	$\leq 0.5$ kV (at 4 kA)
	$\leq 0.5$ kV (at 2 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu s$ (N-PE)	$\leq 1.5$ kV
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / withstand mode)
Response time $t_A$ (N-PE)	$\leq 100$ ns

#### NEMA/UL protective circuit

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Mode of protection	N-G

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### Technical data

#### NEMA/UL protective circuit

Power distribution system	1
Nominal frequency	50/60 Hz
Voltage protection rating VPR (N-G)	1.2 kV
Nominal discharge current $I_n$ (N-G)	20 kA
Follow current (N-G)	200 A (264 V AC)

### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805

#### ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

#### UNSPSC

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

### Approvals

#### Approvals

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#### Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / GOST / GL / IECCE CB Scheme / CCA / cULus Recognized

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#### Ex Approvals

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## Approvals

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Approvals submitted


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### Approval details

UL Recognized 

KEMA-KEUR 

cUL Recognized 

GOST 

GL

IECEE CB Scheme 

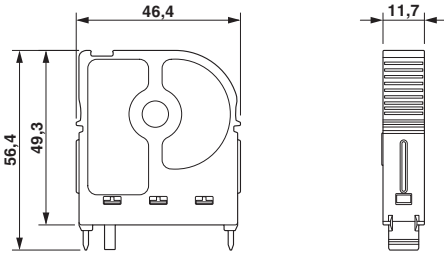
CCA

cULus Recognized 

## Drawings

## Type 2 surge protection plug - VAL-CP-N/PE-350-ST - 2859699

Dimensioned drawing



Circuit diagram

