

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) μs (N-PE)	20 kA
Maximum discharge current I_{max} (8/20) μs (N-PE)	40 kA
Follow current interrupt rating I_{fi} (N-PE)	100 A (264 V AC)
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Residual voltage U_{res} (N-PE)	≤ 0.5 kV (at I_n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.5 kV (at 4 kA)
	≤ 0.5 kV (at 2 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs (N-PE)	≤ 1.5 kV
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t_A (N-PE)	≤ 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

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

Ex Approvals

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Approvals

Approvals submitted

Approval details

UL Recognized 

KEMA-KEUR 

cUL Recognized 

GOST 

GL

IECEE CB Scheme 

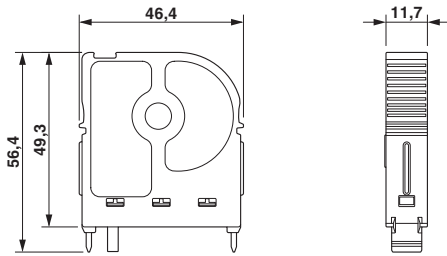
CCA

cULus Recognized 

Drawings

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Dimensioned drawing



Circuit diagram

