

## Type 2 surge protection plug - VAL-CP-175-ST - 2859628

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Replacement plug for VAL-CP surge arrester with high-capacity varistor free of leakage current.



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	43.34 GRM
Custom tariff number	85369010
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-limiting type
Mode of protection	L-PEN
	L-N
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 $U_N$	120 V AC (TN)
	120 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_c$	175 V AC
Nominal discharge current $I_n$ (8/20) $\mu$ s	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	40 kA
Short-circuit current rating $I_{SCCR}$	25 kA
Voltage protection level $U_p$	$\leq 0.85$ kV
Residual voltage $U_{res}$	$\leq 0.85$ kV (at $I_n$ )
	$\leq 0.75$ kV (at 10 kA)
	$\leq 0.65$ kV (at 5 kA)
	$\leq 0.63$ kV (at 4 kA)
	$\leq 0.57$ kV (at 2 kA)
TOV behavior at $U_T$	240 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
Response time $t_A$	$\leq 25$ ns
Max. backup fuse with branch wiring	315 A AC (gG)

#### Connection data

Connection method	VALVETRAB plug-in system
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### Technical data

#### UL specifications

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (L-L)	175 V AC
Mode of protection	L-L
Power distribution system	1
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-L)	0.7 kV
Nominal discharge current $I_n$ (L-L)	20 kA

### 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
eCl@ss 8.0	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 / IECCEB Scheme / CCA / cULus Recognized

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## Approvals

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Ex 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 

## Accessories

Accessories

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### Accessories

#### Bridge

Wiring bridge - MPB SET VAL-CP-3S - 2880684



Wiring bridge set, consisting of three flexible bridges 15 cm black, 1 bridge 27 cm blue.

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#### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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#### Terminal marking

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

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Flat zack marker sheet - ZBFM 5/WH:UNBEDRUCKT - 0803595



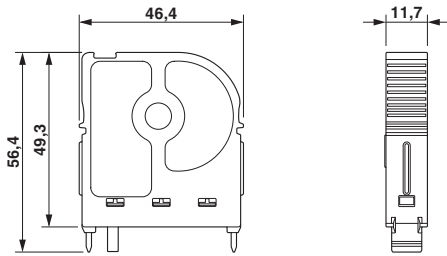
Flat zack marker sheet, Sheet, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 5 x 4.5 mm

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### Drawings

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Dimensioned drawing



Circuit diagram

