

Type 2 surge protection plug - VAL-MS 350 VF ST - 2856595

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surge protection connector type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning. Design: 350 V AC

Key commercial data

package_quantity	10
GTIN	4017918876869

Technical data

Dimensions

Height	52.4 mm
Width	17.7 mm
Depth	54.5 mm
Pitch unit	1 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 %

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Mounting type	On base element
Design	DIN rail module, two-section, divisible
Number of positions	1
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.12
Message: Surge protection fault	Optical
Direction of action	1L-N/PE

Protective circuit

IEC test classification	II
IEC test classification	T2

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Technical data

Protective circuit

EN type	T2
Nominal voltage U_N	230 V AC
Nominal DC sparkover voltage U_{agn}	600 V +30 % / -5 %
Maximum continuous operating voltage U_C	350 V AC
U_T (TOV-proof)	415 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	$\leq 1 \mu A$
Standby power consumption P_C	$\leq 0.7 \text{ mVA}$
Max. discharge current I_{max} (8/20) μs	20 kA
Nominal discharge current I_n (8/20) μs	10 kA
Impulse discharge current (10/350) μs, peak value I_{imp}	3 kA
100% lightning impulse sparkover voltage (1.2/50)μs	$\leq 1.2 \text{ kV}$
Max. energy absorption (2 ms)	550 J
Voltage protection level U_p	$\leq 1.2 \text{ kV}$
Residual voltage	$\leq 1 \text{ kV}$ (at 5 kA)
Residual voltage (L-N)	$\leq 1 \text{ kV}$ (at 5 kA)
Residual voltage (L-PEN)	$\leq 1 \text{ kV}$ (at 5 kA)
Response time	$\leq 100 \text{ ns}$
Response time (L-N)	$\leq 100 \text{ ns}$
Response time (L-PEN)	$\leq 100 \text{ ns}$
Max. required backup fuse with branch wiring	125 A (gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Short-circuit current self-quenching	1.5 kA (rms / without backup fuse)
Capacity	$< 2 \text{ pF}$ (typ.)

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
Standards/regulations	EN 61643-11 2002
Standards/regulations	EN 61643-11/A11 2007
Standards/regulations	UL 1449
Standards/regulations	NF C61-740
Standards/regulations	E DIN VDE 0675-6/A1
Standards/regulations	E DIN VDE 0675-6/A2

classifications

eCl@ss

eCl@ss 4.0	27140201
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classifications

eCl@ss

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

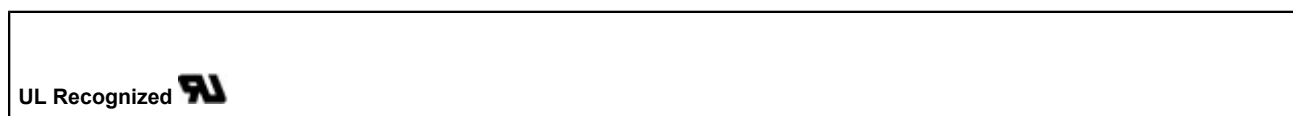
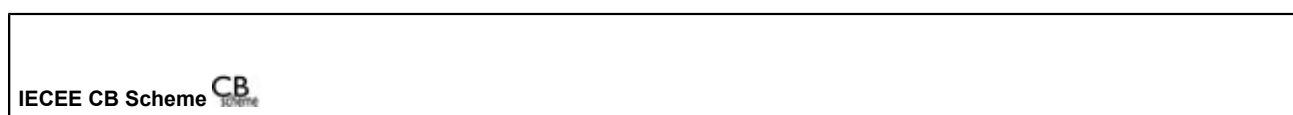
UNSPSC

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

approvals

IECEE CB Scheme / UL Recognized / KEMA-KEUR / ÖVE / cUL Recognized / GOST / CCA / cULus Recognized /

Approval details



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approvals

cUL Recognized 

GOST 

CCA

cULus Recognized 

accessories

Device marking

ZBN 18:UNBEDRUCKT - 2809128



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Labeled device marker

ZBN 18,LGS:ERDE - 2749589



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accessories

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



ZBN 18,LGS:ERDE - 2749589



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



Marker pen

B-STIFT - 1051993



accessories

ZBN 18:SO/CMS - 0800763



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accessories

ZBN 18,LGS:L1-N,ERDE - 2830469

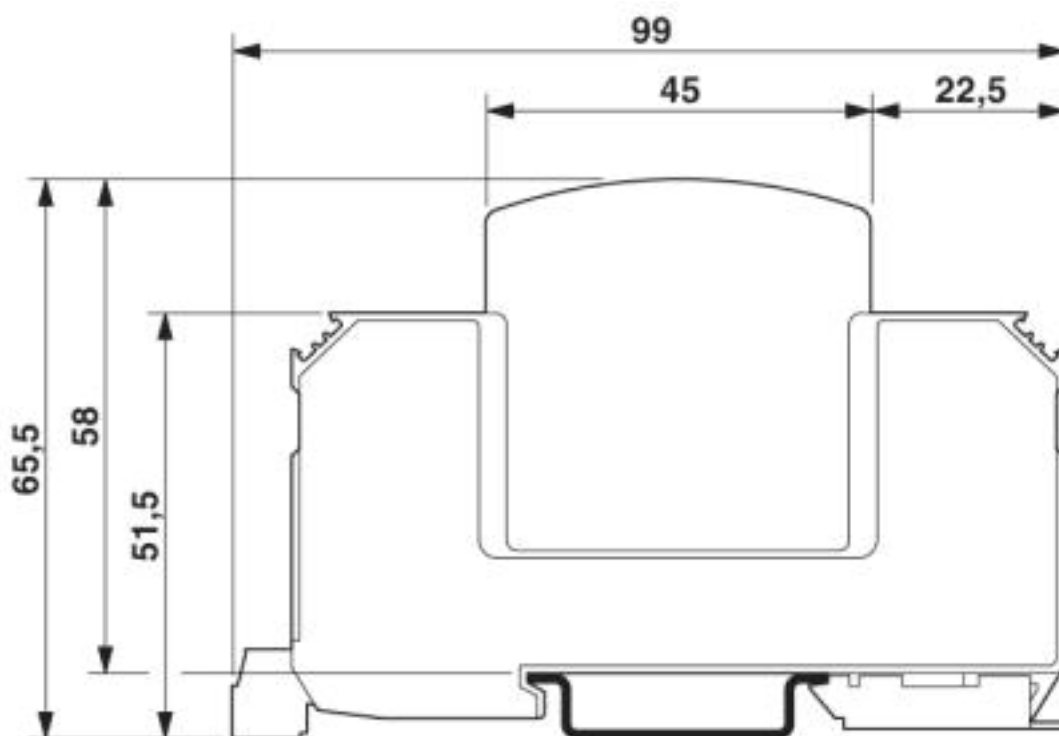


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Drawings

Dimensioned drawing



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Circuit diagram

