

Type 2 surge protection plug - VAL-MS 230 ST - 2798844

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Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 230 V AC



Key commercial data

package_quantity	10
GTIN	4017918073947

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	DIN VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Standards for air and creepage distances	VDE 0675-6
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. 1.10
Message: Surge protection fault	Optical

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Technical data

General

Direction of action	1L-N/PE
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Protective circuit

IEC test classification	II
IEC test classification	T2
EN type	T2
Nominal voltage U_N	230 V AC
Maximum continuous operating voltage U_C	275 V AC
U_T (TOV-proof)	335 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.3 mA
Standby power consumption P_C	≤ 125 mVA
Max. discharge current I_{max} (8/20) μ s	40 kA
Nominal discharge current I_n (8/20) μ s	20 kA
Impulse discharge current (10/350) μ s, peak value I_{imp}	3 kA
Max. energy absorption (2 ms)	550 J
Voltage protection level U_p	≤ 1.35 kV
Residual voltage	≤ 1 kV (at 5 kA)
Residual voltage	≤ 1.15 kV (at 10 kA)
Residual voltage	≤ 1.35 kV (at I_n)
Residual voltage	≤ 950 V (at 3 kA)
Response time	≤ 25 ns
Max. required backup fuse with branch wiring	125 A (gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Capacity	3 nF

Connection, protective circuit

Connection method	FLASHTRAB/VALVETRAB plug-in system connector
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Standards and Regulations

Standards/regulations	IEC 61643-1 2005
Standards/regulations	EN 61643-11/A11 2007
Standards/regulations	UL 1449 ed. 2

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

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classifications

eCl@ss

eCl@ss 8.0	27130805
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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 / CSA / UL Recognized / KEMA-KEUR / ÖVE / cUL Recognized / GOST / GL / CCA / cULus Recognized /

Approval details

IECEE CB Scheme

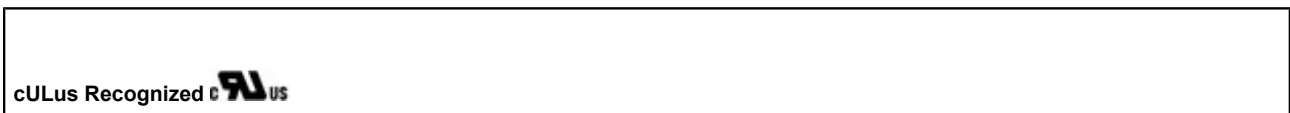
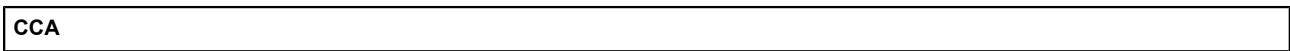
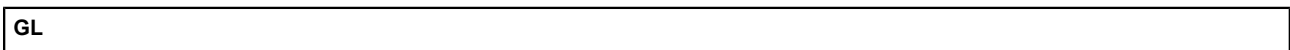
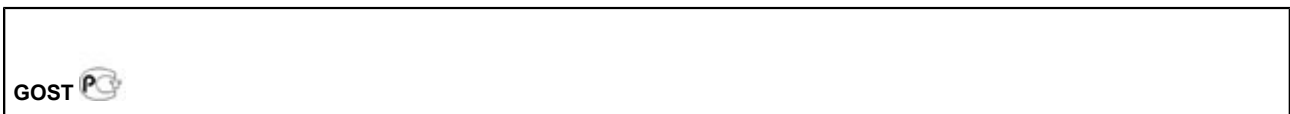
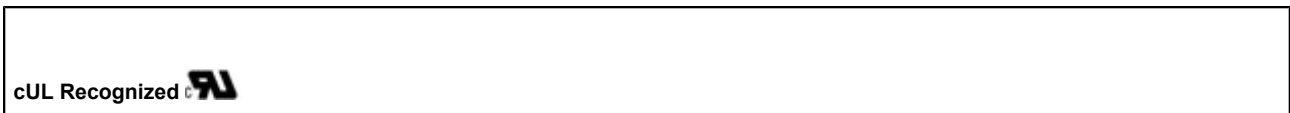
CSA	
Nominal voltage UN	230 V
Nominal current IN	
mm ² /AWG/kcmil	

UL Recognized

KEMA-KEUR

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approvals



accessories

Labeled device marker

ZBN 18,LGS:ERDE - 2749589



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



Device marking

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accessories

ZBN 18:UNBEDRUCKT - 2809128



Marker pen

B-STIFT - 1051993



accessories

ZBN 18:SO/CMS - 0800763



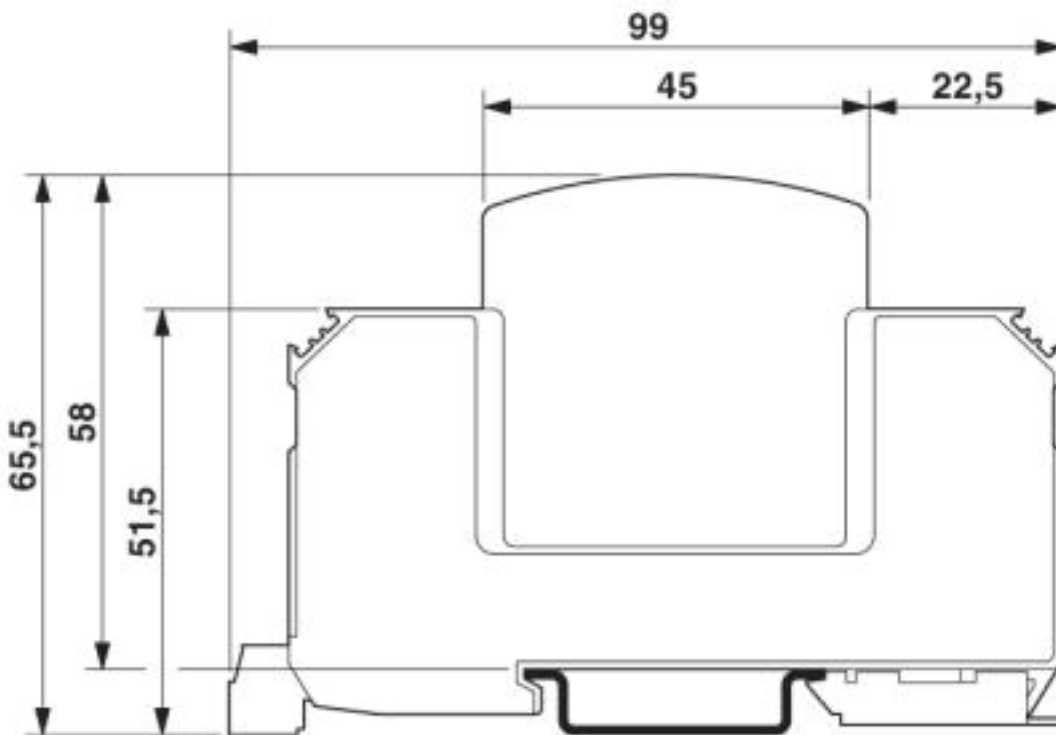
ZBN 18,LGS:L1-N,ERDE - 2830469



Drawings

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Dimensioned drawing



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Circuit diagram

