

Type 2 surge protection plug - VAL-MS 60 ST - 2807573

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Surge protection plug type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 60 V AC



Key commercial data

package_quantity	10
GTIN	4017918075262

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 EN 60664-1
Standards for air and creepage distances	EN 61643-11
Surge voltage category	III
Pollution degree	2
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

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Technical data

General

Message: Surge protection fault	Optical
Direction of action	1L-N/PE

Protective circuit

IEC test classification	II
IEC test classification	T2
EN type	T2
Nominal voltage U_N	60 V AC/DC
Nominal voltage U_N	- 48 V DC (RRH)
Nominal voltage U_N	30 V DC (L/R: 20-60 ms)
Nominal voltage U_N	60 V DC (L/R: 10-20 ms)
Maximum continuous operating voltage U_C	75 V AC
Maximum continuous operating voltage U_C	100 V DC
U_T (TOV-proof)	100 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.45 mA
Standby power consumption P_c	≤ 35 mVA
Max. discharge current I_{max} (8/20) μs	40 kA
Nominal discharge current I_n (8/20) μs	15 kA
Impulse discharge current (10/350) μs, charge	2 As
Impulse discharge current (10/350) μs, peak value I_{imp}	4 kA (5 x pos./5 x neg.)
Max. energy absorption (2 ms)	190 J
Voltage protection level U_p	≤ 500 V
Residual voltage	≤ 500 V
Residual voltage	≤ 325 V (at 5 kA)
Residual voltage	≤ 275 V (at 3 kA)
Response time	≤ 25 ns
Max. required backup fuse with branch wiring	125 A (gG / AC)
Max. required backup fuse with branch wiring	50 A (gG / DC)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA (AC)
Capacity	11 nF ± 30 %

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
Standards/regulations	DIN EN 61643-11 2002
Standards/regulations	DIN EN 61643-11/A11 2007
Standards/regulations	UL 1449 ed. 2
Standards/regulations	IEEE C62.1 / C62.34 / C62.45

classifications

eCI@ss

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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

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

Approval details

IECEE CB Scheme 

CSA 	
Nominal voltage UN	60 V
Nominal current IN	
mm²/AWG/kcmil	

UL Recognized 

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approvals

KEMA-KEUR 

ÖVE 

cUL Recognized 

GOST 

CCA

cULus Recognized 

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



Bridge

MPB F600X16/ 1GS - 2818355



MPB F400X16/ 1GS - 2818342



MPB F200X16/ 1GS - 2818339



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accessories

MPB 18/1-10/1.0.0 - 2830443



MPB 18/1-20/1.2.5 - 2830168



MPB 18/4-12 - 2809296



MPB 18/4- 8 - 2809283



MPB 18/3- 6 - 2809241



MPB 18/1-57 - 2809238



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accessories

MPB 18/1-12 - 2748593



MPB 18/1- 9 - 2748580



MPB 18/1- 8 - 2748577



MPB 18/1- 6 - 2748564



MPB 18/1- 4 - 2809225



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accessories

MPB 18/1- 3 - 2809212



MPB 18/1- 2 - 2809209



accessories

ZBN 18:SO/CMS - 0800763



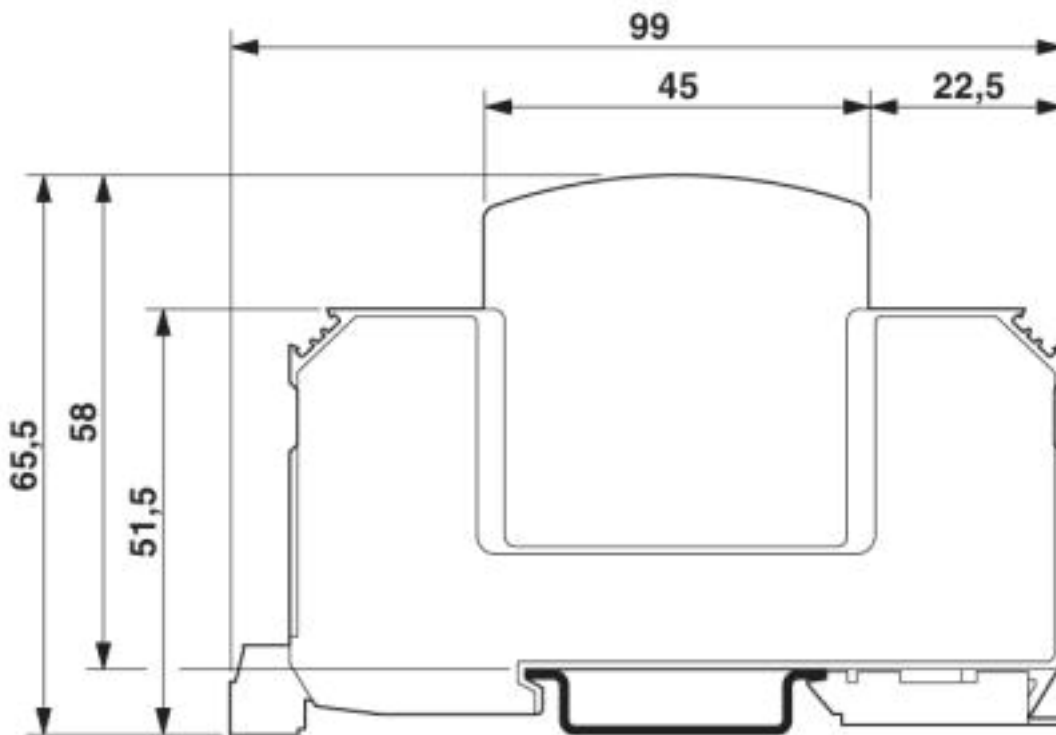
ZBN 18,LGS:L1-N,ERDE - 2830469



Drawings

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Dimensioned drawing



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Circuit diagram

