

Type 2 surge protection plug - VAL-MS 400 ST - 2816399

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Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 400 V AC

Product Features

- ✓ Single-channel, DIN-rail mountable protective devices
- ✓ Mechanical coding of all slots
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Disconnect device on each individual plug
- ✓ Consists of base element and plug
- ✓ Base element with/without floating remote indication contact



Key commercial data

package_quantity	10
GTIN	4017918131593

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

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Technical data

General

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
Direction of action	1L-N/PE

Protective circuit

IEC test classification	II
IEC test classification	T2
EN type	T2
Nominal voltage U_N	400 V AC
Maximum continuous operating voltage U_C	440 V AC
U_T (TOV-proof)	440 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.45 mA
Standby power consumption P_C	≤ 200 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)	950 J
Voltage protection level U_p	≤ 2.2 kV
Residual voltage	≤ 2.2 kV
Residual voltage	≤ 1.8 kV (at 10 kA)
Residual voltage	≤ 1.5 kV (at 5 kA)
Residual voltage	≤ 1.4 kV (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	2 nF ± 30 %

Standards and Regulations

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

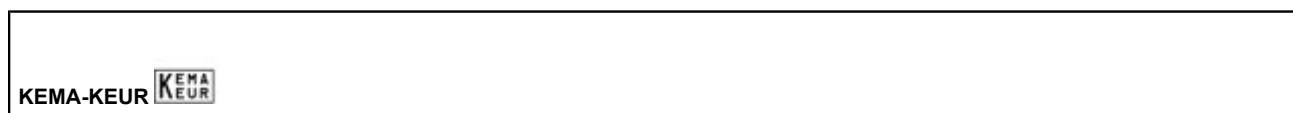
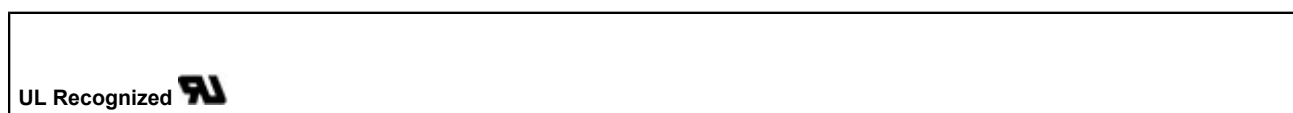
UNSPSC

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

approvals

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

Approval details



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approvals

cUL Recognized 

GOST 

GL

CCA

cULus Recognized 

accessories

Labeled device marker

ZBN 18,LGS:ERDE - 2749589



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



Device marking

ZBN 18:UNBEDRUCKT - 2809128



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accessories

Marker pen

B-STIFT - 1051993



Bridge

MPB F600X16/ 1GS - 2818355



MPB F400X16/ 1GS - 2818342



MPB F200X16/ 1GS - 2818339



MPB 18/1-10/1.0.0 - 2830443



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accessories

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



MPB 18/1-12 - 2748593



Type 2 surge protection plug - VAL-MS 400 ST - 2816399

accessories

MPB 18/1- 9 - 2748580



MPB 18/1- 8 - 2748577



MPB 18/1- 6 - 2748564



MPB 18/1- 4 - 2809225



MPB 18/1- 3 - 2809212



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accessories

MPB 18/1- 2 - 2809209



accessories

ZBN 18:SO/CMS - 0800763



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



Drawings

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Circuit diagram

