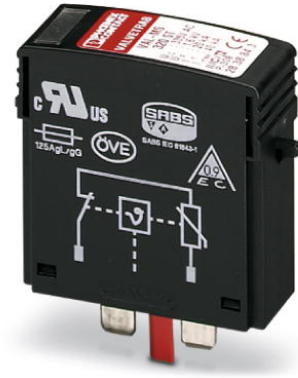


VAL-MS 320 ST


Order No.: 2838843



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2838843>

Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 320 V AC



Commercial data	
GTIN (EAN)	 4 017918 170813
sales group	J022
Pack	10 pcs.
Customs tariff	85363030
Catalog page information	Page 39 (TT-2011)

Product notes

WEEE/RoHS-compliant since:
05/03/2006



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Standards	
Housing material	PA
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	IEC 61643-1
Surge voltage category	III
Pollution degree	2
Degree of protection	IP20
Mounting type	On base element
Design	DIN rail module, two-section, divisible
Number of positions	1
Ambient temperature (operation)	-40 °C ... 80 °C
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
Width	17.70 mm
Height	54.50 mm
Length	52.40 mm
Pitch unit	1 Div.

Protective circuit

IEC category	II
	T2
EN type	T2
Nominal voltage U_N	230 V AC
	277 V AC
Arrester rated voltage U_C	335 V AC
	420 V DC
U_T (TOV-proof)	415 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Ground conductor current I_{PE}	≤ 0.32 mA
Standby power consumption P_C	≤ 110 mW
Max. discharge surge current I_{max} (8/20) μ s	40 kA
Nominal discharge surge current I_n (8/20) μ s	20 kA
Lightning test current (10/350) μ s, peak value I_{imp}	3 kA
Max. energy absorption (2 ms)	640 J
Protection level U_p	≤ 1.5 kV

Residual voltage	≤ 1.2 kV (at 5 kA)
	≤ 1.4 kV (at 15 kA)
	≤ 1.3 kV (at 10 kA)
	≤ 1.5 kV (at I _n)
	≤ 1.1 kV (at 3 kA)
SVR clamp voltage	≤ 1 kV (in acc. with UL 1449)
Response time	≤ 25 ns
Max. required backup fuse with branch wiring	125 A (gL)
Short-circuit resistance I _p with max. backup fuse (effective)	25 kA
Capacity	2.3 nF (typical)

Standards

Standards/regulations	IEC 61643-1 1998
	DIN EN 61643-11 2002
	UL 1449 ed. 2
	IEEE C62.1 / C62.34 / C62.45

Certificates / Approvals



Certification

CB, CCA, CUL, GL, GOST, KEMA, OEVE, UL

Accessories

Item	Designation	Description
Bridges		
2809209	MPB 18/1- 2	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.
2809212	MPB 18/1- 3	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.
2809225	MPB 18/1- 4	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.
2748564	MPB 18/1- 6	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

2748577	MPB 18/1- 8	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.
2748580	MPB 18/1- 9	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.
2748593	MPB 18/1-12	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.
2830168	MPB 18/1-20/1.2.5	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 20 pitches with contact sequence 1-2-0-0-5
2809238	MPB 18/1-57	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.
2809241	MPB 18/3- 6	Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.
2809283	MPB 18/4- 8	Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.
2809296	MPB 18/4-12	Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.
2818339	MPB F200X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 200 mm
2818342	MPB F400X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 400 mm
2818355	MPB F600X16/ 1GS	Wiring bridge flexible, diameter: 16 mm ² , with a fork-type cable lug on one side, length: 600 mm

General

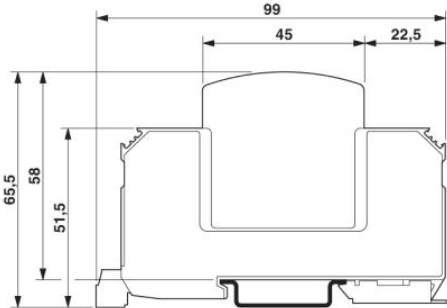
2830443	MPB 18/1-10/1.0.0	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0
---------	-------------------	--

Additional products

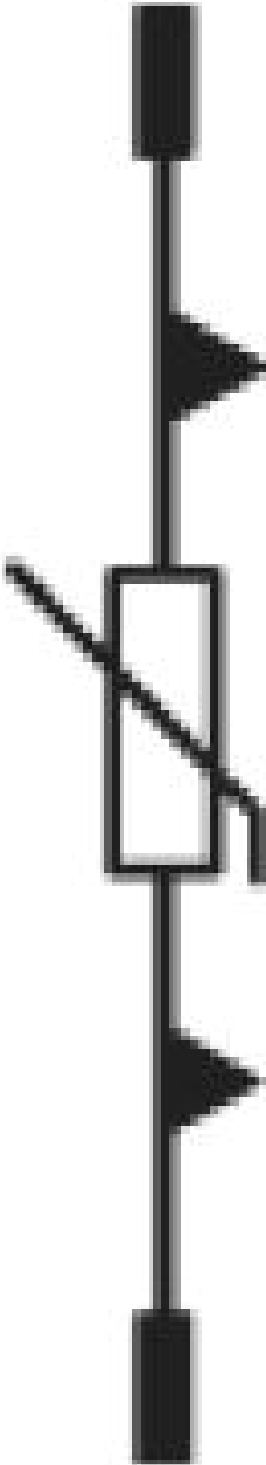
Item	Designation	Description
General		
2817741	VAL-MS BE	Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel
2817738	VAL-MS BE/FM	Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Design: 1-channel

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



© 2011 Phoenix Contact
Technical modifications reserved;