

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 30 (TT-2009)

Product notes

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

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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

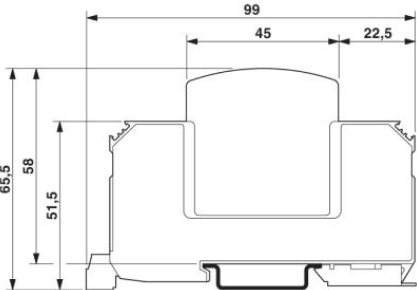
2830443	MPB 18/1-10/1.0.0	Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0
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Additional products

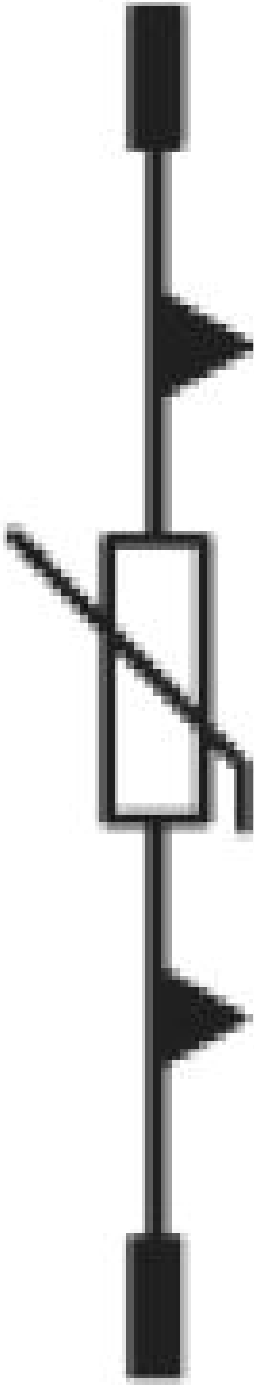
Item	Designation	Description
General		
2817741	VAL-MS BE	Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel
2817738	VAL-MS BE/FM	Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Design: 1-channel

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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