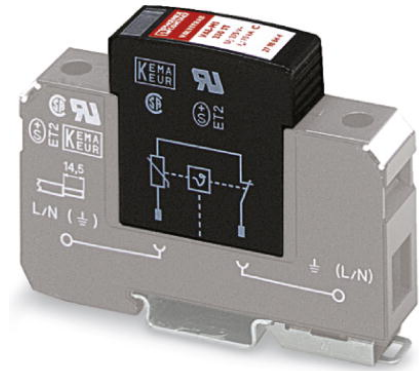


# VAL-MS 230-UD-ST


Order No.: 2858962

The illustration shows version VAL-MS 120-DU ST



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2858962>

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

Commercial data	
GTIN (EAN)	 4 017918 916367
Note	Made-to-order
sales group	J022
Pack	1 pcs.
Customs tariff	85363030

### Product notes

WEEE/RoHS-compliant since:  
06/03/2006



<http://www.download.phoenixcontact.com>  
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Technical data	
<b>Standards</b>	
Housing material	PA 6.6-FR
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	VDE 0675-6
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.
<b>Protective circuit</b>	
IEC category	II
EN type	T2
Nominal voltage $U_N$	230 V AC
Arrester rated voltage $U_C$	275 V AC
Ground conductor current $I_{PE}$	$\leq 0.3$ mA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s	40 kA
Nominal discharge surge current $I_n$ (8/20) $\mu$ s	20 kA
Protection level $U_p$	$\leq 1.35$ kV
Residual voltage	$\leq 1$ kV (at 5 kA)
	$\leq 1.15$ kV (at 10 kA)
	$\leq 1.35$ kV (at $I_n$ )
	$\leq 950$ V (at 3 kA)
Response time	$\leq 25$ ns
Max. required backup fuse with branch wiring	125 A (gL)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA
<b>Standards</b>	
Standards/regulations	IEC 61643-1 1998

	E DIN VDE 0675-6/A1
	E DIN VDE 0675-6/A2
	UL 1449

**Certificates / Approvals**



Certification CUL, GOST, KEMA, UL

**Accessories**

Item	Designation	Description
<b>Marking</b>		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
2749589	ZBN 18,LGS:ERDE	Marking labels, printed horizontally, strips with 5 labels, GND (grounding symbol), color: White
2749576	ZBN 18,LGS:L1-N,ERDE	Marker labels, printed horizontally, strips with 5 labels, L1, L2, L3, N, GND, color: white
0800763	ZBN 18:SO/CMS	Marker labels, 5-section, special printing, labeled according to customer requirements (Please specify the required marking with order), for terminal width: 17.5 mm, color: White
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

**Address**

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Middletown, PA 17057, USA  
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Fax (717) 944-1625  
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