

Type 2 surge protection plug - VAL-MS 120 ST - 2807586

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 120 V AC

Your advantages

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



Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 017918 075279
GTIN	4017918075279
Weight per Piece (excluding packing)	34.400 g
Custom tariff number	85363010
Country of origin	China

Technical data

Dimensions

Height	52.4 mm
Width	17.5 mm
Depth	55.3 mm
Horizontal pitch	1 Div.

Ambient conditions

Type 2 surge protection plug - VAL-MS 120 ST - 2807586

Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
Mode of protection	L-N
	L-PEN
Mounting type	on base element
Color	jet black RAL 9005
Housing material	PA 6.6
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Surge protection fault message	optical

Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	150 V AC
Residual current I_{PE}	≤ 0.45 mA
Standby power consumption P_C	≤ 70 mVA
Nominal discharge current I_n (8/20) μ s	20 kA
Maximum discharge current I_{max} (8/20) μ s	40 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 0.9 kV
Residual voltage U_{res}	≤ 0.9 kV (at I_n)
	≤ 0.7 kV (at 10 kA)
	≤ 0.55 kV (at 5 kA)
	≤ 0.55 kV (at 3 kA)
TOV behavior at U_T	175 V AC (5 s / withstand mode)
	230 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns

Type 2 surge protection plug - VAL-MS 120 ST - 2807586

Technical data

Protective circuit

Max. backup fuse with branch wiring	125 A (gG)
-------------------------------------	------------

Connection data

Connection method	pluggable
-------------------	-----------

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-N)	150 V AC
Mode of protection	L-N
Power distribution system	Single phase
Measured limiting voltage MLV (L-N)	1490 V
Nominal discharge current I_n (L-N)	20 kA

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"