2807609

https://www.phoenixcontact.com/us/products/2807609

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 documentation. Our general terms of use for downloads are valid.



Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 500 V AC

Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Wide range of applications due to various nominal voltages
- · High degree of modularity provides individual solutions for every application

Commercial data

Item number	2807609
Packing unit	10 рс
Minimum order quantity	10 pc
Sales key	CL18
Product key	CL1321
Catalog page	Page 69 (C-4-2019)
GTIN	4017918075293
Weight per piece (including packing)	61.63 g
Weight per piece (excluding packing)	60.34 g
Customs tariff number	85363010
Country of origin	DE

PHŒN

2807609

https://www.phoenixcontact.com/us/products/2807609



Technical data

Notes

General	Use in DC applications on request
General	
Note	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed- conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV- installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a)

Product properties

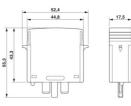
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	IT
Туре	DIN rail module, two-section, divisible
Distance between live and grounded parts	5 mm
Product type	Replacement plug
Product family	VALVETRAB MS
Number of positions	1
Surge protection fault message	optical
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Electrical properties	
Nominal frequency f _N	50 Hz (60 Hz)

Connection data

Connection method	pluggable
	1 00

Dimensions

Dimensional drawing





2807609

https://www.phoenixcontact.com/us/products/2807609

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

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	1
Housing material	PA 6.6

Protective circuit

Mode of protection	L-PE
	L-PEN
Direction of action	1L-N/PE
Nominal voltage U _N	400/690 V AC (TN)
	500 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	600 V AC
Residual current I _{PE}	≤ 0.45 mA
Standby power consumption P _C	≤ 250.00 mVA
Nominal discharge current I_n (8/20) µs	15 kA
Maximum discharge current I _{max} (8/20) µs	30 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 2.7 kV
Residual voltage U _{res}	≤ 2.7 kV (at I _n)
	≤ 2.5 kV (at 10 kA)
	≤ 2.3 kV (at 5 kA)
	≤ 2.2 kV (at 3 kA)
TOV behavior at U _T	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand mode)
Response time t _A	≤ 25 ns
Max. backup fuse with branch wiring	125 A (gG)

Environmental and real-life conditions

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)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)



2807609

https://www.phoenixcontact.com/us/products/2807609

Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)
-----------------------	----------------------------------

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-N)	600 V AC
Nominal discharge current I _n (L-N)	10 kA
Mode of protection	L-N
Nominal voltage	500 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	2370 V
SPD Type	4CA

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

2807609

https://www.phoenixcontact.com/us/products/2807609



Classifications

ECLASS

	ECLASS-11.0	27130890	
	ECLASS-13.0	27171292	
ETIM			
	ETIM 9.0	EC002496	
UNSPSC			
	UNSPSC 21.0	39121600	

2807609

https://www.phoenixcontact.com/us/products/2807609

PHŒNIX CONTACT

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com