

2907043

https://www.phoenixcontact.com/us/products/2907043

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Universal varistor-based plug-in surge arrester for 48 - 60 V DC applications with two conductors plus ground, with remote indication contact



Your advantages

- Dual-channel, panel mountable surge protective device
- · Orthogonal mounting orientation to plug
- · Base element with floating remote indication contact

Commercial data

Item number	2907043
Packing unit	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4055626248981
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85363030
Country of origin	DE



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Technical data

Notes

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Note	For installation into a touch protected cabinet. For applications
	with U _C > 500 V distances at the side and distances at the
	connection area must be minimum of 5 mm between different
	active parts including earthed parts.

Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-S
Туре	DIN rail module, two-section, divisible
Product type	Surge protection for NEMA power supply units
Product family	VALVETRAB MS
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	

Electrical properties

Pollution degree

Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Pomoto fault indicator contact

2

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC
	125 V AC (UL)
	125 V DC (200 mA DC)
Operating current	5 mA AC 1.5 A
	1 A (UL)
	1 A (30 V DC)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	2.5 Nm 3 Nm
	22 lb _f ·in 26.5 lb _f ·in. (UL)
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm²
Conductor cross section flexible max.	25 mm²
Conductor cross section, rigid min.	1.5 mm²
Conductor cross section, rigid max.	35 mm²



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Conductor cross section AWG	15 2
	10 2 (UL)
Remote fault indicator contact	
Connection method	Push-in spring connection
Stripping length	6 mm
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	0.5 mm ²
Conductor cross section, rigid min.	0.14 mm²
Conductor cross section, rigid max.	0.5 mm ²
Conductor cross section AWG	24 20 (UL)
mensions	
Dimensional drawing	22.42
Width	70.6 mm
Height	40.6 mm

Material specifications

Height unit Depth

Flammability rating according to UL 94	V-0
Housing material	PA 6.6
	PBT

85.6 mm

Protective circuit

Mode of protection	L-PE
	N-PE
Direction of action	N-PE
	L-PE
Nominal voltage U _N	60 V AC ±10 % (TN-S)
	60 V DC ±10 %
	-48 V DC ±10 % (RRH)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U_C	75 V AC
	100 V DC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.45 mA
Standby power consumption P _C	≤ 35 mVA
Nominal discharge current I _n (8/20) µs	15 kA
Maximum discharge current I _{max} (8/20) µs	40 kA



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Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 0.55 kV
Residual voltage U _{res}	≤ 0.55 kV (at I _n)
	≤ 0.425 kV (at 10 kA)
	≤ 0.325 kV (at 5 kA)
	≤ 0.275 kV (at 3 kA)
TOV behavior at U _T	100 V AC (5 s / withstand mode)
Response time t _A	≤ 25 ns
Max. backup fuse with V-type through wiring	80 A AC (gG - 16 mm²)
Max. backup fuse with branch wiring	160 A AC (gG)
Additional technical data	
Maximum discharge current I _{max} (8/20) μs	40 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

·		
Maximum continuous operating voltage MCOV (L-N)	75 V AC	
	100 V DC	
Mode of protection	N-G	
	L-G	
	(L+) - (L-)	
	(L+) - G	
	(L-) - G	
Nominal voltage	60 V DC	
Power distribution system	DC	
SPD Type	4CA	
UL indicator/remote signaling		
Operating voltage	125 V AC	
AC operating current	1 A AC	
UL connection data		
Tightening torque	30 lb _€ in.	
Conductor cross section AWG	10 2	



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Mounting

Mounting type	Panel mount
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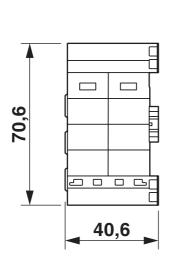


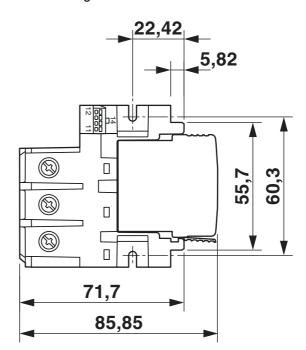
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Drawings

Dimensional drawing

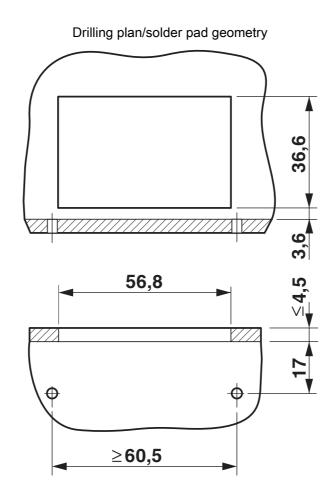






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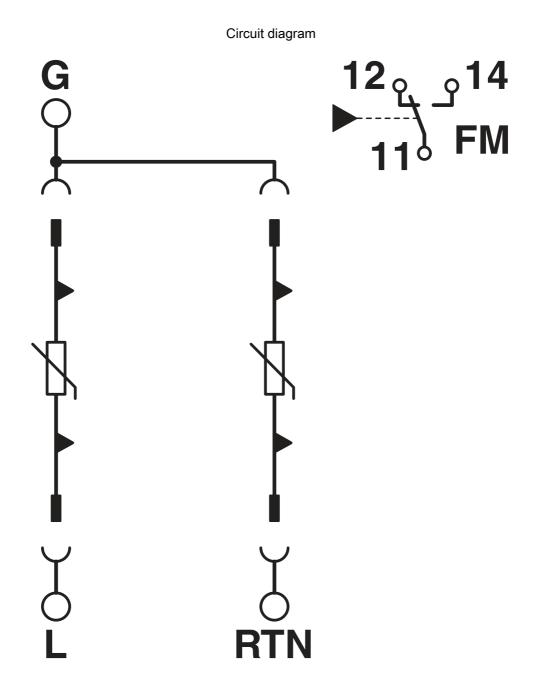
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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2907043



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Approval ID: FILE E 330181



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Classifications

ECLASS

	ECLASS-11.0	27130805		
	LCLA33-11.0	27130003		
	ECLASS-13.0	27171202		
ETIM				
- '	IIVI			
	ETIM 8.0	EC000941		
UNSPSC				

UNSPSC 21.0 39121600



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

MPB F600X16/ 1GS - Wiring bridge

2818355

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Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

MPB F400X16/ 1GS - Wiring bridge

2818342

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Wiring bridge flexible, diameter 16 $\mathrm{mm}^2,$ with a fork-type cable lug on one side, length: 400 mm



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MPB F200X16/ 1GS - Wiring bridge

2818339

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Wiring bridge flexible, diameter 16 $\mathrm{mm}^2,$ with a fork-type cable lug on one side, length: 200 mm

ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589

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Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



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ZBN 18,LGS:L1-N,ERDE - Marker for terminal blocks

2749576

https://www.phoenixcontact.com/us/products/2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

https://www.phoenixcontact.com/us/products/2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



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B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/us/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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VAL-US-48/40-P - Type 2 surge protection plug

2910333

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UL Recognized type 2 SPD and IEC type 2 surge protection plug with a varistor and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

VAL-MS BE/2+0/1U/FM - Base element

2907037

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Universal plug-in surge arrester base for up to 240 V applications with two conductors plus ground, with remote indication contact

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