

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
- · Rack-mount 1U panel applications

Commercial data

Item number	2907043
Packing unit	1 pc
Minimum order quantity	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

	е	

Note	For installation into a touch protected cabinet. For applications
	with $U_C > 500 \text{ V}$ 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

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

Data management status

Insulation characteristics

Pollution degree	2

Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
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



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Conductor cross section flexible max.	25 mm²
Conductor cross section, rigid min.	1.5 mm ²
Conductor cross section, rigid max.	35 mm²
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)

Dimensions

Dimensional drawing	22,42 5,82 1,5,8
Width	70.6 mm
Height	40.6 mm
Rack unit	1 U
Depth	85.6 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6
	PBT

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



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Residual current I _{PE}	≤ 0.45 mA
Standby power consumption P _C	≤ 35.00 mVA
Nominal discharge current I _n (8/20) µs	15 kA
Maximum discharge current I _{max} (8/20) µs	40 kA
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

AC operating current

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

1 A AC



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UL connection data

Tightening torque	30 lb _f -in.
Conductor cross section AWG	10 2

Mounting

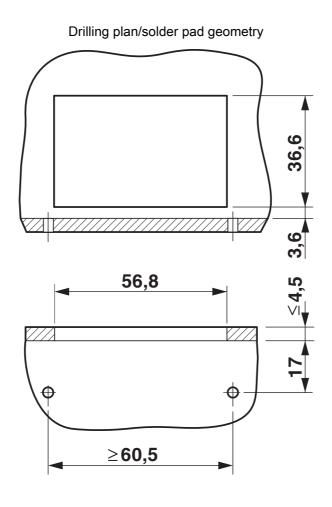
Mounting type	Panel mount
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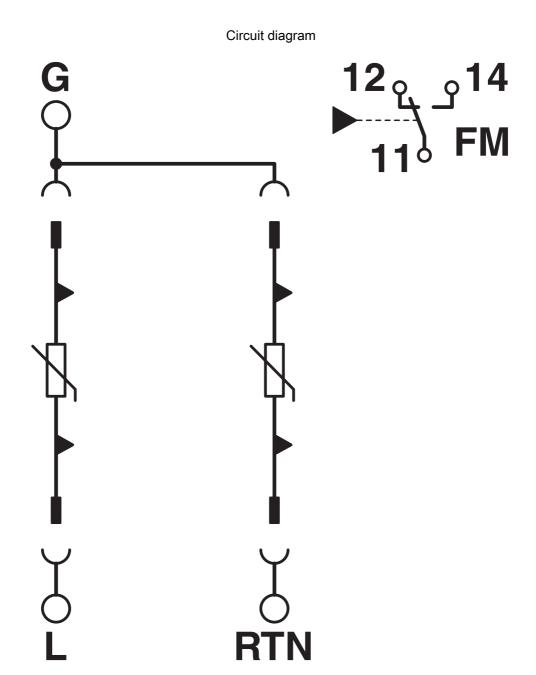
Drawings





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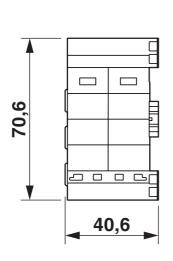


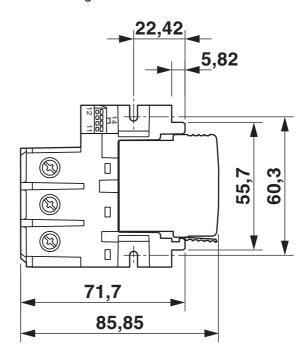


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Dimensional drawing







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Approvals

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



cUL Recognized

Approval ID: FILE E 330181



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Classifications

ECLASS

	ECLASS-11.0	27130805
	ECLASS-13.0	27171202
ETIM		
	ETIM 8.0	EC000941
UN	ISPSC	

UNSPSC 21.0 39121600



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Accessories

MPB F600X16/ 1GS - Wiring bridge

2818355

https://www.phoenixcontact.com/us/products/2818355



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 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

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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

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

SZK PZ2 VDE - Screwdriver

1206463

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Screwdriver, PZ crosshead, VDE insulated, size: PZ 2×100 mm, 2-component grip, with non-slip grip



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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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