

https://www.phoenixcontact.com/in/products/2817974



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Surge arrester type 2, consisting of base element with remote indicator contact and protective plug with N-PE total current spark gap for mounting on NS 35/7.5, housing width: 17.5 mm (1 Div.)

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	2817974
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1
Product key	CL1321
Catalog page	Page 55 (C-4-2017)
GTIN	4017918163655
Weight per piece (including packing)	135.1 g
Weight per piece (excluding packing)	115.23 g
Customs tariff number	85363010
Country of origin	IN



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Technical data

Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	II II
	T2
EN type	T2
IEC power supply system	TN
	π
Туре	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
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
0	E 1/ A 0 0 F 0 1/ A 0

Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1 A AC
	1 A DC

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm ² 16 mm ²)
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm



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Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	96.8 89.8 17.6
Width	17.6 mm
Height	96.8 mm
Depth	65.7 mm (incl. DIN rail 7.5 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/PBT
Material group	I
Housing material	PA 6.6
	PBT

Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U _N	240/415 V AC (TN - only N-PE)
	240/415 V AC (TT - only N-PE)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U_C	260 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 5 µA
Standby power consumption $P_{\mathbb{C}}$	≤ 1.5 mVA
Nominal discharge current I_n (8/20) μ s	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Follow current interrupt rating $I_{\rm fi}$	100 A
Voltage protection level U _p	≤ 1.5 kV
Residual voltage U _{res}	$\leq 0.4 \text{ kV (at I}_{\text{n}})$
	≤ 0.25 kV (at 10 kA)
	≤ 0.15 kV (at 5 kA)
	≤ 0.1 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV



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TOV behavior at U _T	1200 V AC (200 ms / withstand mode)
Response time t _A	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Additional technical data	
Maximum continuous voltage $\mathbf{U}_{\mathbf{C}}$	305 V AC

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)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (N-G)	260 V AC
Nominal discharge current I _n (N-G)	20 kA
Mode of protection	N-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	1490 V
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 _f -in.
Conductor cross section AWG	14 2

Standards and regulations

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

Mounting



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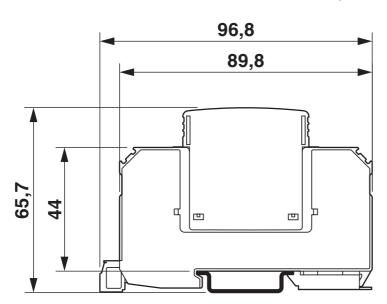
Drawings

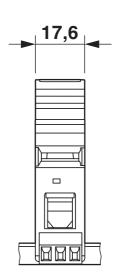
Circuit diagram

12 0 14

110 FM

Dimensional drawing







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/2817974



cUL Recognized

Approval ID: FILE E 330181



UL Recognized

Approval ID: FILE E 330181



IECEE CB Scheme

Approval ID: AT 2905/M1



EAC

Approval ID: EAC-Zulassung

CCA

Approval ID: NTR-AT 1947-A



KEMA-KEUR

Approval ID: 71-148002



DNV GL

Approval ID: TAE000041M



EAC

Approval ID: RU C-DE.*09.B.00169



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

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Classifications

ECLASS

	ECLASS-11.0	27130805	
	ECLASS-13.0	27171202	
ETIM			
ETIIVI			
	ETIM 9.0	EC000941	
UNSPSC			
	UNSPSC 21.0	39121600	



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Environmental product compliance

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Accessories



Note: Applying some accessories below might limit this product.

MPB 18/1-10/1.0.0 - Wiring bridge

2830443

https://www.phoenixcontact.com/in/products/2830443



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

MPB 18/4-8 - Wiring bridge

2809283

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Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.

Max. current carrying capacity: 80 A



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MPB 18/3-6 - Wiring bridge

2809241

https://www.phoenixcontact.com/in/products/2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

1 Max. current carrying capacity: 80 A

MPB 18/1-57 - Wiring bridge

2809238

https://www.phoenixcontact.com/in/products/2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

125 Max. current carrying capacity: 125 A



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MPB 18/1-12 - Wiring bridge

2748593

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

MPB 18/1-9 - Wiring bridge

2748580

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.



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MPB 18/1-8 - Wiring bridge

2748577

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

MPB 18/1-6 - Wiring bridge

2748564

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.



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MPB 18/1-4 - Wiring bridge

2809225

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

MPB 18/1-3 - Wiring bridge

2809212

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.



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MPB 18/1-2 - Wiring bridge

2809209

https://www.phoenixcontact.com/in/products/2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

10 Max. current carrying capacity: 125 A

MPB 18/3- D - Wiring bridge end cover

2809322

https://www.phoenixcontact.com/in/products/2809322



End cover for lateral connection of wiring bridges, 3-phase



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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: latching, for terminal block width: 18 mm, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm

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

2749576

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



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: latching, for terminal block width: 18 mm, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm



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ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

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

B-STIFT - Marker pen

1051993

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



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



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CUTFOX-FBS - Front cutter

1212124

https://www.phoenixcontact.com/in/products/1212124



Cutting tool, for separating individual jumper bars from FBS \dots plug-in bridges and EB \dots insertion bridges

CUTFOX 25 VDE - Cable-cutting tool

1212127

https://www.phoenixcontact.com/in/products/1212127



Cable cutter, precision blade with macro-notching, for copper and aluminum up to 70 mm^2 , VDE 1000 V AC/ 1500 V DC tested



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SZK PZ2 VDE - Screwdriver

1206463

https://www.phoenixcontact.com/in/products/1206463



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

F-MS 12 ST - Type 2 surge protection plug

2817990

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Surge protection plug type 2, with N-PE total current spark gap for base element.

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