

https://www.phoenixcontact.com/us/products/2817987



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 arrester type 2, consisting of base element 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	2817987
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	C06
Product Key	CL1321
Catalog Page	Page 55 (C-4-2017)
GTIN	4017918163662
Weight per Piece (including packing)	128.7 g
Weight per Piece (excluding packing)	106.1 g
Customs tariff number	85363030
Country of origin	DE



https://www.phoenixcontact.com/us/products/2817987



Technical Data

Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	ТТ
Туре	DIN rail module, two-section, divisible
Product type	Surge arrester
Number of positions	1
Surge protection fault message	optical
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f _N 50 Hz (60 Hz)
--

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 solid	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

Dimensions

Dimensional drawing	89.8
Width	17.6 mm
Height	89.8 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications



https://www.phoenixcontact.com/us/products/2817987



Color	jet 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) μs	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Follow current interrupt rating I _{fi}	100 A
Voltage protection level U _p	≤ 1.5 kV
Residual voltage U _{res}	≤ 0.4 kV (at I _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
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

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 (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)



https://www.phoenixcontact.com/us/products/2817987



Approval data

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 connection data

Tightening torque	30 lb _f -in.
Conductor cross section AWG	14 2

Standards and regulations

Standards/specifications	IEC 61643-11
Standards/specifications	EN 61643-11

Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

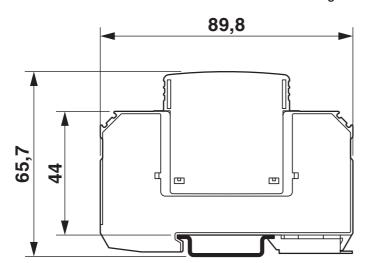
2817987

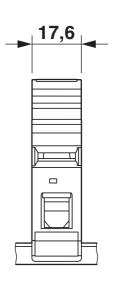
https://www.phoenixcontact.com/us/products/2817987



Drawings

Dimensional drawing







https://www.phoenixcontact.com/us/products/2817987



Circuit diagram





https://www.phoenixcontact.com/us/products/2817987



Approvals



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

\sim	^	
١.	١.	

Approval ID: NTR-AT 1947-A				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
			-	-



KEMA-KEUR

Approval ID: 71-113273 REV.1

-	

DNV GL

Approval ID: TAE000041N	М			
	Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
			-	-



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-16

cULus Recognized



https://www.phoenixcontact.com/us/products/2817987



Classifications

ECLASS

_			
	ECLASS-9.0	27130805	
	ECLASS-10.0.1	27130805	
	ECLASS-11.0	27130805	
	ECLASS-12.0	27171202	
ETIM			
	ETIM 8.0	EC000941	
UN	ISPSC		

UN

UNSPSC 21.0	39121600
-------------	----------



https://www.phoenixcontact.com/us/products/2817987



Environmental Product Compliance

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



https://www.phoenixcontact.com/us/products/2817987



Accessories



Note: Applying some accessories below might limit this product.

Wiring bridge

Wiring bridge - MPB 18/1-10/1.0.0 - 2830443

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



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

Wiring bridge

Wiring bridge - MPB 18/4- 8 - 2809283

https://www.phoenixcontact.com/us/products/2809283



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

1 Max. current carrying capacity: 80 A



https://www.phoenixcontact.com/us/products/2817987



Wiring bridge

Wiring bridge - MPB 18/3- 6 - 2809241 https://www.phoenixcontact.com/us/products/2809241

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



1 Max. current carrying capacity: 80 A

Wiring bridge

Wiring bridge - MPB 18/1-57 - 2809238

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



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

125 A Max. current carrying capacity: 125 A



https://www.phoenixcontact.com/us/products/2817987



Wiring bridge

Wiring bridge - MPB 18/1-12 - 2748593 https://www.phoenixcontact.com/us/products/2748593



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

125 A Max. current carrying capacity: 125 A

Wiring bridge

Wiring bridge - MPB 18/1- 9 - 2748580

https://www.phoenixcontact.com/us/products/2748580



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

Max. current carrying capacity: 125 A



https://www.phoenixcontact.com/us/products/2817987



Wiring bridge

Wiring bridge - MPB 18/1- 8 - 2748577 https://www.phoenixcontact.com/us/products/2748577



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

125 A Max. current carrying capacity: 125 A

Wiring bridge

Wiring bridge - MPB 18/1- 6 - 2748564

https://www.phoenixcontact.com/us/products/2748564



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

125 A Max. current carrying capacity: 125 A



https://www.phoenixcontact.com/us/products/2817987



Wiring bridge

Wiring bridge - MPB 18/1- 4 - 2809225 https://www.phoenixcontact.com/us/products/2809225



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

1 Max. current carrying capacity: 125 A

Wiring bridge

Wiring bridge - MPB 18/1- 3 - 2809212

https://www.phoenixcontact.com/us/products/2809212



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

125 A Max. current carrying capacity: 125 A

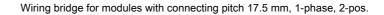


https://www.phoenixcontact.com/us/products/2817987



Wiring bridge

Wiring bridge - MPB 18/1- 2 - 2809209 https://www.phoenixcontact.com/us/products/2809209





125 A Max. current carrying capacity: 125 A

Wiring bridge end cover

Wiring bridge end cover - MPB 18/3- D - 2809322 https://www.phoenixcontact.com/us/products/2809322

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





https://www.phoenixcontact.com/us/products/2817987



Marker pen

Marker pen - B-STIFT - 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

Cable-cutting tool

Cable-cutting tool - CUTFOX 50 - 1206641 https://www.phoenixcontact.com/us/products/1206641







https://www.phoenixcontact.com/us/products/2817987



Marker for terminal blocks

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589 https://www.phoenixcontact.com/us/products/2749589



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

Marker for terminal blocks

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



https://www.phoenixcontact.com/us/products/2817987



Zack marker strip

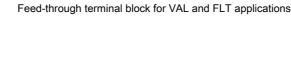
Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128 https://www.phoenixcontact.com/us/products/2809128



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

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880 https://www.phoenixcontact.com/us/products/2749880







https://www.phoenixcontact.com/us/products/2817987



Type 2 surge protection plug

Type 2 surge protection plug - F-MS 12 ST - 2817990 https://www.phoenixcontact.com/us/products/2817990



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

Phoenix Contact 2022 © - 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