

2817741

https://www.phoenixcontact.com/us/products/2817741

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Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel



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



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Commercial Data

Item number	2817741
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	C06
Product Key	CL1321
Catalog Page	Page 66 (C-4-2019)
GTIN	4017918148164
Weight per Piece (including packing)	72.52 g
Weight per Piece (excluding packing)	66.5 g
Customs tariff number	85366990
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

IEC test classification	II
	T2
EN type	T2
Туре	Base element, DIN rail mounting
Product type	Base element
Number of positions	1
Surge protection fault message	none
Insulation characteristics	
Overvoltage category	III

Electrical properties

Pollution degree

Nominal frequency f _N	50 Hz (60 Hz)

2

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



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Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications

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

Mechanical properties

Mechanical data

Open side panel	No
opon dido pandi	140

Protective circuit

Direction of action	1L-N/PE
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	600 V AC
Rated load current I _L	80 A
Short-circuit current rating I _{SCCR}	25 kA
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	125 A (gG)

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)

Approval data

UL specifications

Nominal voltage	690 V AC
SPD Type	4CA
UL connection data	
UL connection data Tightening torque	30 lb _E in.

Standards and regulations



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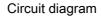
Standards/specifications	IEC 61643-11
Standards/specifications	EN 61643-11
Mounting	
meaning	
Mounting type	DIN rail: 35 mm



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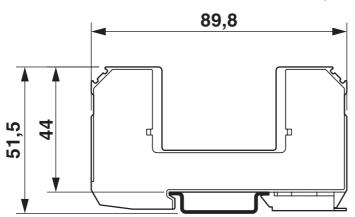
Drawings

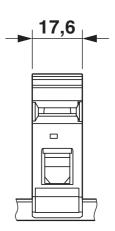






Dimensional drawing







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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: EAC-Zulassung

CCA

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

DNV GL

Approval ID: TAE000041	M			
	Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
			-	-



EAC

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



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-15

cULus Recognized



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Classifications

ECLASS

ECLASS-9.0	27130803
ECLASS-10.0.1	27130803
ECLASS-11.0	27130803
TIM	

ETIM

ETIM 8.0	EC000472

UNSPSC

UNSPSC 21.0	
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Environmental Product Compliance

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



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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

Max. current carrying capacity: 125 A

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

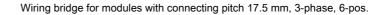


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Wiring bridge

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





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



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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.



10 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



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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.

10 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.

Max. current carrying capacity: 125 A



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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.

10 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.

Max. current carrying capacity: 125 A



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Wiring bridge

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



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



10 Max. current carrying capacity: 125 A

Wiring bridge

Wiring bridge - MPB 18/1- 2 - 2809209

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



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



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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.

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.



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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.

Wiring bridge

Wiring bridge - MPB 18/1- 7 BU - 2856278 https://www.phoenixcontact.com/us/products/2856278



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 7-pos., color: Blue



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Wiring bridge

Wiring bridge - MPB 18/1- 8 BU - 2858470 https://www.phoenixcontact.com/us/products/2858470



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

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.



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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.

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.



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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.

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.





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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.

Feed-through terminal block

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



Feed-through terminal block for VAL and FLT applications



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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

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: snap in, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



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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: snap into tall marker groove, 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: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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