

2838898

https://www.phoenixcontact.com/in/products/2838898

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Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Version for 3-phase power supply with separate installation of N and PE conductors.

### 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	2838898
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CL1
Product Key	CL1321
Catalog Page	Page 66 (C-4-2019)
GTIN	4017918171933
Weight per Piece (including packing)	256.7 g
Weight per Piece (excluding packing)	232.6 g
Customs tariff number	85363030
Country of origin	IN



2838898

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### **Technical Data**

### Product properties

IEC test classification	II	
	T2	
EN type	T2	
Туре	Base element, DIN rail mounting	
Product type	Base element	
Product family	VALVETRAB MS	
Number of positions	4	
Surge protection fault message	Remote indication contact	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	2	

### Electrical properties

Nominal frequency f <sub>N</sub>	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

1 A DC

	30 V DC
Operating current	5 mA AC 750 mA AC

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	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
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²



2838898

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Conductor cross section AWG	28 16	
Dimensions		
Dimensional drawing	99.7	
Width	71 mm	
Height	98.7 mm	
Depth	65.7 mm (incl. DIN rail 7.5 mm)	
Horizontal pitch	4 Div.	
Material specifications		
Color	jet black RAL 9005	
Flammability rating according to UL 94	V-0	
CTI value of material	600	
Insulating material	PBT	
Material group	I	
Housing material	PBT	
Mechanical properties  Mechanical data		
Open side panel	No	
Protective circuit		
Direction of action	3L-N & N-PE	
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)	
Maximum continuous voltage U <sub>C</sub>	500 V AC	
Rated load current I <sub>L</sub>	80 A	
Short-circuit current rating I <sub>SCCR</sub>	25 kA	
Max. backup fuse with V-type through wiring	80 A (gG)	
Max. backup fuse with branch wiring	125 A (gG)	
nvironmental 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)



2838898

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### Approvals

UL specifications		
Nominal voltage	690 V AC	
SPD Type	4CA	
UL indicator/remote signaling		
AC operating voltage	125 V AC	
AC operating current	1 A AC	
UL connection data		
Tightening torque	30 lb <sub>f</sub> -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	

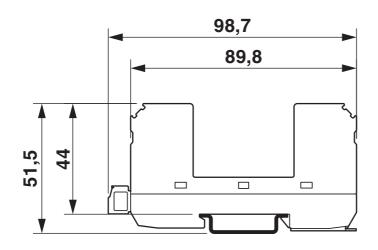


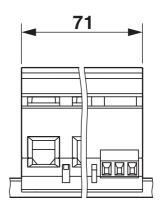
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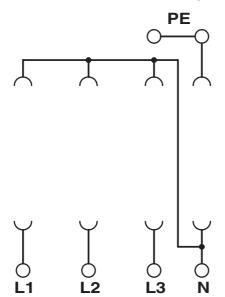
### Drawings

Dimensional drawing





Circuit diagram







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



KEMA-KEUR

Approval ID: 71-113273 REV.1



**DNV GL** 

Approval ID: TAE000041M



**CSA** 

Approval ID: 13631



ÖVE

Approval ID: 18583-001-16



ÖVE

Approval ID: 18583-001-17



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### Classifications

ECLASS			
	ECLASS-11.0	27130803	
ETIM			
	ETIM 8.0	EC000472	
UNSPSC			
	UNSPSC 21.0	39121600	



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### **Environmental Product Compliance**

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



2838898

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#### Accessories

MPB 18/1-10/1.0.0 - Wiring bridge

2830443

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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.



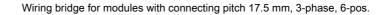
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MPB 18/3-6 - Wiring bridge

2809241

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### MPB 18/1-57 - Wiring bridge

2809238

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



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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

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

#### 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

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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/in/products/1051993



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

### DK-BIC-35 - Feed-through terminal block

2749880

https://www.phoenixcontact.com/in/products/2749880



Feed-through terminal block for VAL and FLT applications



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MPB 18/4-8 - Wiring bridge

2809283

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



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

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