

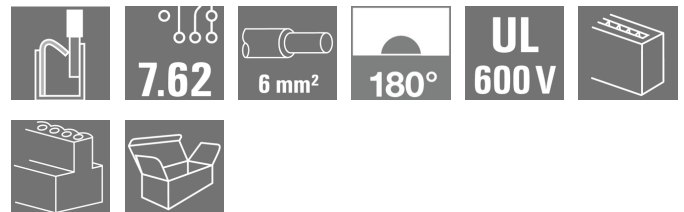
BVDF 7.62HP/02/180SN BK BX
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image


Bus connector with two connections per pole with the time-saving 6mm² PUSH IN connection system.

- The extremely short cross-connection allows you to safely loop through bus currents.
- PUSH IN connection: Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2, 180°, PUSH IN, Clamping range, max. : 10 mm ² , Box
Order No.	2719370000
Type	BVDF 7.62HP/02/180SN BK BX
GTIN (EAN)	4050118780932
Qty.	57 pc(s).
Product data	IEC: 600 V / 46 A / 0.5 - 10 mm ² UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Box

Creation date July 16, 2021 11:07:30 AM CEST

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Technical data

Dimensions and weights

Depth	42.55 mm	Depth (inches)	1.675 inch
Height	35.05 mm	Height (inches)	1.38 inch
Width	18.78 mm	Width (inches)	0.739 inch
Net weight	20.911 g		

System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP		
Type of connection	Field connection		
Wire connection method	PUSH IN		
Pitch in mm (P)	7.62 mm		
Pitch in inches (P)	0.3 inch		
Conductor outlet direction	180°		
Number of poles	2		
L1 in mm	7.62 mm		
L1 in inches	0.3 inch		
Number of rows	2		
Pin series quantity	1		
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		
Touch-safe protection acc. to DIN VDE 0470	IP 20		
Volume resistance	4.50 mΩ		
Can be coded	Yes		
Stripping length	12 mm		
Stripping length tolerance	min.	-1 mm	
	max.	1 mm	
Screwdriver blade	0.6 x 3.5		
Plugging force/pole, max.	12 N		
Pulling force/pole, max.	12 N		

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	1...3 µm Ni / 4...10 µm Sn	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	0.5 mm ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 8
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, min. H07V-R	1.5 mm ²
Stranded, max. H07V-R	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	10 mm ²

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Technical dataw. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm²
min.w. wire end ferrule, DIN 46228 pt 1, 0.5 mm²
min.w. wire end ferrule, DIN 46228 pt 1, 6 mm²
max.

Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0.5/12 OR
	Cross-section for conductor connection	nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0.75/18 W
	Cross-section for conductor connection	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1.0/18 GE
	Cross-section for conductor connection	nominal	1.5 mm ²
		wire end ferrule	Stripping length
			nominal 12 mm
			Recommended wire-end ferrule
			H1.5/12
		Stripping length	nominal 15 mm
			Recommended wire-end ferrule
			H1.5/18D SW
	Cross-section for conductor connection	nominal	2.5 mm ²
		wire end ferrule	Stripping length
			nominal 12 mm
			Recommended wire-end ferrule
			H2.5/12
		Stripping length	nominal 14 mm
			Recommended wire-end ferrule
			H2.5/19D BL
	Cross-section for conductor connection	nominal	4 mm ²
		wire end ferrule	Stripping length
			nominal 12 mm
			Recommended wire-end ferrule
			H4.0/12
		Stripping length	nominal 14 mm
			Recommended wire-end ferrule
			H4.0/20D GR
	Cross-section for conductor connection	nominal	6 mm ²
		wire end ferrule	Stripping length
			nominal 12 mm
			Recommended wire-end ferrule
			H6.0/12
		Stripping length	nominal 14 mm
			Recommended wire-end ferrule
			H6.0/20 SW
	Cross-section for conductor connection	nominal	10 mm ²

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

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Technical data

Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles
(Tu=20°C)

41 A

Rated current, max. number of poles
(Tu=40°C)

37.5 A

Rated voltage for surge voltage class /
pollution degree III/2

600 V

Rated impulse voltage for surge voltage
class/ pollution degree II/2

4 kV

Rated impulse voltage for surge voltage
class/ contamination degree III/3

6 kV

Clearance, min.

10.36 mm

Rated current, min. number of poles
(Tu=20°C)

46 A

Rated current, min. number of poles
(Tu=40°C)

38 A

Rated voltage for surge voltage class /
pollution degree II/2

600 V

Rated voltage for surge voltage class /
pollution degree III/3

600 V

Rated impulse voltage for surge voltage
class/ pollution degree III/2

6 kV

Short-time withstand current resistance

3 x 1s with 400 A

Creepage distance, min.

11.03 mm

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)

600 V

Rated voltage (Use group D / UL 1059)

600 V

Rated current (Use group C / UL 1059)

35 A

Wire cross-section, AWG, min.

AWG 24

Reference to approval values

Specifications are
maximum values, details -
see approval certificate.

Rated voltage (Use group C / UL 1059)

600 V

Rated current (Use group B / UL 1059)

35 A

Rated current (Use group D / UL 1059)

35 A

Wire cross-section, AWG, max.

AWG 8

Packing

Packaging

Box

VPE length

338 mm

VPE width

130 mm

VPE height

54 mm

Classifications

ETIM 6.0

EC002638

ETIM 8.0

EC002638

ECLASS 9.1

27-44-03-09

ECLASS 11.0

27-46-02-02

ETIM 7.0

EC002638

ECLASS 9.0

27-44-03-09

ECLASS 10.0

27-44-03-09

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www.weidmueller.com**Technical data****Important note**

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	• Additional colours on request • Wire end ferrule with plastic collar to DIN 46228/4 • Wire end ferrule without plastic collar to DIN 46228/1 • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



UL File Number Search E60693

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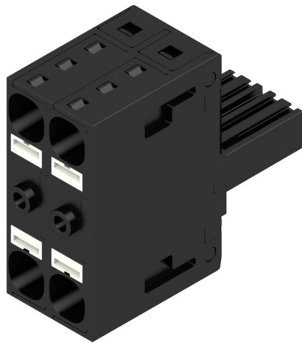
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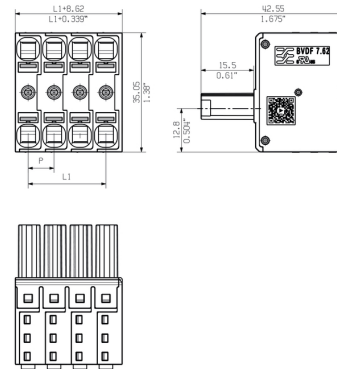
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Drawings

Product image



Dimensional drawing



Similar to illustration

Derating curve

