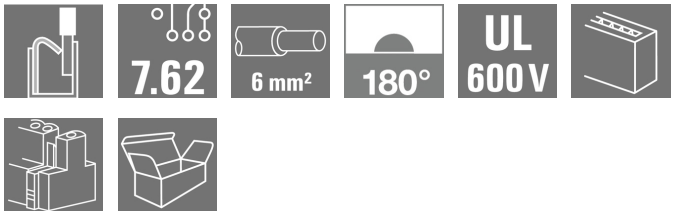
BVDF 7.62HP/02/180MF2 SN BK BX

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 with actuator, Tension-clamp connection, Clamping range, max. : 10 mm², Box
Order No.	2720550000
Type	BVDF 7.62HP/02/180MF2 SN BK BX
GTIN (EAN)	4050118815986
Qty.	39 pc(s).
Product data	IEC: 600 V / 46 A / 0.5 - 10 mm² UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Box

Creation date September 14, 2021 3:58:49 AM CEST

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Technical data

Dimensions and weights

Depth	47.7 mm	Depth (inches)	1.878 inch
Height	35.05 mm	Height (inches)	1.38 inch
Width	26.4 mm	Width (inches)	1.039 inch
Net weight	22.827 g		

System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	
Type of connection	Field connection	
Wire connection method	PUSH IN with actuator, Tension-clamp connection	
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	15.24 mm	
L1 in inches	0.6 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 mm²
Clamping range, max.	10 mm²
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 8
Solid, min. H05(07) V-U	0.5 mm²
Solid, max. H05(07) V-U	10 mm²
Stranded, min. H07V-R	1.5 mm²
Stranded, max. H07V-R	6 mm²
Flexible, min. H05(07) V-K	0.5 mm²
Flexible, max. H05(07) V-K	10 mm²

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w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²		
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm²		
Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0,5/12 OR
	Cross-section for conductor connection	nominal	0.75 mm²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-end ferrule	H0,75/18 W
	Cross-section for conductor connection	nominal	1 mm²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire-end ferrule	H1,0/18 GE
	Cross-section for conductor connection	nominal	1.5 mm²
	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 mm²
	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 mm²
	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 mm²
	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 mm²
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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Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	46 A
Rated current, max. number of poles (Tu=20°C)	41 A	Rated current, min. number of poles (Tu=40°C)	38 A
Rated current, max. number of poles (Tu=40°C)	37.5 A	Rated voltage for surge voltage class / pollution degree II/2	600 V
Rated voltage for surge voltage class / pollution degree III/2	600 V	Rated voltage for surge voltage class / pollution degree III/3	1,000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 400 A
Clearance, min.	10.36 mm	Creepage distance, min.	11.03 mm

Rated data acc. to UL 1059

Institute (cURus)	c UL us	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated voltage (Use group E / UL 1059)	1,000 V
Rated current (Use group B / UL 1059)	35 A	Rated current (Use group C / UL 1059)	35 A
Rated current (Use group D / UL 1059)	35 A	Rated current (Use group E / UL 1059)	35 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	338 mm
VPE width	130 mm	VPE height	54 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02		

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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

Downloads

Engineering Data	STEP
Catalogues	Catalogues in PDF-format

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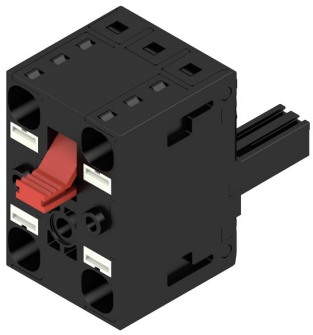
Drawings

Product image



Derating curve

