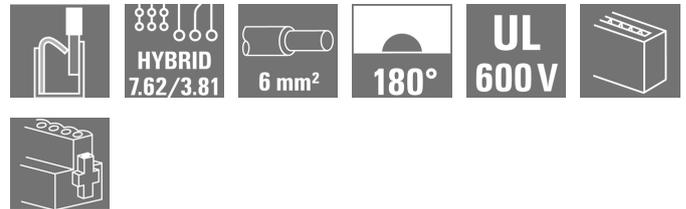


**BVFL 7.62HP/02/180MSF2 BCF/06R SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Product image**


180° female plug with energy and signal contacts in PUSH IN wire connection in 7.62 pitch. Fulfils the IEC 61800-5-1 requirement and for the energy contact UL 1059 ClassC 600 V. With adjustable, self-locking pusher for opening the contact point.

The self-locking middle flange with automatic interlock reduces the space requirements by one pitch width in comparison with conventional solutions. Optionally also available with additional mounting screw.

**General ordering data**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2, 180°, PUSH IN, Clamping range, max. : 6 mm <sup>2</sup> , Box
Order No.	<a href="#">2629020000</a>
Type	BVFL 7.62HP/02/180MSF2 BCF/06R SN BK BX
GTIN (EAN)	4050118633030
Qty.	54 pc(s).
Product data	IEC: 1000 V / 38 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Box

Creation date April 16, 2021 5:28:08 AM CEST

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**Technical data**
**Dimensions and weights**

Net weight	20.85 g
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**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	15.24 mm
L1 in inches	0.6 inch	Pin series quantity	1
Rated cross-section	6 mm <sup>2</sup>	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
Tightening torque for screw flange, min.	0.2 Nm	Tightening torque for screw flange, max.	0.3 Nm
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

**Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	6...8 μm Sn glossy	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	125 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	125 °C		

**Conductors suitable for connection**

Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	6 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm <sup>2</sup> min.	
w. plastic collar ferrule, DIN 46228 pt 4, 6 mm <sup>2</sup> max.	
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm <sup>2</sup> min.	
w. wire end ferrule, DIN 46228 pt 1, 6 mm <sup>2</sup> max.	

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**Technical data**

Clampable conductor	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm <sup>2</sup>
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	<a href="#">H0.5/18 OR</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	<a href="#">H1.0/18 GE</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	1.5 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 15 mm
		Recommended wire-end ferrule	<a href="#">H1.5/18D SW</a>
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H1.5/12</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	<a href="#">H0.75/18 W</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	2.5 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	<a href="#">H2.5/19D BL</a>
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H2.5/12</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	4 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H4.0/12</a>
		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	<a href="#">H4.0/20D GR</a>
Cross-section for conductor connection	Type	fine-wired	
	nominal	6 mm <sup>2</sup>	
wire end ferrule		Stripping length	nominal 14 mm
		Recommended wire-end ferrule	<a href="#">H6.0/20 SW</a>
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H6.0/12</a>

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, min. number of poles (Tu=20°C)	38 A
Rated current, max. number of poles (Tu=20°C)	38 A	Rated current, min. number of poles (Tu=40°C)	34 A
Rated current, max. number of poles (Tu=40°C)	34 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	1,000 V	Rated voltage for surge voltage class / pollution degree III/3	800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand current resistance	3 x 1s with 420 A

**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 C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 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)	5 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

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**Technical data****Technical data - hybrid**

stripping length (Signal)	8 mm	Pitch in mm (Signal)	3.81 mm
Pitch in inches (Signal)	0.15 inch	Number of poles (Signal)	6
L2 in mm	7.62 mm	L2 in inch	0.3 inch
Number of rows (Signal)	2	Contact material (Signal)	CuMg
Contact surface (Signal)	tinned	Layer structure of the plug contact (Signal)	1-3 μ Ni / 4-8 μ Sn
Rated voltage for overvoltage class/pollution severity level II/2 (Signal)	400 V	Rated voltage for overvoltage class/pollution severity level III/2 (Signal)	320 V
Rated voltage for overvoltage class/pollution severity level III/3 (Signal)	200 V	Rated impulse voltage for overvoltage class/pollution severity level II/2 (Signal)	4 kV
Rated impulse voltage for overvoltage class/pollution severity level III/2 (Signal)	4 kV	Rated impulse voltage for overvoltage class/pollution severity level III/3 (Signal)	4 kV
Short-time withstand current resistance (Signal)	3 x 1s with 80 A	Rated voltage (Use group B / CSA) (Signal)	300 V
Rated voltage (Use group C / CSA) (Signal)	50 V	Rated voltage (Use group D / CSA) (Signal)	300 V
Rated current (Use group B / CSA) (Signal)	9 A	Rated current (Use group C / CSA) (Signal)	9 A
Rated current (Use group D / CSA) (Signal)	9 A	Wire connection cross-section AWG (Signal)	AWG 24...AWG 16
Rated voltage (Use group B / UL 1059] (Signal)	300 V	Rated voltage (Use group C / UL 1059] (Signal)	50 V
Rated voltage (Use group D / UL 1059] (Signal)	300 V	Rated current (Use group B / UL 1059] (Signal)	5 A
Rated current (Use group C / UL 1059] (Signal)	5 A	Rated current (Use group D / UL 1059] (Signal)	5 A
Connector cross-section (Signal)	AWG 26...AWG 16		

**Conductors that can be connected - Hybrid**

Clamping range, rated connection (Power)	0.5... 10 mm <sup>2</sup>	Clamping range, rated connection (Signal)	0.2... 1.5 mm <sup>2</sup>
Connector cross-section (Power)	AWG 24...AWG 8	Connector cross-section AWG (Signal)	AWG 26...AWG 16
solid, H05(07) V-U (Power)	0.5... 10 mm <sup>2</sup>	solid, H05(07) V-U (Signal)	0.14... 1.5 mm <sup>2</sup>
flexible, H05(07) V-K (Power)	0.5... 6 mm <sup>2</sup>	flexible, H05(07) V-K (Signal)	0.14... 1.5 mm <sup>2</sup>
with wire-end ferrule with collar (Power)	0.5... 6 mm <sup>2</sup>	with wire-end ferrule with collar, DIN 46 228/4 (Signal)	0.25... 1.5 mm <sup>2</sup>
with wire-end ferrule according to DIN 46 228/1 (Power)	0.5... 6 mm <sup>2</sup>	with wire-end ferrule according to DIN 46 228/1 (Signal)	0.25... 1.5 mm <sup>2</sup>

**Classifications**

ETIM 6.0	EC002638	ETIM 7.0	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	<ul style="list-style-type: none"> <li>• Technical specifications refer to the power contacts</li> <li>• Technical data of signal contacts: 50V / 5A, stripping length 8mm</li> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• 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.</li> <li>• Additional pole combinations on request</li> <li>• MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul>

**Approvals**

Approvals



UL File Number Search E60693

**Downloads**

Product Change Notification	<a href="#">EN - Change of isolation material</a> <a href="#">DE - Werkstoffänderung Pusher</a>
User Documentation	<a href="#">Operating Instruction BVFL hybrid</a> <a href="#">QR-Code product handling video</a>
Brochure/Catalogue	<a href="#">Catalogues in PDF-format</a>

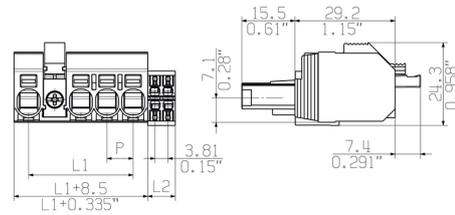
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**Drawings**

**Dimensional drawing**



**Graph**

