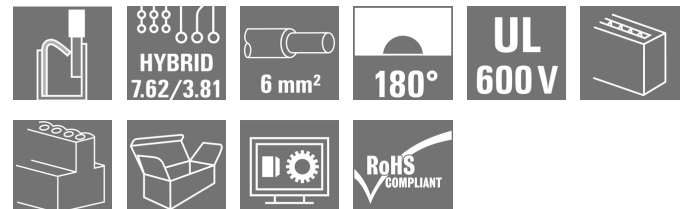


**OMNIMATE Power - series BV/SV 7.62HP  
 BVF 7.62HP/05/180 BCF/08R SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



Combined 180° female plug with power and signal contacts in PUSH IN connection technology incl. self-locking middle flange interlock, optionally with pluggable shield connection in 7.62 pitch.

Enables simultaneous connection of power, signals and (optional) shielding. Ideal for connecting servo and asynchronous drives.

Meets the requirements of IEC 61800-5-1 and UL 1059 class C 600 V for the power contacts. The self-locking middle flange reduces space requirements by one pitch width in comparison with conventional solutions.

The pluggable shield connection has a wide contact area on the device housing and does not have to be separately bolted. Optional on request: without shield connection, without flange fastening or middle flange with additional screw mount.

**General ordering data**

Type	BVF 7.62HP/05/180 BCF/08R SN BK BX
Order No.	<a href="#">1156480000</a>
Version	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 5, 180°, PUSH IN, Clamping range, max.: 10 mm², Box
GTIN (EAN)	4032248943272
Qty.	25 pc(s).
Product data	IEC: 1000 V / 38 A / 0.5 - 10 mm² UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Box

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

Net weight 28 g

**System parameters**

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	PUSH IN
Wire connection method	PUSH IN	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
No. of poles	5	L1 in mm	30.48 mm
L1 in inches	1.2 inch	Number of rows	1
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	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	push-in force/pole	12 N
Withdrawal force per pole	7 N	Packaging	Box

**Material data**

Insulating material	PA GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 500	Insulation resistance	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Layer structure of plug contact	6-8 μm Sn
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	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.	10 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>	Solid, max. H05(07) V-U	10 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, min.	0.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	10 mm <sup>2</sup>

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	38 A
Rated current, max. no. of poles (Tu=20°C)	38 A	Rated current, min. no. of poles (Tu=40°C)	34 A
Rated current, max. no. 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
Clearance, min.	10.4 mm	Creepage distance, min.	12.7 mm

Creation date July 2, 2018 10:38:31 AM CEST

Catalogue status 29.06.2018 / We reserve the right to make technical changes.

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**Technical data****Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

200039-1121690

Rated voltage (Use group B)	600 V
Rated voltage (use group D)	600 V
Rated current (use group C)	33 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)	600 V
Rated current (use group B)	33 A
Rated current (use group D)	5 A
Wire cross-section, AWG, max.	AWG 8

**Rated data acc. to UL 1059**

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (use group B)	600 V
Rated voltage (use group D)	600 V
Rated current (use group C)	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)	600 V
Rated current (use group B)	35 A
Rated current (use group D)	5 A
Wire cross-section, AWG, max.	AWG 8

**System specifications - Hybrid field | Technical data**

stripping length (Signal)	8 mm
Pitch in inches (Signal)	0.15 inch
L2 in inch	0.45 inch
Contact material (Signal)	CuMg
Rated voltage for overvoltage class/pollution severity level II/2 (Signal)	400 V
Rated voltage for overvoltage class/pollution severity level III/3 (Signal)	200 V
Rated impulse voltage for overvoltage class/pollution severity level III/2 (Signal)	4 kV
Short-time withstand current resistance (Signal)	3 x 1s with 80 A
Rated voltage (Use group C) (Signal)	50 V
Rated current (Use group B) (Signal)	9 A
Rated current (Use group D) (Signal)	9 A
Rated voltage (Use group B) (Signal)	300 V
Rated voltage (Use group D) (Signal)	300 V
Rated current (Use group C) (Signal)	5 A
Connector cross-section (Signal)	AWG 26...AWG 16

Pitch in mm (Signal)	3.81 mm
L2 in mm	11.43 mm
Number of rows (Signal)	2
Contact surface (Signal)	tinned
Rated voltage for overvoltage class/pollution severity level III/2 (Signal)	320 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/3 (Signal)	4 kV
Rated voltage (Use group B) (Signal)	300 V
Rated voltage (Use group D) (Signal)	300 V
Rated current (Use group C) (Signal)	9 A
Wire connection cross-section AWG (Signal)	AWG 26...AWG 16
Rated voltage (Use group C) (Signal)	50 V
Rated current (Use group B) (Signal)	5 A
Rated current (Use group D) (Signal)	5 A

**Classifications**

ETIM 4.0	EC002637	ETIM 5.0	EC002637
ETIM 6.0	EC002637	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02	eClass 8.1	27-44-04-02
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02

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**Technical data**
**Notes**

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> </ul>
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.

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">CAT 2 PORTFOLIOGUIDE EN</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL_INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">EPLAN_WSCAD</a>
Motion controllers white paper	<a href="#">Download Whitepaper</a>
User Documentation	<a href="#">Operating Instruction BVF</a>
White Paper UL 600 V	<a href="#">Download Whitepaper</a>
White Paper wire connection	<a href="#">Download Whitepaper</a>

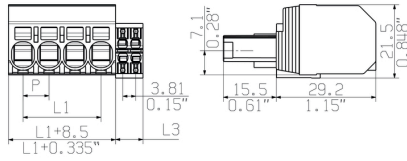
**Data sheet**

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**Drawings**

**Dimensional drawing**



**Graph**

