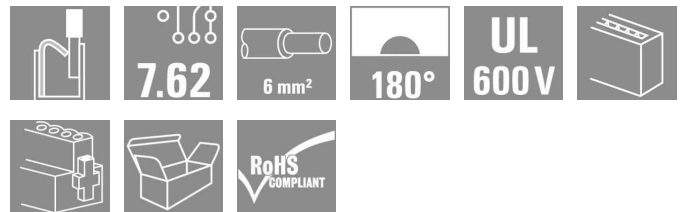


## OMNIMATE Power - series BV/SV 7.62HP BVF 7.62HP/05/180MF4 SN BK BX

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



180° socket block in 7.62 pitch with PUSH IN connections for on-site wiring of 6-mm<sup>2</sup> wires. Fulfils the requirements of UL1059 600 V Class C and IEC 61800-5-1. Provides the ideal finger-safe solution for the power output.

The middle flange interlocks automatically and is optionally available with screw connection. It decreases the space required by one pitch width when compared to other standard solutions.

Variants: without flange, with outer flange, with middle flange and snap-on, and optional extra screw attachment

- 0.2 - 10.0 mm<sup>2</sup> (IEC) / 24 - 12 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 38 A (IEC) / 35 A (UL)

### General ordering data

Type	BVF 7.62HP/05/180MF4 SN BK BX
Order No.	<a href="#">1060610000</a>
Version	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 5, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 10 mm <sup>2</sup> , Box
GTIN (EAN)	4032248809936
Qty.	30 pc(s).
Product data	IEC: 1000 V / 41 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Box

Erstellungs-Datum December 17, 2013 9:27:12 AM CET

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## Technische Daten

### Dimensions and weights

Net weight 12.5 g

### System parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Wire connection method	PUSH IN spring connection
Conductor outlet direction	180°	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	No. of poles	5
Screwdriver blade	0.8 x 4.5	Screwdriver blade standard	DIN 5264
Stripping length	12 mm	L1 in mm	38.1 mm
L1 in inches	1.5 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

### Material data

Insulating material	PA GF	Colour	Black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
CTI	≥ 500	Contact material	Cu-Leg
Contact surface	tinned		


### Connectable conductors

Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, 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	10 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	1.5 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	6 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	1.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm <sup>2</sup>

### DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	41 A	Rated current, max. no. of poles (Tu=20°C)	41 A
Rated current, number of poles (Tu=40°C), min	41 A	Rated current, number of poles (Tu=40°C), max.	38 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		

### CSA rating data

Institute (CSA)		Rated voltage (Use group B)	600 V
Rated current (use group B)	35 A	Rated voltage (Use group C)	600 V
Rated current (use group C)	35 A	Rated voltage (use group D)	600 V
Rated current (use group D)	5 A	Wire cross-section, AWG, min.	AWG 24
Wire cross-section, AWG, max.	AWG 8		

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**Technische Daten**

**UL 1059 rating data**

Rated voltage (use group B)	600 V	Rated current (use group B)	35 A
Rated voltage (use group C)	600 V	Rated current (use group C)	35 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

**Classifications**

eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
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**Notes**

- Notes
- Additional colours on request
  - Rated current related to rated cross-section & min. No. of poles.
  - 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.
  - MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

**Approvals**

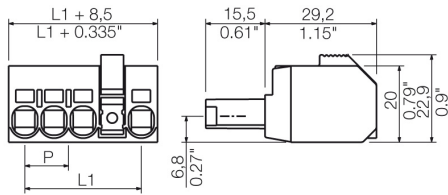


ROHS Conform

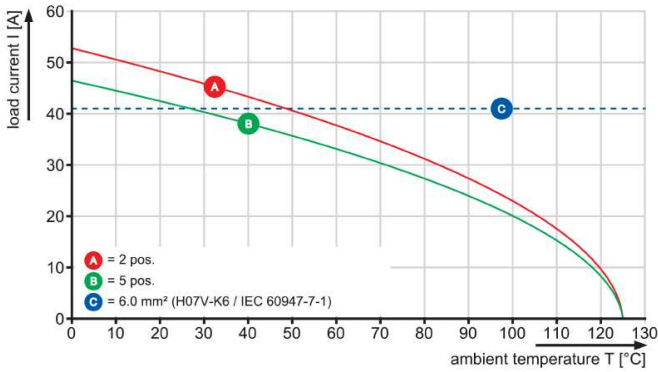
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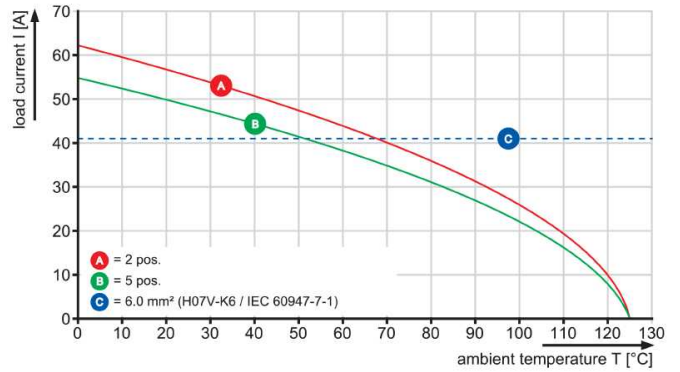
**Zeichnungen**



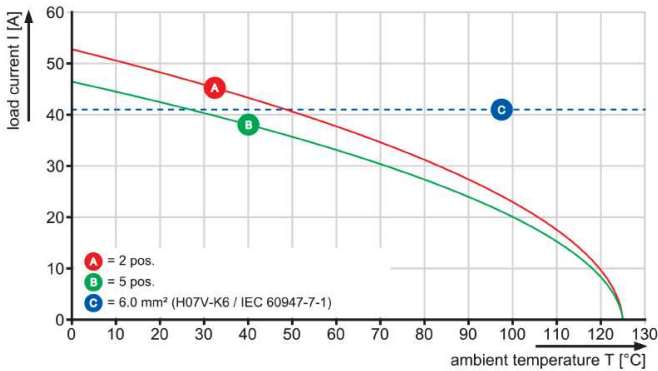
BVF 7.62HP/..180 - SV 7.62HP/..90



BVF 7.62HP/..180 - SVF 7.62HP/..180



BVF 7.62HP/..180 - SV 7.62HP/..270



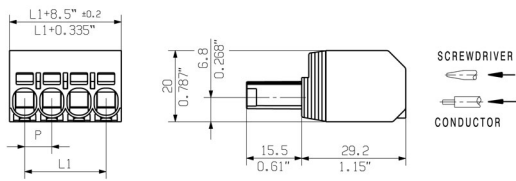
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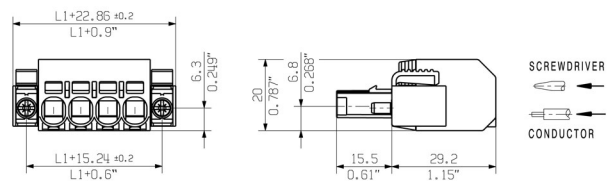
**Zeichnungen**

**Dimensioned drawing**

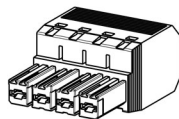
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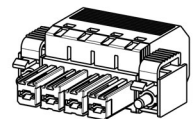
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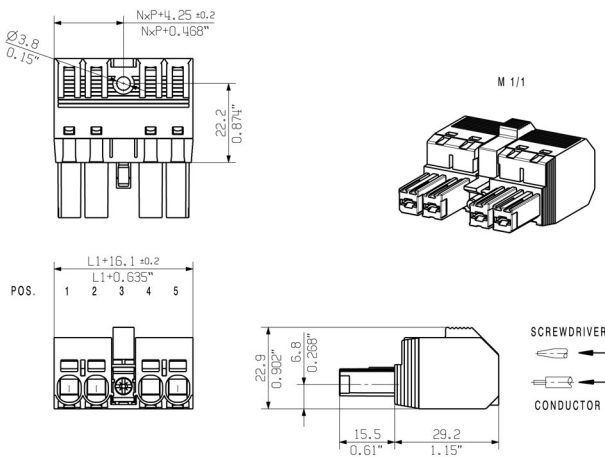
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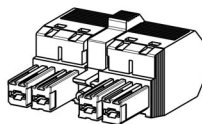
M 1/1



SHOWN: BVF 7.62HP/04/180MSF



M 1/1



Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermal and corrosive stress will be satisfied.

P=POL / POLES  
MF=MITTELFANSCH / MIDDLE FLANGE

6 MF 4	P	P	P	MF	P	P	P
5 MF 4	P	P	P	MF	P	P	P
5 MF 3	P	P	P	MF	P	P	P
4 MF 4	P	P	P	MF	P	P	
4 MF 3	P	P	P	MF	P	P	
3 MF 3	P	P	P	MF	P	P	
3 MF 2	P	P	P	MF	P	P	
2 MF 2	P	P	P	MF	P	P	
POS.	1	2	3	4	5	6	7

METRIC TOLERANCES:  
X = ±0.3  
XX = ±0.1  
XXX = ±0.05

ORDER NUMBERS  
SEE DRAWING 46101 SHEET 01

7	45,72	1,8
6	38,10	1,5
5	30,48	1,2
4	22,86	0,9
3	15,24	0,6
2	7,62	0,3
POLE NO OF POLES	L1 (mm)	L1 (Inch)