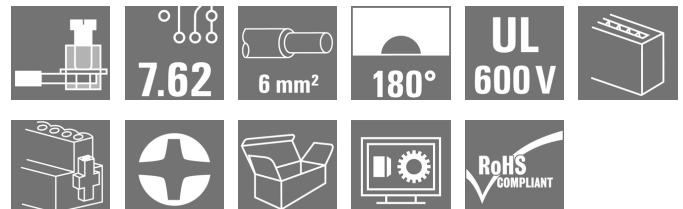


OMNIMATE Power - series BV/SV 7.62HP BVZ 7.62HP/05/180FC SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image



Similar to illustration

High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against faulty wiring, 4-point contact. Suitable for labelling.

General ordering data

Type	BVZ 7.62HP/05/180FC SN BK BX
Order No.	1929660000
Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 5, 180°, Clamping yoke connection, Clamping range, max. : 10 mm², Box
GTIN (EAN)	4032248578894
Qty.	50 pc(s).
Product data	IEC: 1000 V / 57 A / 0.2 - 10 mm² UL: 600 V / 40.5 A / AWG 24 - AWG 8
Packaging	Box

Creation date June 5, 2020 8:02:03 PM CEST

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Technical data

Dimensions and weights

Net weight	30.18 g
------------	---------

System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
Number 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 MQ
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, min.	0.5 Nm
Tightening torque, max.	0.6 Nm	Clamping screw	M 3
Screwdriver blade	0.6 x 3.5	Plugging cycles	25
Plugging force/pole, max.	16.5 N	Pulling force/pole, max.	11 N

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 A / 1 mm + 20 A / 2 mm
Contact base material	Copper alloy	Contact material	Copper alloy
Contact surface	tinned	Layer structure of plug contact	6...8 µm Sn glossy
Storage temperature, min.	-25 V DC (24,25 V DC +- 50 mV) potenzialfrei	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	Operating temperature, min.	-50 V DC (24,25 V DC +- 50 mV) potenzialfrei
Operating temperature, max.	125 V DC (24,25 V DC +- 50 mV) potenzialfrei	Temperature range, installation, min.	-25 V DC (24,25 V DC +- 50 mV) potenzialfrei
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.2 mm ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG, min.	AWG 22
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	10 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 6 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.25 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 6 mm ² max.	

Creation date June 5, 2020 8:02:03 PM CEST

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BVZ 7.62HP/05/180FC SN BK BX**

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Technical data

Plug gauge in accordance with EN 60999 a x b; ø

2.8 mm x 2.0 mm; 2.4 mm

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	0.5 mm ²	
	wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H0.5/18 OR	
	Cross-section for conductor connection	Type	fine-wired	
		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	Type	fine-wired	
		nominal	1.5 mm ²	
	wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	H1.5/18D SW	
		Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H1.5/12	
	Cross-section for conductor connection	Type	fine-wired	
		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	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H2.5/19D BL	
		Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H2.5/12	
	Cross-section for conductor connection	Type	fine-wired	
		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	Type	fine-wired	
		nominal	6 mm ²	
	wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H6.0/20 SW	
		Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H6.0/12	

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.

Max. clamping range 10 mm²

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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
($T_u=40^{\circ}\text{C}$)

41 A

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

1,000 V

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

6 kV

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

8 kV

Clearance, min.

10.2 mm

 Rated current, min. number of poles
($T_u=20^{\circ}\text{C}$)

57 A

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

8 kV

Short-time withstand current resistance

3 x 1s with 420 A

Creepage distance, min.

13.8 mm

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1534443

Rated voltage (Use group B / CSA)

600 V

Rated voltage (Use group D / CSA)

600 V

Rated current (Use group C / CSA)

40.5 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 / CSA)

600 V

Rated current (Use group B / CSA)

40.5 A

Rated current (Use group D / CSA)

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 / UL 1059)

600 V

Rated voltage (Use group D / UL 1059)

600 V

Rated current (Use group C / UL 1059)

40.5 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)

40.5 A

Rated current (Use group D / UL 1059)

5 A

Wire cross-section, AWG, max.

AWG 8

Packing

Packaging

Box

VPE length

85 mm

VPE width

145 mm

VPE height

335 mm

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

UNSPSC

30-21-18-10

OMNIMATE Power - series BV/SV 7.62HP BVZ 7.62HP/05/180FC SN BK BX

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Technical data

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.
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

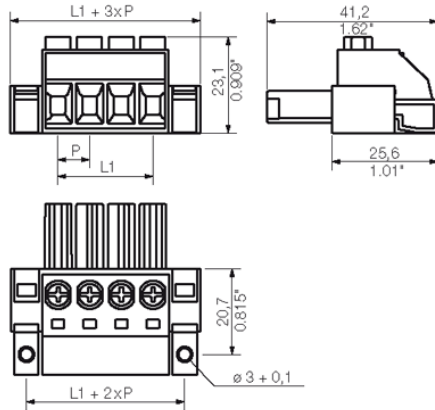
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL HEATING ELECTR EN FL APPL. INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
White paper power electronics connected correctly	Download Whitepaper
User Documentation	QR-Code product handling video
White paper UL 600 V	Download Whitepaper

OMNIMATE Power - series BV/SV 7.62HP BVZ 7.62HP/05/180FC SN BK BX

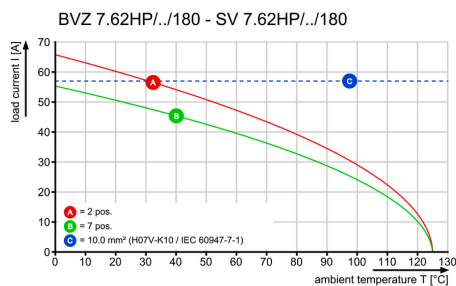
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Drawings

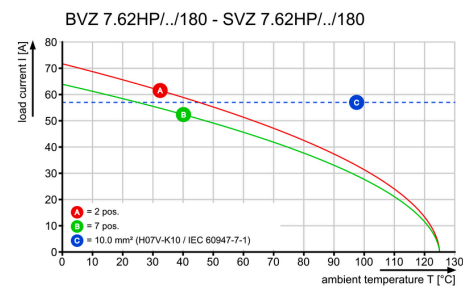
Dimensional drawing



Graph



Graph



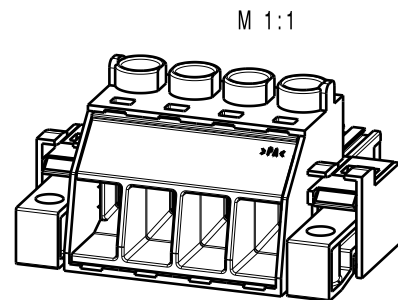
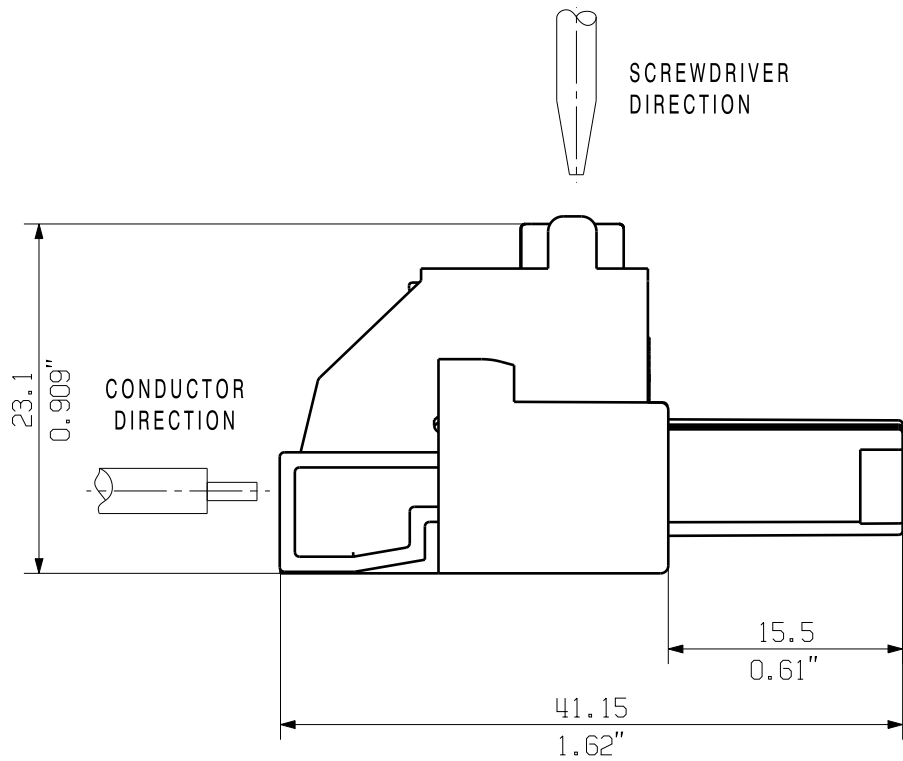
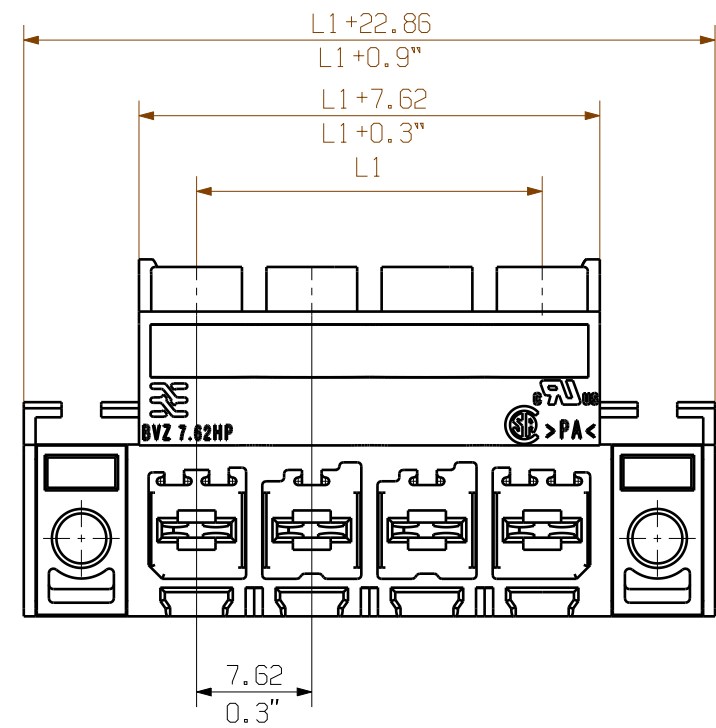
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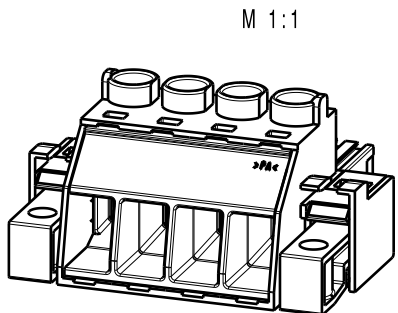
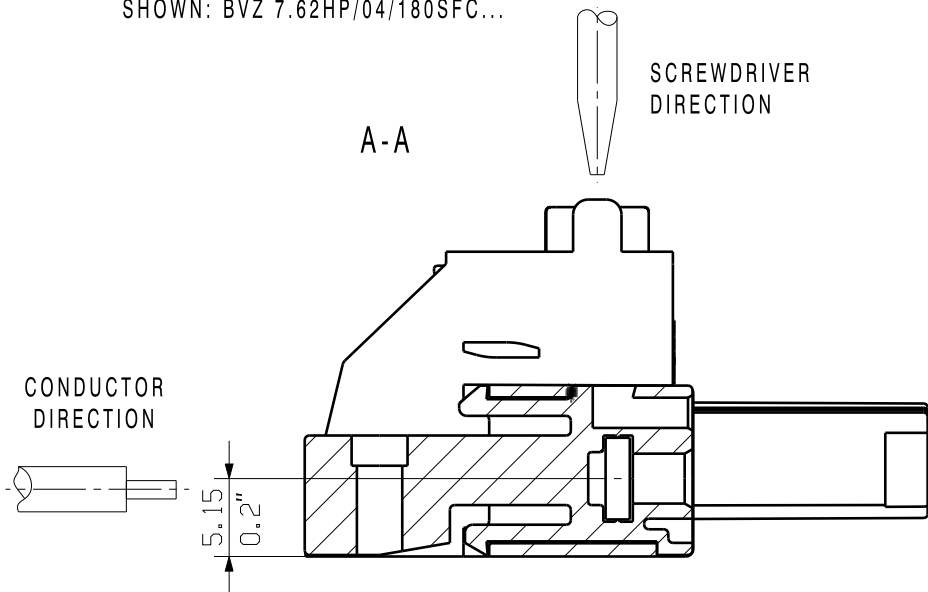
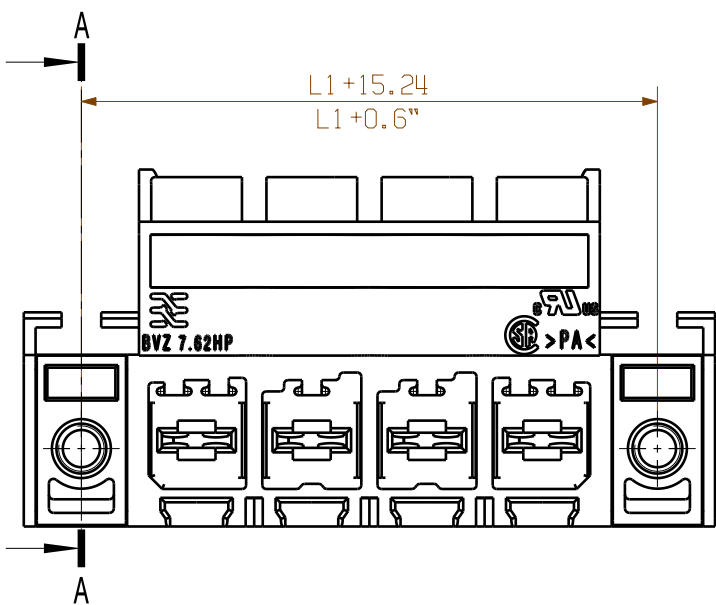
Dimensions without tolerances are no check dimensions

The English version is binding

SHOWN: BVZ 7.62HP/04/180FC...



SHOWN: BVZ 7.62HP/04/180SFC...



ALLGEMEINGUELTIGE KUNDENZEICHNUNG, AKTUELLER STAND NUR AUF ANFRAGE
GENERAL CUSTOMER DRAWING, TOPICAL VERSION ONLY IF REQUIRED

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance with VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

GENERAL TOLERANCE:
DIN ISO 2768-mK



Scale: 2:1

Supersedes: .

100963/5 11.01.18 HELIS_MA		01	Cat.no.: .	
Modification			Weidmüller	
Drawn	Date	Name	BVZ 7.62HP/...FC BUCHSENLEISTE SOCKET CONNECTOR	
Responsible		KRUG_M		
Checked	02.02.2018	HELIS_MA		
Approved		LANG_T		
Product file: SV/BVZ 7.62			7340	

n	POLZAHL POLES	L1 [mm]	L1 [inch]
12	83.82	3.3	
11	76.20	3.0	
10	68.58	2.7	
9	60.96	2.4	
8	53.34	2.1	
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	