

BVFL 7.62HP/04/180MF3 SN BK BX**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

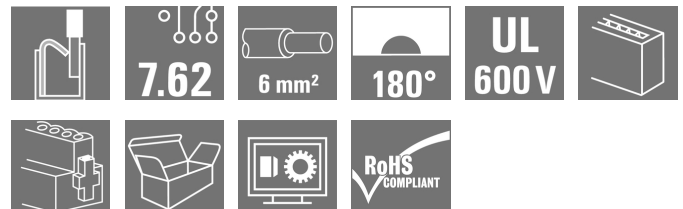
32760 Detmold

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Product image

180° female plug with PUSH IN connection system with adjustable actuator (pusher) for field wiring 6 mm² in a 7.62 pitch. Meets the requirements of UL 1059 600 V Class C ad IEC 61800-5-1. Also ideal as a touch-safe solution for the power output. The self-locking middle flange which can optionally also be screwed, reduces the space requirements by one pitch width in comparison with conventional solutions. Variants: without flange, external flange, middle flange with snap-on mechanism and optionally additional screw mount

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN with actuator, Clamping range, max. : 6 mm ² , Box
Order No.	1547540000
Type	BVFL 7.62HP/04/180MF3 SN BK BX
GTIN (EAN)	4050118353310
Qty.	48 pc(s).
Product data	IEC: 1000 V / 41 A / 0.5 - 6 mm ² UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Box

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Technical data**Dimensions and weights**

Depth	52.1 mm	Depth (inches)	2.051 inch
Height	20.6 mm	Height (inches)	0.811 inch
Net weight	11.875 g		

System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
Number of poles	4	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 ²
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		

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 600	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 ²
Clamping range, max.	6 mm ²
Solid, min. H05(07) V-U	0.5 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	6 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 6 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 6 mm ² max.	

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Technical data

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		H0,75/12 OR
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		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	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	Type	fine-wired	
	nominal		2.5 mm ²
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	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	12 mm
	Recommended wire-end ferrule		H6,0/12
	Stripping length	nominal	14 mm
	Recommended wire-end ferrule		H6,0/20 SW

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, max. number of poles (Tu=20°C)	41 A
Rated current, max. number of poles (Tu=40°C)	38 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.	10.4 mm

Rated current, min. number of poles (Tu=20°C)

41 A

Rated current, min. number of poles (Tu=40°C)

41 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.

12.7 mm

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-70176790

Rated voltage (Use group B / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	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 / CSA)	600 V
Rated current (Use group B / CSA)	33 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)	39 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)	39 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, max.	AWG 8

Packing

Packaging	Box	VPE length	352 mm
VPE width	138 mm	VPE height	61 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	ECLASS 12.0	27-46-02-02

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Technical data**Important note**

IPC conformity	Conformity: The products are developed, manufactured and delivered according to 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 variants 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. • Additional pole combinations on request • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Product Change Notification	20220201 Visual change OMNIMATE® Power PCB terminal blocks and connectors 20220201 Visuelle Änderung OMNIMATE® Power Leiterplattenklemmen und -steckverbinder 20220208 Visual change Temporarily different color for connectors and accessories 20220208 Visuelle Änderung Vorübergehend anderer Farbton für Steckverbinder und Zubehör
User Documentation	Operating Instruction BVFL QR-Code product handling video
Catalogues	Catalogues in PDF-format
Brochures	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

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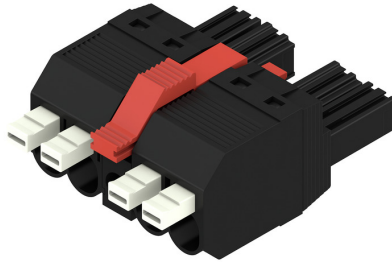
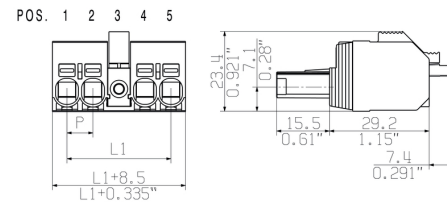
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Drawings

Product image

Dimensional drawing info@weidmueller.com

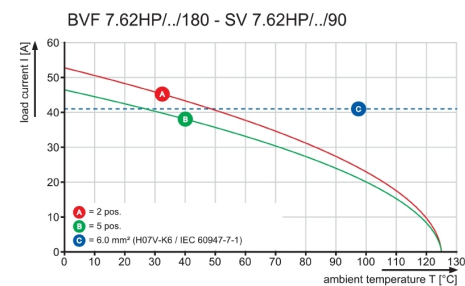
Connection diagram

6	M(S)F6	o	o	o	o	o	X	o
6	M(S)F5	o	o	o	o	X	o	o
6	M(S)F4	o	o	o	X	o	o	o
6	M(S)F3	o	o	X	o	o	o	o
6	M(S)F2	o	X	o	o	o	o	o
5	M(S)F5	o	o	o	o	X	o	
5	M(S)F4	o	o	o	X	o	o	
5	M(S)F3	o	o	X	o	o	o	
5	M(S)F2	o	X	o	o	o	o	
4	M(S)F4	o	o	o	X	o		
4	M(S)F3	o	o	X	o	o		
4	M(S)F2	o	X	o	o	o		
3	M(S)F3	o	o	o	X	o		
3	M(S)F2	o	X	o	o			
2	M(S)F2	o	X	o				
NO OF POLES	X = MIDDLE FLANGE POSITION	1	2	3	4	5	6	7

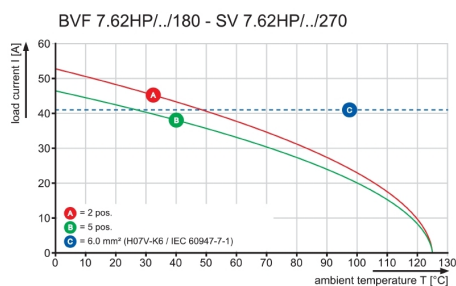
POS. 1 2 3 4 5



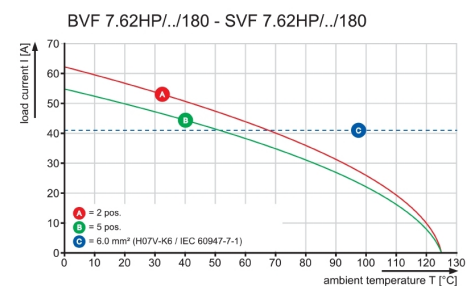
Graph



Graph



Graph



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Drawings

Product benefits



Secure connection of small conductors
PUSH IN WIRE READY

Product benefits



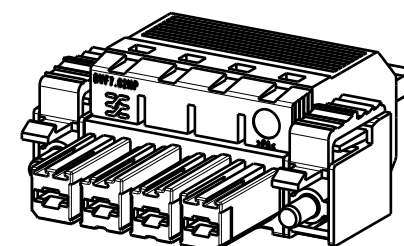
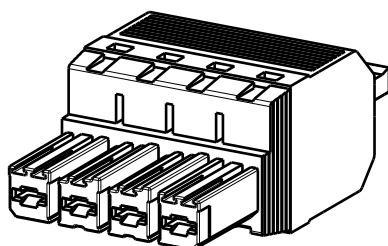
Installation without tools
Outlet direction: 90° und 180°

SHOWN: BVFL 7.62HP/04/180(S)F

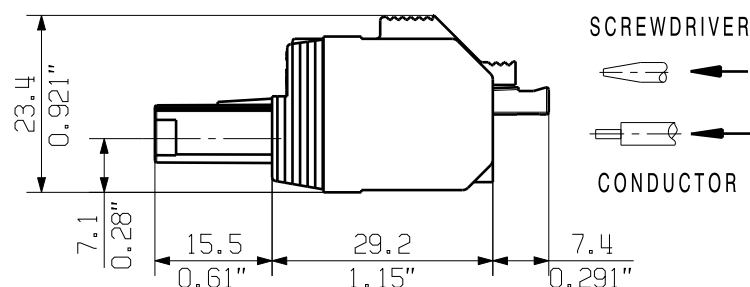
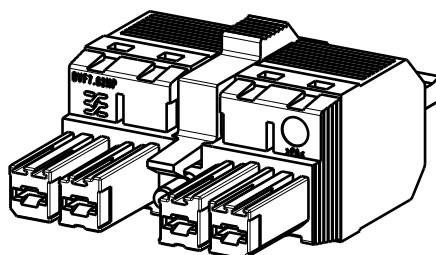
For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.

The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.



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, thermic and corrosive stress will be satisfied.



F = Flansch / flange
SF = Schraubflansch / screw flange
MF = Mittelflansch / middle flange
MSF = Mittelschraubflansch / middle screw flange
P = Raster / pitch
n = Polzahl/no of poles

6 M(S)F 4	P	P	P	M(S)F	P	P	P
5 M(S)F 4	P	P	P	M(S)F	P	P	
5 M(S)F 3	P	P	M(S)F	P	P	P	
4 M(S)F 4	P	P	P	M(S)F	P		
4 M(S)F 3	P	P	M(S)F	P	P		
3 M(S)F 3	P	P	M(S)F	P			
3 M(S)F 2	P	M(S)F	P	P			
2 M(S)F 2	P	M(S)F	P				
POS.	1	2	3	4	5	6	7

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)

 DIN ISO 2768-m					CAT.NO.: .	
	97120/0 18.08.17 HELIS_MA	00	Weidmüller 		C 60714 03	
	MODIFICATION				DRAWING NO. ISSUE N°	
			DATE	NAME	BVFL 7.62HP/.. /180... BUCHSENSTECKER FEMALE PLUG	
	DRAWN	23.09.2014	HELIS_MA			
	RESPONSIBLE		KRUG_M			
	SCALE: 2:1	CHECKED	18.08.2017	HELIS_MA		
SUPERSEDES: .	APPROVED		LANG_T	PRODUCT FILE: BVF 7.62HP	7390	