

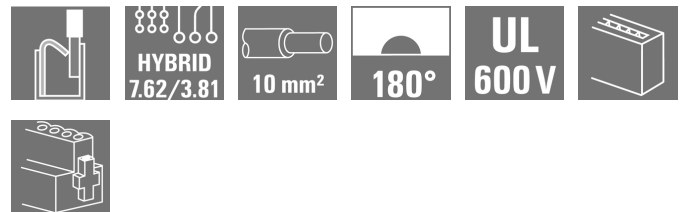
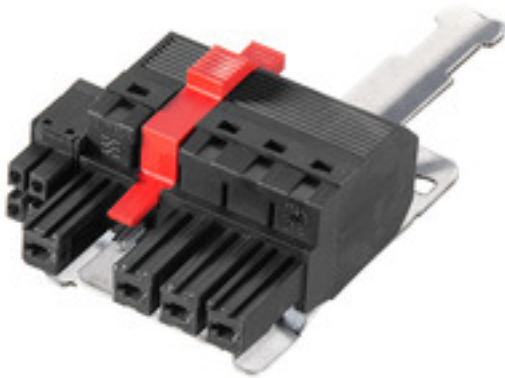
BVF 7.62HP/4/180MSF4 BCF/4 SNBKBX SH180**Weidmüller Interface GmbH & Co. KG**

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.
Fulfills the IEC 61800-5-1 requirement and for the energy contact UL 1059 ClassC 600 V.

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.

Including pre-assembled pluggable shield connection for large area shielding in your application.
Directly during the plug-in process itself, the shield connection is attached vibration-proof to the contact area of the metal housing.

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN, Clamping range, max. : 10 mm², Box
Order No.	2681780000
Type	BVF 7.62HP/4/180MSF4 BCF/4 SNBKBX SH180
GTIN (EAN)	4050118691436
Qty.	20 pc(s).
Product data	IEC: 800 V / 38 A / 0.5 - 10 mm² UL:
Packaging	Box

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Technical data**Dimensions and weights**

Net weight	43.37 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	4	L1 in mm	30.48 mm
L1 in inches	1.2 inch	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
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
Plugging force/pole, max.	17 N	Pulling force/pole, max.	15 N

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 ²
Clamping range, max.	10 mm ²
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, max. H07V-R	10 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, 1.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 6 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 1.5 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 10 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	H0.5/18 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
Cross-section for conductor connection		Type	fine-wired
		nominal	10 mm ²
wire end ferrule		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H10.0/12
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.		

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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)

38 A

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

34 A

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

630 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

6 kV

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

38 A

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

34 A

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

800 V

Rated voltage for surge voltage class /
pollution degree III/3

630 V

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

6 kV

Short-time withstand current resistance

3 x 1s with 420 A

Packing

Packaging

Box

VPE length

338 mm

VPE width

130 mm

VPE height

54 mm

Technical data - hybrid

stripping length (Signal)

8 mm

Pitch in inches (Signal)

0.15 inch

L2 in inch

0.15 inch

Contact material (Signal)

CuMg

Layer structure of the plug contact
(Signal)

1-3 µ Ni / 4-8 µ Sn

Rated voltage for overvoltage class/
pollution severity level III/2 (Signal)

150 V

Rated impulse voltage for overvoltage
class/pollution severity level II/2 (Signal)

2.5 kV

Rated impulse voltage for overvoltage
class/pollution severity level III/3
(Signal)

2.5 kV

Connector cross-section (Signal)

AWG 26...AWG 16

Pitch in mm (Signal)

3.81 mm

L2 in mm

3.81 mm

Number of rows (Signal)

2

Contact surface (Signal)

tinned

Rated voltage for overvoltage class/
pollution severity level II/2 (Signal)

63 V

Rated voltage for overvoltage class/
pollution severity level III/3 (Signal)

250 V

Rated impulse voltage for overvoltage
class/pollution severity level III/2
(Signal)

2.5 kV

Short-time withstand current resistance
(Signal)

3 x 1s with 80 A

Conductors that can be connected - HybridClamping range, rated connection
(Power)0.5...10 mm²

Connector cross-section (Power)

AWG 24...AWG 8

solid, H05(07) V-U (Power)

0.5...10 mm²

flexible, H05(07) V-K (Power)

0.5...6 mm²

with wire-end ferrule with collar (Power)

0.5...6 mm²with wire-end ferrule according to DIN
46 228/1 (Power)0.5...6 mm²Clamping range, rated connection
(Signal)0.2...1.5 mm²

Connector cross-section AWG (Signal)

AWG 26...AWG 16

solid, H05(07) V-U (Signal)

0.14...1.5 mm²

flexible, H05(07) V-K (Signal)

0.14...1.5 mm²with wire-end ferrule with collar, DIN 46
228/4 (Signal)0.25...1.5 mm²with wire-end ferrule according to DIN
46 228/1 (Signal)0.25...1.5 mm²**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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www.weidmueller.com**Technical data****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	• Technical specifications refer to the power contacts • Technical data of signal contacts: 50V / 5A, stripping length 8mm • 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 • 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 • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Downloads

Brochure/Catalogue	Catalogues in PDF-format
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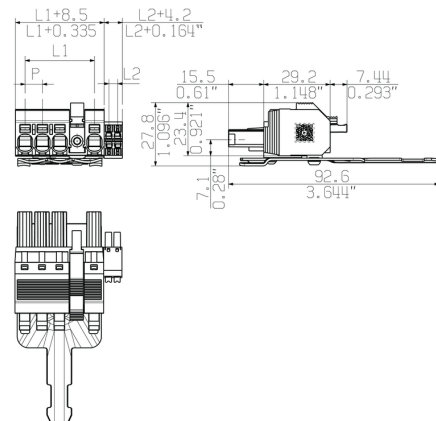
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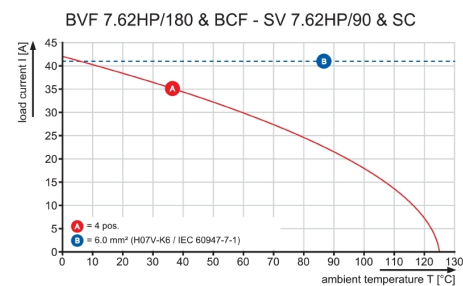
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Drawings

Dimensional drawing



Graph



Graph

