

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image























180° female header with PUSH IN connection technology for field wiring in 6 mm² with 7.62 pitch.

Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1. Ideal touch-safe solution for the power output.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: without flange, external flange, middle flange with detent fastening 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, Clamping range, max. : 10 mm², Box
Order No.	<u>1060590000</u>
Туре	BVF 7.62HP/04/180MF3 SN BK BX
GTIN (EAN)	4032248809950
Qty.	40 pc(s).
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm² UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Вох

Creation date March 22, 2021 9:44:31 PM CET



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	47.7 mm	Depth (inches)	1.878 inch
Height	22.9 mm	Height (inches)	0.902 inch
Net weight	24.975 a		

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	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm²
Touch-safe protection acc. to DIN VDE		Touch-safe protection acc. to DIN VDE	
57 106	Safe from finger touch	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	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	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Layer structure of plug contact	68 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 min.	4, 0.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 6 mm ²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm ²		



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H0,5/12 OR
	Cross-section for conductor connection	Туре	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	Туре	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	Туре	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	Туре	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	Туре	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	Туре	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
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H10,0/12

is to be chosen depending on the product and the rated voltage.



Weidmüller Interface GmbH & Co. KG

E60693

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles	57 A
- 	IEC 00004-1, IEC 0 1984	(Tu=20°C)	57 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	51 A	(Tu=40°C)	57 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	45 A	pollution degree II/2	1,000 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	1,000 V	pollution degree III/3	800 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	6 kV	class/ pollution degree III/2	8 kV
Rated impulse voltage for surge voltage		Short-time withstand current resistance	
class/ contamination degree III/3	8 kV		3 x 1s with 420 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)
	€ ₽-	
	ME.	

			200039-1121690
Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	33 A
Rated current (Use group C / CSA)	33 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details -		

Rated data acc. to UL 1059

Institute (cURus)	10. 30	Certificate No. (cURus)

	U = - U U U		E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	39 A
Rated current (Use group C / UL 1059)	39 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details -		

see approval certificate.

see approval certificate.

Packing

Packaging	Box	VPE length	350 mm
VPE width	135 mm	VPE height	55 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, pitch
	Evaluation	available
	Test	durability
	Evaluation	passed



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.08		
	Test	180° turned with coding elements		
	Evaluation	passed		
	Test	180° turned without coding elements		
	Evaluation	passed		
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 04.08		
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section		
		Type of conductor stranded 0.5 mm ² and conductor cross-section		
		Type of conductor solid 6 mm ² and conductor cross-section		
		Type of conductor stranded 6 mm ² and conductor cross-section		
		Type of conductor AWG 24/1 and conductor cross-section		
		Type of conductor AWG 24/19 and conductor cross-section		
		Type of conductor AWG 14/1 and conductor cross-section		
		Type of conductor AWG 14/19 and conductor cross-section		
	Evaluation passed			
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00		
oosening of conductors	Requirement	0.3 kg		
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section		
		Type of conductor H05V-K0.5 and conductor cross-section		
		Type of conductor AWG 20/1 and conductor cross-section		
		Type of conductor AWG 20/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	1.4 kg		
	Conductor type	Type of conductor H07V-U6 and conductor cross-section		
		Type of conductor H07V-K6 and conductor cross-section		
		Type of conductor AWG 10/1 and conductor cross-section		
		Type of conductor AWG 10/19 and conductor cross-section		
	Evaluation	passed		



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00				
	Requirement	≥20 N				
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section				
		Type of conductor H05V-K0.5 and conductor cross-section				
		Type of conductor AWG 20/1 and conductor cross-section				
		Type of conductor AWG 20/19 and conductor cross-section				
	Evaluation	Evaluation passed				
	Requirement	≥80 N				
	Conductor type	Type of conductor H07V-U6 and conductor cross-section				
		Type of conductor H07V-K6 and conductor cross-section				
		Type of conductor AWG 10/1 and conductor cross-section				
		Type of conductor AWG 10/19 and conductor cross-section				
	Evaluation	passed				

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

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	Additional colours 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.
- 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



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Approvals

Approvals	
	® c was us lill

ROHS	Conform
UL File Number Search	E60693

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	<u>STEP</u>
Engineering Data	EPLAN, WSCAD
User Documentation	Operating Instruction BVF OR-Code product handling video



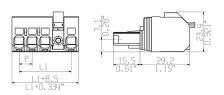
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

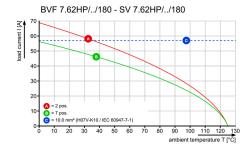
Dimensional drawing



Connection diagram

NO OF POLES	X = MIDDLE FLANGE POSITION			POS.	1 2 3	4 5		
	()	1	2	3	4	5	6	7
2	M(S)F2	0	Х	0				
3	M(S)F2	0	Х	0	0			
3	M(S)F3	0	0	Х	0			
4	M(S)F2	0	Х	0	0	0		
4	M(S)F3	0	0	Х	0	0		
4	M(S)F4	0	0	0	Х	0		
5	M(S)F2	0	Х	0	0	0	0	
5	M(S)F3	0	0	Х	0	0	0	
5	M(S)F4	0	0	0	Х	0	0	
5	M(S)F5	0	0	0	0	Х	0	
6	M(S)F2	0	Х	0	0	0	0	0
6	M(S)F3	0	0	Х	0	0	0	0
6	M(S)F4	0	0	0	Х	0	0	0
6	M(S)F5	0	0	0	0	Х	0	0
6	M(S)F6	0	0	0	0	0	Х	0

Graph Graph



BVF 7.62HP/../180 - SVF 7.62HP/../180 80 70 60 40 30 20 0 - 2 pos. 0 - 100 mm (H07V-K10 / IEC 66947-7-1)

Graph

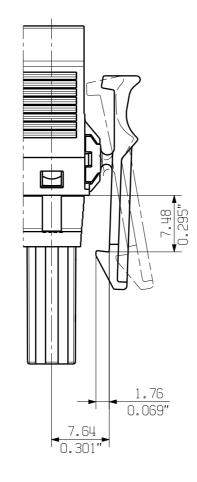
Product benefits



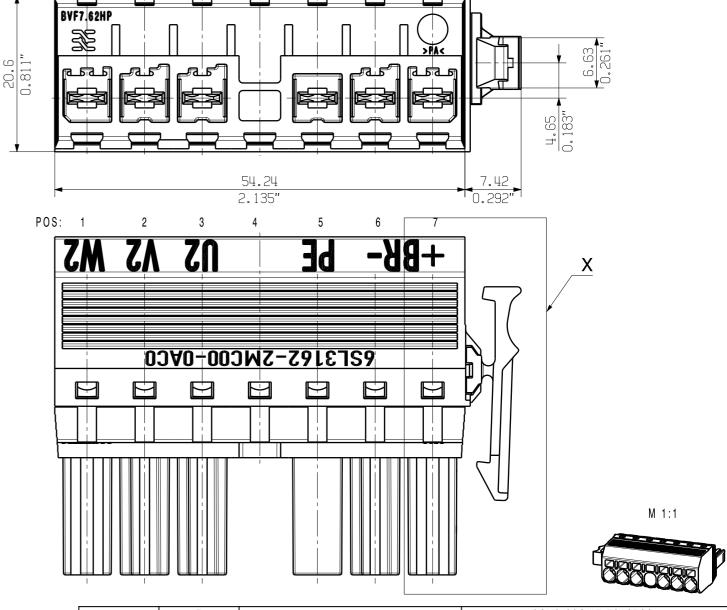
Outlet direction: 90° und 180°

7.62

Representation of the actuated retaining hook



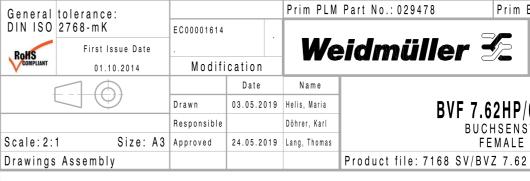
Plastic PA GF Retaining hook PA red Contact base material Cu-Leg Coating thickness - plug contact $6-8\mu m$ Sn material tension spring Steel Alloyed Crimp dimensions 5.0X4.0mm



45.72

1.8"

65L3162-2MC00-0AC0 2503040000 BVF 7.62HP/06/180 SN BK BX SO ٦N ЬΕ +BB-MS ۸5 1987300000 BVF 7.62HP/06/180 SN BK BX SO 1 ٦N ЬE +BB-Bedr. 5 6 ERP Fläche/ Bezeichnung/ Nummer/ description printing Bedruckung/printing number area Prim ERP Part No.: 1987300000



BVF 7.62HP/06/180 SO BUCHSENSTECKER FEMALE PLUG

60834

Sheet 01 of 01 sheets

Drawing no.

(10)

Issue no

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 occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

accordance to IEC 664 / VDE 0110.

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

alone. The neccessary creepage and clearance paths must be

observed in connection with the respective applicant in

The current-carrying capacity and pitch tolerance is to