



Klingenbergstraße 26 D-32758 Detmold Germany

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## **Product image**















1









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: 5, 180°, PUSH IN without actu- ator, Tension-clamp connection, Clamping range, max.: 10 mm², Box
Order No.	<u>1430130000</u>
Туре	BVF 7.62HP/05/180MF2 SN BK BX
GTIN (EAN)	4050118235197
Qty.	30 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Вох





Weidmüller Interface GmbH & Co. KG

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# **Technical data**

## **Approvals**

Approvals



ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate No. (cURus)	E60693	

## **Dimensions and weights**

Depth	47.7 mm	Depth (inches)	1.8779 inch
Height	22.9 mm	Height (inches)	0.9016 inch
Net weight	27.54 g		

### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

#### **System Parameters**

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	PUSH IN without actuator, Tension-clamp connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	5	L1 in mm	38.10 mm
L1 in inches	1.500 "	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	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	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-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 <sup>2</sup>	
Clamping range, 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>	
Stranded, max. H07V-R	10 mm <sup>2</sup>	
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	

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# Technical data

recillical data			
Flexible, max. H05(07) V-K	10 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 min.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 max.	4, 6 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm²		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm <sup>2</sup>
	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 <sup>2</sup>
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-	H0,75/18 W
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 15 mm
	who one fortule	Recommended wire-	H1,0/18 GE
		end ferrule	111,07 10 GE
	Cross-section for conductor connection	Type	fine-wired
		nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-	H1,5/12
		end ferrule	
		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 <sup>2</sup>
	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 <sup>2</sup>
	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 <sup>2</sup>
	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 <sup>2</sup>
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Catalogue status / Drawings

Stripping length

nominal

wire end ferrule





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180° turned with coding elements

passed

# **Technical data**

			ecommended wire nd ferrule	- <u>H10,0/12</u>
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.			
Rated data acc. to IEC				
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. nu (Tu=20°C)	ımber of poles	57 A
Rated current, max. number of poles (Tu=20°C)	51 A	Rated current, min. nu (Tu=40°C)	'	57 A
Rated current, max. number of poles (Tu=40°C)	45 A	Rated voltage for surge pollution degree II/2		1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge pollution degree III/3	e voltage class /	800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage class/ pollution degree	0 0	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
Creepage distance, min.	12.7 mm	Clearance, min.		10.4 mm
Rated data acc. to CSA				
Institute (CSA)	CSA	Certificate No. (CSA)		200039-1121690
Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use gro	oup C / CSA\	600 V
<u> </u>				
Rated voltage (Use group D / CSA)	600 V	Rated current (Use gro		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, AV	VG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.			
Rated data acc. to UL 1059				
	aunua		,	
Institute (cURus)	CURUS	Certificate No. (cURus	,	E60693
Rated voltage (Use group B / UL 1059)		Rated voltage (Use gro		600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use gro	oup B / UL 1059)	39 A
Rated current (Use group C / UL 1059)	39 A	Rated current (Use gro	oup D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AV	VG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.			
Packing				
Packaging	Вох	VPE length		353.00 mm
VPE width	136.00 mm	VPE height		61.00 mm
Type tests				
Toots Dunchility of no subjects	Ctondowd	DIA	JEN 61004 *	m 7 2 2 / 00 02 toldin
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		rk of origin, type ic	dentification, pitch
	Evaluation	ava	ilable	
	Test	dur	rability	
	Evaluation	passed		
Test: Misengagement (Non-	Standard	<u>'</u>		on 6.3 and 6.9.1 / 09.02,
interchangeability)  DIN EN 60512-13-5 / 11.08				

Creation date 29.11.2025 02:00:28 MEZ

Catalogue status / Drawings 4

Test Evaluation





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	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 <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 6 mm <sup>2</sup> 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
loosening of conductors	Requirement	0.3 kg
g c. coaco.c	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
Pull-out test		Type of conductor AWG 10/1 and conductor cross-section
		Type of conductor AWG 10/19 and conductor cross-section
	Evaluation	passed
	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



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# **Technical data**

	Type of conductor and conductor cross-section	H05V-K0.5
	Type of conductor and conductor cross-section	AWG 20/1
	Type of conductor and conductor cross-section	AWG 20/19
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U6
	Type of conductor and conductor cross-section	H07V-K6
	Type of conductor and conductor cross-section	AWG 10/1
	Type of conductor and conductor cross-section	AWG 10/19
Evaluation	passed	

#### 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 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.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	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
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



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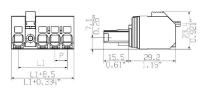
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# **Drawings**

## **Product image**



## **Dimensional drawing**

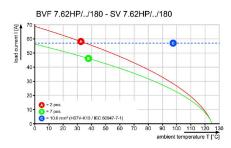


#### Similar to illustration

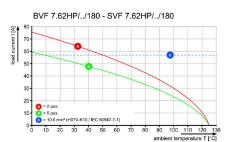
#### **Connection diagram**

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	X	О	0			
3	M(S)F3	0	0	X	0			
4	M(S)F2	0	Х	0	0	0		
4	M(S)F3	0	0	X	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	X	0	0	0	
5	M(S)F4	0	0	o	х	0	0	
5	M(S)F5	0	0	o	0	х	0	
6	M(S)F2	0	х	О	0	0	0	0
6	M(S)F3	0	0	X	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	o	0	0	X	0

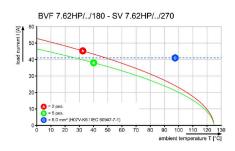
## Graph



## Graph



## Graph







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# **Drawings**

#### **Product benefits**



Installation without toolsOutlet direction: 90° und 180°



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## Accessories

#### **Coding elements**



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options Our service:

Design your individual connectors simply by using the product configurator.

### **General ordering data**

Ту	ре	BV/SV 7.62HP KO	Version
Or	der No.	<u>1937590000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GT	IN (EAN)	4032248608881	of poles: 1
Qt	y.	50 ST	

#### **Shielding**



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options Our service:

Design your individual connectors simply by using the product configurator.

#### **General ordering data**

Туре	BVF 7.62HP SH150 4-6 KIT	Version
Order No.	<u>1118480000</u>	PCB plug-in connector, Accessories, For a shield connection, black,
GTIN (EAN)	4032248899449	Number of poles: 0
Qty.	25 ST	
Type	BVF 7.62HP SH180 4-6 KIT	Version
Type Order No.	BVF 7.62HP SH180 4-6 KIT 1118470000	Version PCB plug-in connector, Accessories, For a shield connection, black,

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# Accessories

BVF 7.62HP SH210 4-6 KIT Type

Order No. 1118490000 GTIN (EAN)

4032248899302 25 ST

PCB plug-in connector, Accessories, For a shield connection, black,

Number of poles: 0

#### **Slotted screwdriver**

Qty.



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

#### **General ordering data**

Туре SDS 0.8X4.5X125 Order No. 9009020000 GTIN (EAN) 4032248266883 1 ST

Version Screwdriver, Screwdriver

## **Crimping tools**



Crimping tools for wire end ferrules, with and without plastic collars

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

#### **General ordering data**

Туре PZ 6/5 Order No. 9011460000 Pressing tool, Crimping tool for wire-end ferrules, 0.25mm<sup>2</sup>, 6mm<sup>2</sup>, GTIN (EAN) 4008190165352 Trapezoidal indentation crimp Qty. 1 ST

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# Counterpart

#### **SV 7.62HP 180MF SN**



180° male header with middle flange with a 7.62 pitch. Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V.

Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger.

The automatically locking middle flange which can optionally also be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.

On request: available with screw flange or without flange.

#### **General ordering data**

 Type
 SV 7.62HP/05/180MF2 3.5...
 Version

 Order No.
 1464320000
 PCB plug-in connector, male header, closed side, Middle flange, THT

 GTIN (EAN)
 4050118270952
 solder connection, 7.62 mm, Number of poles: 5, 180°, Solder pin

 Qty.
 36 ST
 length (I): 3.5 mm, tinned, black, Box

#### **SV 7.62HP 270MF SN**



270° male header with middle flange with a 7.62 pitch. Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V. Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger. The automatically locking middle flange which can optionally also be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.

On request: available with screw flange or without flange.

### **General ordering data**

Type SV 7.62HP/05/270MF2 3.5... Version

Order No. 1464350000 PCB plug-in connector, male header, closed side, Middle flange, THT

GTIN (EAN) 4050118270860 solder connection, 7.62 mm, Number of poles: 5, 270°, Solder pin

Oty. 36 ST length (I): 3.5 mm, tinned, black, Box

#### **SV 7.62HP 90MF SN**



90° male header with middle flange with a 7.62 pitch. Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V.

Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger.

The automatically locking middle flange which can optionally also be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.

On request: available with screw flange or without flange.





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# Counterpart

#### **General ordering data**

Туре	SV 7.62HP/05/90MF2 3.5S	Version
Order No.	1464280000	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4050118270990	solder connection, 7.62 mm, Number of poles: 5, 90°, Solder pin
Qty.	36 ST	length (I): 3.5 mm, tinned, black, Box

#### **SV-SMT 7.62IT 90MF SN BX**



OMNIMATE Power for IT networks - scalable to 50 kVA Tailor-made solutions for special requirements More standard-compliance means fewer compromises: OMNIMATE Power for IT networks has integrated features incorporated as standard across the range. This makes the design-in and approvals process simpler and makes them safer and more reliable in operation. Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5.5 mm). The selfsnapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. In conclusion: You need no additional device covering. The application-oriented design means that no compromises are necessary during the approval process.

#### **General ordering data**

SV-SMT 7.62IT/05/90MF5	Version	
2499790000	PCB plug-in connector, male header, Middle flange, THT/THR solder	
4050118513219	connection, 7.62 mm, Number of poles: 5, 90°, Solder pin length (I):	
50 ST	2.6 mm, tinned, black, Box	
SV-SMT 7.62IT/05/90MF5	Version	
2498670000	PCB plug-in connector, male header, Middle flange, THT/THR solder	
4050118511871	connection, 7.62 mm, Number of poles: 5, 90°, Solder pin length (I):	
50 ST	3.5 mm. tinned. black. Box	
	2499790000 4050118513219 50 ST SV-SMT 7.62IT/05/90MF5 2498670000 4050118511871	