

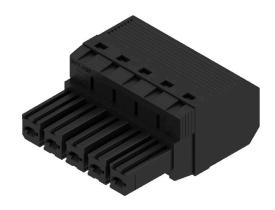


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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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>1060420000</u>
Туре	BVF 7.62HP/05/180 SN BK BX
GTIN (EAN)	4032248810109
Qty.	40 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Вох





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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	44.7 mm	Depth (inches)	1.7598 inch
Height	20 mm	Height (inches)	0.7874 inch
Net weight	27.38 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	30.48 mm
L1 in inches	1.200 "	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
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

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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 ²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²		
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 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-	H0,75/18 W
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm ²
	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 ²
	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 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
		1	

Catalogue status / Drawings

Stripping length

nominal

wire end ferrule





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DIN EN 60512-13-5 / 11.08 180° turned with coding elements

passed

Technical data

		Recommended wird end ferrule	
Reference text		plastic collar should not be larger than the on the product and the rated voltage.	e pitch (P), Length of ferrul
Rated data acc. to IEC			
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	57 A
Rated current, max. number of poles (Tu=20°C)	51 A	Rated current, min. number of poles (Tu=40°C)	57 A
Rated current, max. number of poles (Tu=40°C)	45 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	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 (CCA)	CSA	Contificate No. (CCA)	200020 1121000
Institute (CSA)		Certificate No. (CSA)	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 - see approval certificate.		
Rated data acc. to UL 1059			
Institute (cURus)	CURUS	Certificate No. (cURus)	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)		Rated current (Use group D / UL 1059)	
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.		
Packing			
Packaging	Box	VPE length	351.00 mm
VPE width	135.00 mm	VPE height	62.00 mm
Type tests		<u> </u>	'
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 i	dentification, pitch
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 secti DIN EN 60512-13-5	on 6.3 and 6.9.1 / 09.02 / 11.08
	Test	180° turned with co	ding elements

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4 Catalogue status / Drawings

Test Evaluation





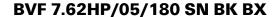
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Technical data

	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	
loosening of conductors	Requirement 0.3 kg		
loosening of conductors	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	
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	





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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	/
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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

EC002638	ETIM 7.0	EC002638
EC002638	ETIM 9.0	EC002638
EC002638	ECLASS 9.0	27-44-03-09
27-44-03-09	ECLASS 10.0	27-44-03-09
27-46-02-02	ECLASS 12.0	27-46-02-02
27-46-02-02	ECLASS 14.0	27-46-02-02
27-46-02-02		
	EC002638 EC002638 27-44-03-09 27-46-02-02 27-46-02-02	EC002638 ETIM 9.0 EC002638 ECLASS 9.0 27-44-03-09 ECLASS 10.0 27-46-02-02 ECLASS 12.0 27-46-02-02 ECLASS 14.0



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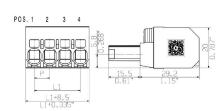
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Drawings

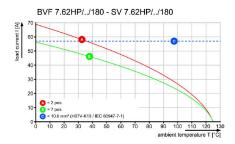
Product image

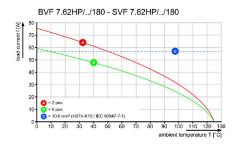


Dimensional drawing

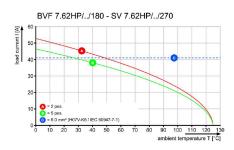


Graph Graph





Graph



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 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² 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	BV/SV 7.62HP KO
Order No.	1937590000
GTIN (EAN)	4032248608881
Otv	50 ST

Version

PCB plug-in connector, Accessories, Coding element, black, Number

of poles: 1

Slotted screwdriver



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

Type SDS 0.8X4.5X125 Order No. 9009020000 GTIN (EAN) 4032248266883 Oty. 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





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Accessories

General ordering data

Type	PZ 6/5	Version
Order No.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp
Qty.	1 ST	



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Counterpart

SV 7.62HP 180G SN



Single-row, high-performance male header for side-byside mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

 Type
 SV 7.62HP/05/180G 3.5SN...
 Version

 Order No.
 1930630000
 PCB plug-in connector, male header, closed side, THT solder

 GTIN (EAN)
 4032248580606
 connection, 7.62 mm, Number of poles: 5, 180°, Solder pin length (I):

 Qty.
 48 ST
 3.5 mm, tinned, black, Box

SV 7.62HP 270G SN



Single-row, high-current and high-performance male headers for side-by-side mounting without sacrificing any poles or with flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity and additional fastening in the flange.

General ordering data

Туре	SV 7.62HP/05/270G 3.5SN	Version
Order No.	1931290000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248581320	connection, 7.62 mm, Number of poles: 5, 270°, Solder pin length (I):
Qty.	48 ST	3.5 mm, tinned, black, Box

SV 7.62HP 90G SN

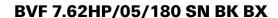


Single-row, high-current and high-performance male headers for side-by-side mounting without sacrificing any poles or with flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity and additional fastening in the flange.

General ordering data

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Туре	SV 7.62HP/05/90G 3.5SN	Version
Order No.	<u>1930300000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248580170	connection, 7.62 mm, Number of poles: 5, 90°, Solder pin length (I):
Qty.	48 ST	3.5 mm, tinned, black, Box





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Counterpart

Туре	SV 7.62HP/05/90G 3.5SN	Version
Order No.	2465330000	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4050118479775	connection, 7.62 mm, Number of poles: 5, 90°, Solder pin length (I):
Qty.	48 ST	3.5 mm, tinned, black, Box

SVD 7.62HP 270G SN



Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

General ordering data

Туре	SVD 7.62HP/10/270G 3.2S	Version
Order No.	<u>1543330000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4050118348163	connection, 7.62 mm, Number of poles: 10, 270°, Solder pin length
Qty.	24 ST	(I): 3.2 mm, tinned, black, Box

SV-SMT 7.62HP 270G BX



OMNIMATE Power BV / SV 7.62HP - the 28 kVA performance class

Tailor-made solutions for high performers More power reserves for higher load bearing capacity: The OMNIMATE Power BV / SV 7.62HP is the middle-class of the power connector systems. It has a large clamping capacity, high overload resistance and the largest range of variants and accessories to choose from: the high performer of the HP range. HP means High Performance – this performance covers a great deal: the full rated current up to 50°C without derating, unlimited 600-V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

General ordering data

Туре	SV-SMT 7.62HP/05/270G 2	Version
Order No.	2499360000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118512601	connection, 7.62 mm, Number of poles: 5, 270°, Solder pin length (I):
Qty.	48 ST	2.6 mm, tinned, black, Box
Type	SV-SMT 7.62HP/05/270G 3	Version
Type Order No.	SV-SMT 7.62HP/05/270G 3 2498420000	Version PCB plug-in connector, male header, closed side, THT/THR solder
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Counterpart

SV-SMT 7.62HP 90G BX



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General ordering data

Туре	SV-SMT 7.62HP/05/90G 2	Version
Order No.	2499560000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118512861	connection, 7.62 mm, Number of poles: 5, 90°, Solder pin length (I):
Qty.	48 ST	2.6 mm, tinned, black, Box
Туре	SV-SMT 7.62HP/05/90G 3	Version
Type Order No.	SV-SMT 7.62HP/05/90G 3 2498370000	Version PCB plug-in connector, male header, closed side, THT/THR solder
	, ,	

SVF 7.62HP/180G



180° inverted pin header with PUSH IN connection technology for field wiring in 6mm² in a 7.62 pitch, as a "three-flange variant" for enclosure feed-through. Suitable for enclosures with a max. wall thickness of 2mm. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

General ordering data

Туре	SVF 7.62HP/05/180G SN B	Version
Order No.	<u>1060870000</u>	PCB plug-in connector, male plug, 7.62 mm, Number of poles:
GTIN (EAN)	4032248810840	5, 180°, PUSH IN without actuator, Tension-clamp connection,
Qty.	40 ST	Clamping range, max. : 10 mm², Box



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Counterpart

SVZ 7.62HP 180 SN



High-performance male 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 connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Conoral ordoning data			
	Туре	SVZ 7.62HP/05/180G SN B	Version
	Order No.	<u>1931660000</u>	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 5,
	GTIN (EAN)	4032248581658	180°, Clamping yoke connection, Clamping range, max.: 6 mm², Box
	Qty.	50 ST	