



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**















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Bus connector with two connections per pole with the time-saving 6mm<sup>2</sup> PUSH IN connection system.

- The extremely short cross-connection allows you to safely loop through bus currents.
- PUSH IN connection: Solid wires and stranded wires with ferrules need only to be inserted and they are ready.
- The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

### **General ordering data**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 7, 180°, PUSH IN with actuator, Tension-clamp connection, Clamping range, max. : 10 mm², Box
Order No.	<u>2720470000</u>
Туре	BVDF 7.62HP/07/180SN BK BX
GTIN (EAN)	4050118780987
Qty.	15 items
Product data	IEC: 600 V / 46 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Вох





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# **Technical data**

Approvals	Αı	pp	ro	va	Is
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Approvals	c <b>FL</b> *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

## **Dimensions and weights**

Depth	42.55 mm	Depth (inches)	1.6752 inch
Height	35.05 mm	Height (inches)	1.3799 inch
Width	69.58 mm	Width (inches)	2.7394 inch
Net weight	73.17 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 with actuator, Tension-clamp connection
Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "
Conductor outlet direction	180°
	7
Number of poles L1 in mm	45.62 mm
=	
L1 in inches	1.800 "
Number of rows	2
Pin series quantity	1
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
Stripping length tolerance	min1 mm
	max. 1 mm
Screwdriver blade	0.6 x 3.5
Plugging cycles	25
Plugging force/pole, max.	12 N
Pulling force/pole, max.	12 N

## **Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	1
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	13 μm Ni / 410 μm Sn
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C

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# **Technical data**

	-50 °C Operating temperature, max.		120 °C
Conductors suitable for conr	nection		
	0.5		
Clamping range, min.	0.5 mm <sup>2</sup>		
Clamping range, max.	10 mm²		
Wire connection cross section AWG,	AWG 24		
min. Wire connection cross section AWG,	AWG 8		
max.	AVVG 6		
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>		
Solid, max. H05(07) V-U	10 mm²		
Stranded, min. H07V-R	1.5 mm <sup>2</sup>		
Stranded, max. H07V-R	6 mm <sup>2</sup>		
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>		
Flexible, max. H05(07) V-K	10 mm <sup>2</sup>		
w. plastic collar ferrule, DIN 46228 pt	4, 0.5 mm <sup>2</sup>		
min.			
w. wire end ferrule, DIN 46228 pt 1,	0.5 mm <sup>2</sup>		
min.			
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm <sup>2</sup>		
Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>
c.apasio conductor	wire end ferrule	Stripping length	nominal 14 mm
	Wife ond forfulo	Recommended wire-	
		end ferrule	110,0/ 12 011
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire-	H0,75/18 W
		end ferrule	
	Cross-section for conductor connection	nominal	1 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire- end ferrule	H1,0/18 GE
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,5/12
		Stripping length	nominal 15 mm
		Recommended wire-	
		end ferrule	.11,0/ 100 000
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
	wire end ferrule	Stripping length Recommended wire-	
	wire end ferrule	Stripping length Recommended wire- end ferrule	H2,5/12
	wire end ferrule	Stripping length Recommended wire- end ferrule Stripping length Recommended wire-	H2,5/12 nominal 14 mm
		Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule	H2,5/12 nominal 14 mm H2,5/19D BL
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal	H2,5/12  nominal 14 mm H2,5/19D BL  4 mm <sup>2</sup>
		Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length	H2,5/12  nominal 14 mm H2,5/19D BL  4 mm <sup>2</sup> nominal 12 mm
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal	H2,5/12  nominal 14 mm H2,5/19D BL  4 mm <sup>2</sup> nominal 12 mm
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire-	H2,5/12  nominal 14 mm H2,5/19D BL  4 mm <sup>2</sup> nominal 12 mm H4,0/12
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire- end ferrule	H2,5/12
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire- end ferrule Stripping length	H2,5/12
	Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire- end ferrule Stripping length Recommended wire-	H2,5/12
	Cross-section for conductor connection wire end ferrule	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length	H2,5/12  nominal 14 mm H2,5/19D BL  4 mm² nominal 12 mm H4,0/12  nominal 14 mm H4,0/20D GR  6 mm² nominal 12 mm²
	Cross-section for conductor connection wire end ferrule  Cross-section for conductor connection	Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule Stripping length Recommended wire- end ferrule nominal	H2,5/12     nominal   14 mm   H2,5/19D BL   4 mm²     nominal   12 mm   H4,0/12     nominal   14 mm   H4,0/20D GR   6 mm²     nominal   12 mm







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# **Technical data**

		Recommended wire- end ferrule	H6,0/20 SW
	Cross-section for conductor connection	nominal	10 mm <sup>2</sup>
Reference text	The outside diameter of the plastic collar should r is to be chosen depending on the product and the		tch (P), Length of ferrules

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	46 A
Rated current, max. number of poles (Tu=20°C)	41 A	Rated current, min. number of poles (Tu=40°C)	38 A
Rated current, max. number of poles (Tu=40°C)	37.5 A	Rated voltage for surge voltage class / pollution degree II/2	600 V
Rated voltage for surge voltage class / pollution degree III/2	600 V	Rated voltage for surge voltage class / pollution degree III/3	600 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 400 A
Creepage distance, min.	11.03 mm	Clearance, min.	10.36 mm

### 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)	35 A
Rated current (Use group C / UL 1059)	35 A	Rated current (Use group D / UL 1059)	35 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.		

## **Packing**

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	54.00 mm

## Type tests

1,400,10010			
Test: Durability of markings	Standard	IEC 61984 section 7.3.2 / 10.08 Taking patter from IEC 60068-2-70 / 12.95	
	Test	mark of origin, type identification, pitch, durability	
	Evaluation	available	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, D EN 60947-1 section 8.2.4.5.1 / 04.08	
	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 H07V-K6 and conductor cross-section	
		Type of conductor H07V-K10 and conductor cross-section	

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		Type of conductor AWG 24/1
		section
		Type of conductor AWG 24/19 and conductor cross-section
		Type of conductor AWG 8/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
oosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	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
	Evaluation	passed
	Requirement	1.4 kg
	Conductor type	Type of conductor H07V-K6 and conductor cross-section
	Evaluation	passed
	Requirement	2.0 kg
	Conductor type	Type of conductor H07V-U10 and conductor cross-section
		Type of conductor AWG 8/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
	Evaluation	passed
	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
	Evaluation	passed
	Requirement	≥80 N
	Conductor type	Type of conductor H07V-K6 and conductor cross-section
	Conductor type  Evaluation	and conductor cross-





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# **Technical data**

Conductor type	Type of conductor and conductor cross-section	H07V-K10
	Type of conductor and conductor cross-section	AWG 8/19
Evaluation	passed	

## Important note

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	<ul> <li>Additional variants on request</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>P on drawing = pitch</li> <li>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.</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

### 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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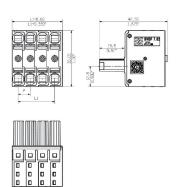
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# **Drawings**

## **Product image**

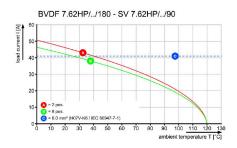


## **Dimensional drawing**



Similar to illustration

## **Derating curve**



#### **Product benefits**



### **Product benefits**



### **Product benefits**





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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/07/180G 3.5SN...
 Version

 Order No.
 1930650000
 PCB plug-in connector, male header, closed side, THT solder

 GTIN (EAN)
 4032248580620
 connection, 7.62 mm, Number of poles: 7, 180°, Solder pin length (I):

 Qty.
 30 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**

 Type
 SV 7.62HP/07/270G 3.5SN...
 Version

 Order No.
 1931310000
 PCB plug-in connector, male header, closed side, THT solder

 GTIN (EAN)
 4032248580347
 connection, 7.62 mm, Number of poles: 7, 270°, Solder pin length (I):

 Qty.
 30 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**

Туре	SV 7.62HP/07/90G 3.5SN	Version
Order No.	<u>1930320000</u>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248580194	connection, 7.62 mm, Number of poles: 7, 90°, Solder pin length (I):
Qty.	30 ST	3.5 mm, tinned, black, 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**

	- · · J · · · ·	
Туре	SVZ 7.62HP/07/180G SN B	Version
Order No.	<u>1931680000</u>	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 7,
GTIN (EAN)	4032248581672	180°, Clamping yoke connection, Clamping range, max. : 6 mm², Box
Qty.	25 ST	