



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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High-performance female 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 operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against faulty wiring, 4-point contact. Suitable for labelling.

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, Clamping yoke connec- tion, Clamping range, max. : 10 mm², Box
Order No.	<u>1543010000</u>
Туре	BVZ 7.62HP/04/180MF3 SN BK BX
GTIN (EAN)	4050118347906
Qty.	32 items
Product data	IEC: 1000 V / 57 A / 0.2 - 10 mm ² UL: 600 V / 40.5 A
Packaging	Вох





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Technical data

Approvals	c FL *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	43.2 mm	Depth (inches)	1.7008 inch
Height	23.1 mm	Height (inches)	0.9094 inch
Width	38.1 mm	Width (inches)	1.5 inch
Net weight	23.24 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	Type of connection	Field connection
	BV/SV 7.62HP		
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	4	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm²
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	16.5 N
Pulling force/pole, max.	11 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	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.	100 °C

Conductors suitable for connection

Clamping range, min.	0.2 mm ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG,	AWG 24
min.	
Wire connection cross section AWG,	AWG 8
max.	
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	6 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²

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Flexible, max. H05(07) V-K	10 mm ²		
v. plastic collar ferrule, DIN 46228	8 pt 4, 0.2 mm ²		
nin. v. plastic collar ferrule, DIN 46228	9 n+ 1 6 mm ²		
nax.	5 pt 4, 6 mm-		
v. wire end ferrule, DIN 46228 pt nin.	1, 0.5 mm ²		
v. wire end ferrule, DIN 46228 pt nax.	1, 6 mm ²		
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	H0,5/18 OR
	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 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	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	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	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 14 mm
		Recommended wire- end ferrule	H6,0/20 SW
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H6,0/12
eference text	The outside diameter of the plastic collar sho		:. I (D) I (f

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Technical data

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)	54 A	Rated current, min. number of poles (Tu=40°C)	51 A
Rated current, max. number of poles (Tu=40°C)	41 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	6000 V	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.	13.8 mm	Clearance, min.	10.2 mm

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)	40.5 A
Rated current (Use group C / CSA)	40.5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

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 voltage (Use group F / UL 1059)	1000 V
Rated current (Use group B / UL 1059)	40.5 A	Rated current (Use group C / UL 1059)	40.5 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group F / UL 1059)	40.5 A
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	44.00 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, type of material
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 512 part 7 section 5 / 05.94
	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 / 12.02
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section

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Technical data

		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 10/1 and conductor cross-section
		Type of conductor AWG 10/19 and conductor cross-section
	Evaluation	passed
st for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
osening 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 solid 0.5 mm ² and conductor cross-section
		Type of conductor stranded 0.5 mm ² and conductor cross-section
	Evaluation	passed
	Requirement	1.4 kg
	Conductor type	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 10/1 and conductor cross-section
		Type of conductor AWG 10/19 and conductor cross-section
	Evaluation	passed
ll-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	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
	F:	
	Evaluation	passed





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Technical data

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	
Evaluation	passed	
Requirement	≥80 N	
Conductor type	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 10/1 and conductor cross-section	
	Type of conductor AWG 10/19 and conductor cross-section	
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
- 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
- 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 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



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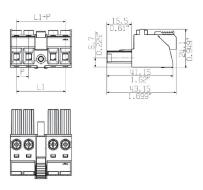
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Drawings

Product image



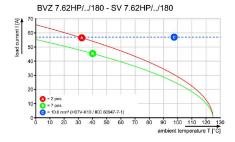
Dimensional drawing

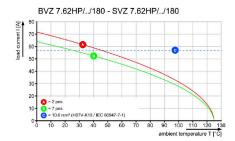


Similar to illustration

Graph

Graph







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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 RD 2022	Version
Order No.	2007300000	PCB plug-in connector, Accessories, Coding element, red, Number of
GTIN (EAN)	4050118392715	poles: 1
Qty.	20 ST	

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

Туре	SDS 0.8X4.5X125	Version
Order No.	9009020000	Screwdriver, Screwdriver
GTIN (EAN)	4032248266883	
Qty.	1 ST	
Туре	SDIS 0.8X4.0X100	Version
Type Order No.	SDIS 0.8X4.0X100 9008400000	Version Screwdriver, Screwdriver

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Accessories

Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

General ordering data

Туре	SDK PH1	Version
Order No.	9008480000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056477	
Qty.	1 ST	
Туре	SDIK PH1	Version
Type Order No.	SDIK PH1 9008570000	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	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 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/04/180MF3 3.5...
 Version

 Order No.
 1048530000
 PCB plug-in connector, male header, closed side, Middle flange, THT

 GTIN (EAN)
 4032248786497
 solder connection, 7.62 mm, Number of poles: 4, 180°, Solder pin

 Qty.
 48 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/04/270MF3 3.5... Version

Order No. 1048550000 PCB plug-in connector, male header, closed side, Middle flange, THT

GTIN (EAN) 4032248786473 solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin

Qty. 48 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/04/90MF3 3.5S	Version
Order No.	<u>1048570000</u>	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4032248786459	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	48 ST	length (I): 3.5 mm, tinned, black, Box