



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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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: 2, 180°, PUSH IN without actu- ator, Tension-clamp connection, Clamping range, max.: 10 mm², Box
Order No.	<u>1060440000</u>
Туре	BVF 7.62HP/02/180F SN BK BX
GTIN (EAN)	4032248810086
Qty.	50 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	13.6 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	2	L1 in mm	7.62 mm
L1 in inches	0.300 "	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

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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	
	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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180° turned with coding elements

passed

Technical data

			Recommended wire end ferrule	- H10,0/12
Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrule 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. r (Tu=20°C)	number of poles	57 A
Rated current, max. number of poles (Tu=20°C)	51 A	Rated current, min. r (Tu=40°C)		57 A
Rated current, max. number of poles (Tu=40°C)	45 A	Rated voltage for sur pollution degree II/2		1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for sur pollution degree III/3		800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage class/ pollution degree		8 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand	d 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 o		
Rated voltage (Use group B / CSA)	600 V		<u> </u>	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use g		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, A	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. (cUR		E60693
Rated voltage (Use group B / UL 1059)		Rated voltage (Use g		600 V
Rated voltage (Use group D / UL 1059)		Rated current (Use g		39 A
Rated current (Use group C / UL 1059)	39 A	Rated current (Use group D / UL 1059) 5 A		5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, A	AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.			_
Packing				
Packaging	Box	VPE length		353.00 mm
VPE width	136.00 mm	VPE height		61.00 mm
Type tests				
Tests Durchility of markings	Standard	5	UN EN 61004 aa -+:-	on 7.2.2 / 00.02 taking
Test: Durability of markings		DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96		60068-2-70 / 07.96
	Test	mark of origin, type identification, pitch		
	Evaluation	available		
	Test	d	urability	
	Evaluation	p	assed	
Test: Misengagement (Non- interchangeability)	Standard	D		on 6.3 and 6.9.1 / 09.02, / 11.08
3 ,,	Test		80° turned with coo	

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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 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		
	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

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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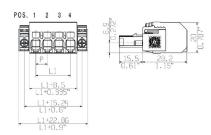
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Drawings

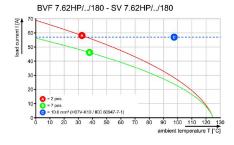
Product image

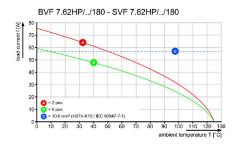


Dimensional drawing

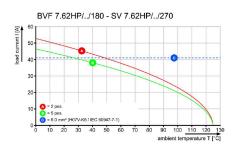


Graph Graph





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.	<u>1937590000</u>
GTIN (EAN)	4032248608881
Qtv.	50 ST

Version

PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1

5000001 OIP

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

Qty.

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



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Counterpart

SV 7.62HP 180F 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/02/180F 3.5SN...
 Version

 Order No.
 1930710000
 PCB plug-in connector, male header, Clip-on flange, THT solder

 GTIN (EAN)
 4032248580682
 connection, 7.62 mm, Number of poles: 2, 180°, Solder pin length (I):

 Oty.
 60 ST
 3.5 mm, tinned, black, Box

SV 7.62HP 270F 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/02/270F 3.5SN... Version
Order No. 1931370000 PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN) 4032248580408 connection, 7.62 mm, Number of poles: 2, 270°, Solder pin length (I):
Oty. 60 ST 3.5 mm, tinned, black, Box

SV 7.62HP 90F 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

Creation date 30.11.2025 08:10:23 MEZ

Туре	SV 7.62HP/02/90F 3.5SN	Version
Order No.	<u>1930380000</u>	PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN)	4032248580255	connection, 7.62 mm, Number of poles: 2, 90°, Solder pin length (I):
Qty.	60 ST	3.5 mm, tinned, black, Box



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Counterpart

SVD 7.62HP 270F 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

 Type
 SVD 7.62HP/04/270F 3.2S...
 Version

 Order No.
 1523940000
 PCB plug-in connector, male header, Clip-on flange, THT solder

 GTIN (EAN)
 4050118329810
 connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (I):

 Qty.
 33 ST
 3.2 mm, tinned, black, Box

SV-SMT 7.62HP 270F 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/02/270F 2	Version
Order No.	<u>2499540000</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118513325	connection, 7.62 mm, Number of poles: 2, 270°, Solder pin length (I):
Qty.	50 ST	2.6 mm, tinned, black, Box
Туре	SV-SMT 7.62HP/02/270F 3	Version
Order No.	<u>2498780000</u>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118511581	connection 7.62 ppm Number of polecy 2.270° Colder pip length //\
GIIN (EAN)	4000110011001	connection, 7.62 mm, Number of poles: 2, 270°, Solder pin length (I):

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Counterpart

SV-SMT 7.62HP 90F BX



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General ordering data

	•	
Туре	SV-SMT 7.62HP/02/90F 2	Version
Order No.	2499520000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118512878	connection, 7.62 mm, Number of poles: 2, 90°, Solder pin length (I):
Qty.	60 ST	2.6 mm, tinned, black, Box
Туре	SV-SMT 7.62HP/02/90F 3	Version
Order No.	2498390000	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118511550	connection, 7.62 mm, Number of poles: 2, 90°, Solder pin length (I):
Qty.	50 ST	3.5 mm, tinned, black, Box