

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image















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180° female plug with energy and signal contacts in PUSH IN wire connection in 7.62 pitch. Fulfils the IEC 61800-5-1 requirement and for the energy contact UL 1059 ClassC 600 V.The self-locking middle flange with automatic interlock reduces the space requirements by one pitch width in comparison with conventional solutions. Optionally also available with addi-

General ordering data

tional mounting screw.

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN with actuator, PUSH IN without actuator, Clamping range, max. : 10 mm², Box
Order No.	<u>2628470000</u>
Туре	BVF 7.62HP/04/180MF3 BCF/08R SN BK BX
GTIN (EAN)	4050118632484
Qty.	25 items
Product data	IEC: 1000 V / 38 A / 0.5 - 10 mm ² UL: 600 V / 35 A / AWG 24 - AWG 8
Packaging	Вох





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Technical data

Approvals

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

Dimensions and weights

Net weight 29.13 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, PUSH IN without actuator	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	4	L1 in mm	30.48 mm
L1 in inches	1.200 "	L2 in mm	11.43 mm
L2 in inch	0.450 "	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
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 ²
Clamping range, max.	10 mm ²
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, max. H07V-R	10 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	10 mm ²
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w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm² min.

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Technical data

r. wire end ferrule, DIN 46228 pt 1, nax. lampable conductor	10 mm ² Cross-section for conductor connection		
	Cross-section for conductor connection		
		Туре	fine-wired
	Cross section for conductor connection	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	Type	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
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm ²
	wire end ferrule	Stripping length Recommended wire-	nominal 12 mm H10,0/12

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.





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Technical data

D - 4I	-1-4-		4-	IFA
Rated	пата	acc.	TΩ	IEC.

	150 00004 4 150 04004		
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	38 A
Rated current, max. number of poles (Tu=20°C)	38 A	Rated current, min. number of poles (Tu=40°C)	34 A
Rated current, max. number of poles (Tu=40°C)	34 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

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

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)	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 -		

Packing

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

Technical data - hybrid

Pitch in mm (Signal)	3.81 mm	Pitch in inches (Signal)	0.15 inch
Number of poles (Signal)	8	L2 in mm	11.43 mm
L2 in inch	0.450 "	Number of rows (Signal)	2
Contact material (Signal)	CuMg	Contact surface (Signal)	tinned
Layer structure of the plug contact (Signal)	1-3 μ Ni / 4-8 μ Sn	Rated voltage for overvoltage class/ pollution severity level II/2 (Signal)	400 V
Rated voltage for overvoltage class/pollution severity level III/2 (Signal)	320 V	Rated voltage for overvoltage class/ pollution severity level III/3 (Signal)	200 V
Rated impulse voltage for overvoltage class/pollution severity level II/2 (Signal	4 kV II)	Rated impulse voltage for overvoltage class/pollution severity level III/2 (Signal)	4 kV
Rated impulse voltage for overvoltage class/pollution severity level III/3 (Signal)	4 kV	Short-time withstand current resistance (Signal)	3 x 1s with 80 A
Rated voltage (Use group B / CSA) (Signal)	300 V	Rated voltage (Use group C / CSA) (Signal)	50 V
Rated voltage (Use group D / CSA) (Signal)	300 V	Rated current (Use group B / CSA) (Signal)	9 A

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Technical data

Rated current (Use group C / CSA) 9 A (Signal)	Rated current (Use group D / CSA) 9 A (Signal)
Wire connection cross-section AWG AWG 24AWG 16 (Signal)	Rated voltage (Use group B / UL 1059] 300 V (Signal)
Rated voltage (Use group C / UL 1059] 50 V (Signal)	Rated voltage (Use group D / UL 1059] 300 V (Signal)
Rated current (Use group B / UL 1059) 5 A (Signal)	Rated current (Use group C / UL 1059) 5 A (Signal)
Rated current (Use group D / UL 1059) 5 A (Signal)	Connector cross-section (Signal) AWG 26AWG 16

Conductors that can be connected - Hybrid

	0.5. 10		0.0 15
Clamping range, rated connection (Power)	0.510 mm ²	Clamping range, rated connection (Signal)	0.21.5 mm ²
Connector cross-section (Power)	AWG 24AWG 8	Connector cross-section AWG (Signal)	AWG 26AWG 16
solid, H05(07) V-U (Power)	0.510 mm ²	solid, H05(07) V-U (Signal)	0.141.5 mm ²
flexible, H05(07) V-K (Power)	0.56 mm ²	flexible, H05(07) V-K (Signal)	0.141.5 mm ²
with wire-end ferrule with collar (Power)	0.56 mm ²	with wire-end ferrule with collar, DIN 46 228/4 (Signal)	0.251.5 mm ²
with wire-end ferrule according to DIN 46 228/1 (Power)	0.56 mm ²	with wire-end ferrule according to DIN 46 228/1 (Signal)	0.251.5 mm ²

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	 Technical specifications refer to the power contacts
	 Technical data of signal contacts: 50V / 5A, stripping length 8mm
	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
	 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	27-46-03-02
ECLASS 15.0	27-46-03-02		

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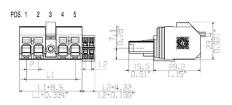
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Drawings

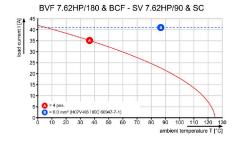
Product image

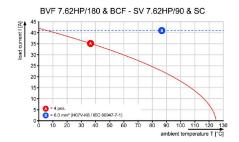


Dimensional drawing



Graph Graph





Product benefits



Single-handed operationAutomatic latching

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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	Version
Order No.	<u>1937590000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4032248608881	of poles: 1
Qty.	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.

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- 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, 0.25mm², 6mm², GTIN (EAN) 4008190165352 Trapezoidal indentation crimp Qty. 1 ST

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Counterpart

SV 7.62HP / SC 3.81 270MF



Combined 270° male header with power and signal contacts incl. self-locking middle flange interlock with a 7.62 pitch.

Enables simultaneous connection of power, signals and (optional) EMC shielding. Ideal for connecting servo and asynchronous drives.

Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V when combined with female header BVF 7.62HP/...BCF..R...

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

The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Optionally on request: without flange fastening, with additional screw mount or with soldered flange fastening.

General ordering data

Type SV 7.62HP/04/270MF3 SC/... Version
Order No. 2628040000 PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN) 4050118631586 solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin
Oty. 30 ST length (I): 3.5 mm, tinned, black, Box

SV 7.62HP / SC 3.81 90MF



Combined 90° male header with power and signal contacts in PUSH IN connection technology incl. self-locking middle flange interlock and (optional) pluggable shield connection with a 7.62 pitch.

Enables simultaneous connection of power, signals and (optional) EMC shielding. Ideal for connecting servo and asynchronous drives.

Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V when combined with female header BVF 7.62HP/...BCF..R...

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

The self-locking middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Optionally on request: without flange fastening, with additional screw mount or with soldered flange fastening.

General ordering data

Type	SV 7.62HP/04/90MF3 SC/0	Version
Order No.	<u>2628220000</u>	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4050118632156	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	30 ST	length (I): 3.5 mm, tinned, black, Box

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Counterpart

SV-SMT 7.62HP / SC 3.81 270 MF



OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

Three functions in one!

The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

This hybrid motor connector simultaneously unites power, signals and pluggable EMC shield support. Thus you save space on the PCB, on the outer side of the housing, and in the electrical cabinet. The self-snapping one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape and slender 30° wire entry enable a space savings of up to 10 cm between rows.

General ordering data

Туре	SV-SMT 7.62HP/04/270MF3	Version
Order No.	<u>2627160000</u>	PCB plug-in connector, male header, closed side, Middle flange, THT/
GTIN (EAN)	4050118631036	THR solder connection, 7.62 mm, Number of poles: 4, 270°, Solder
Qty.	30 ST	pin length (I): 2.6 mm, tinned, black, Box

SV-SMT 7.62HP / SC 3.81 90 MF



OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

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The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

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General ordering data

Туре	SV-SMT 7.62HP/04/90MF3	Version
Order No.	2626920000	PCB plug-in connector, male header, closed side, Middle flange, THT/
GTIN (EAN)	4050118630862	THR solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	30 ST	length (I): 2.6 mm, tinned, black, Box