



Klingenbergstraße 26 D-32758 Detmold Germany

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180° inverted male header with PUSH IN connection technology for field wiring in 6 mm² with 7.62 pitch as "three-flange variant" for housing passage. Suitable for housings with a max. wall thickness of 2 mm. Also perfect as a finger-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1.

#### **General ordering data**

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN without actuator, Tension-clamp connection, Clamping range, max.: 10 mm², Box
Order No.	<u>1427250000</u>
Туре	SVF 7.62HP/04/180SFMF2 SN BK BX
GTIN (EAN)	4050118231335
Qty.	25 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 10
Packaging	Вох







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## **Technical data**

#### **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	F60693

#### **Dimensions and weights**

Depth	47.7 mm	Depth (inches)	1.8779 inch
Height	23.4 mm	Height (inches)	0.9213 inch
Width	53.34 mm	Width (inches)	2.1 inch
Net weight	27.76 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	4	L1 in mm	30.48 mm
L1 in inches	1.200 "	Number of rows	1
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	IP20 plugged	Protection degree	IP20
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	12 mm	Tightening torque for screw flange, min.	0.2 Nm
Tightening torque for screw flange, max	c. 0.3 Nm	Screwdriver blade	0.6 x 3.5
Plugging cycles	25		

#### **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	46 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 <sup>2</sup>
Clamping range, max.	10 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>

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## **Technical data**

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Stranded, min. H07V-R	10 mm²	
Stranded, max. H07V-R	10 mm²	
lexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	
lexible, max. H05(07) V-K	10 mm <sup>2</sup>	
/. plastic collar ferrule, DIN 46228 pt		
nin.	-, 1.0 mm	
v. plastic collar ferrule, DIN 46228 pt	4, 6 mm <sup>2</sup>	
v. wire end ferrule, DIN 46228 pt 1, nin.	1.5 mm <sup>2</sup>	
v. wire end ferrule, DIN 46228 pt 1, nax.	6 mm <sup>2</sup>	
lampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 2.5 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H2,5/12 end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H2,5/19D BL end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 4 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H4.0/20D GR end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 6 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H6,0/12 end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H6,0/20 SW end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 15 mm
		Recommended wire- H1,5/18D SW end ferrule
		Stripping length nominal 12 mm
		Recommended wire- end ferrule

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)	50 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	800 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	8 kV	Short-time withstand current resistance	3 x 1s with 420 A

is to be chosen depending on the product and the rated voltage.

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### **SVF 7.62HP/04/180SFMF2 SN BK BX**

Weidmüller Interface GmbH & Co. KG

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## **Technical data**

Creepage distance, min.	12.7 mm	Clearance, min.	12.7 mm
Rated data acc. to CSA			
Institute (CSA)	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)	36 A
Rated current (Use group C / CSA)	36 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10
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)	39 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### **Packing**

Packaging	Box	VPE length	352.00 mm
VPE width	136.00 mm	VPE height	61.00 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	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.08	
	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 / 04.08	
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 6 mm <sup>2</sup> and conductor cross-section	
		Type of conductor AWG 24/1 and conductor cross-section	

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## **Technical data**

		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		
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00		
osening 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		
ıll-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		
		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	≥80 N		
	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		







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## **Technical data**

	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 without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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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### **SVF 7.62HP/04/180SFMF2 SN BK BX**

#### Weidmüller Interface GmbH & Co. KG

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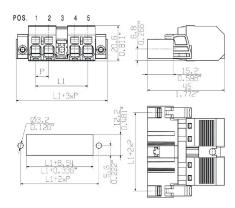
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## **Drawings**

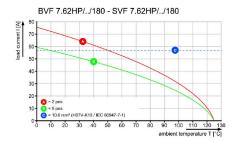
#### **Product image**

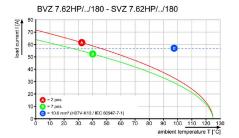


#### **Dimensional drawing**



Graph Graph





#### **SVF 7.62HP/04/180SFMF2 SN BK BX**



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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 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> 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

 GTIN (EAN)
 4008190165352
 Trapezo

Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,

Trapezoidal indentation crimp

#### **Coupling set**

Qty.



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

#### **General ordering data**

Type SVF/BVF 7.62HP COUPLE S... Version

Order No. 1440850000 PCB plug-in connector, Accessories, Mounting block, black

GTIN (EAN) 4050118247060

Qty. 20 ST