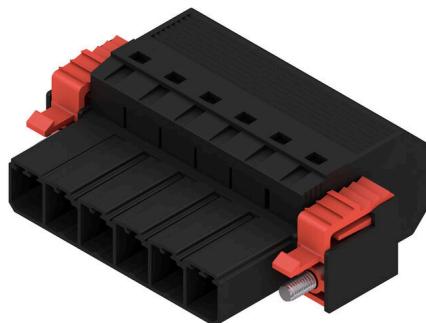


SVF 7.62HP/06/180SFI SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Inverted male header with PUSH-IN connection technology for field wiring with inverted external flanges in 6 mm² with a 7.62 pitch. Also ideal as a touch-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1.

Optionally also available as screwable version and without flange.

General ordering data

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 6, 180°, PUSH IN without actuator, Tension-clamp connection, Clamping range, max. : 10 mm ² , Box
Order No.	1124850000
Type	SVF 7.62HP/06/180SFI SN BK BX
GTIN (EAN)	4032248907069
Qty.	25 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 10
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	44.7 mm
Height	20.6 mm
Width	60.96 mm
Net weight	3 g

Depth (inches)	1.7598 inch
Height (inches)	0.811 inch
Width (inches)	2.4 inch

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	6	L1 in mm	38.10 mm
L1 in inches	1.500 "	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	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.	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	4...6 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	6 mm ²
Stranded, min. H07V-R	10 mm ²
Stranded, max. H07V-R	10 mm ²

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Technical data

Flexible, min. H05(07) V-K 0.5 mm²

Flexible, max. H05(07) V-K 10 mm²

w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm²
min.

w. plastic collar ferrule, DIN 46228 pt 4, 6 mm²
max.

w. wire end ferrule, DIN 46228 pt 1, 1.5 mm²
min.

w. wire end ferrule, DIN 46228 pt 1, 6 mm²
max.

Clampable conductor

Cross-section for conductor connection

Type fine-wired

nominal 2.5 mm²

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

Type fine-wired

nominal 4 mm²

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

Type fine-wired

nominal 6 mm²

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

Type fine-wired

nominal 1.5 mm²

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](#)

Reference text

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.

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
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. 12.7 mm

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Technical data

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	36 A
Wire cross-section, AWG, min.	AWG 24

Rated voltage (Use group C / CSA)	600 V
Rated current (Use group B / CSA)	36 A
Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, max.	AWG 10

Rated data acc. to UL 1059

Institute (cURus)	CURUS
Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group C / UL 1059)	39 A
Wire cross-section, AWG, min.	AWG 24
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (cURus)	E60693
Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	39 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, max.	AWG 10

Packing

Packaging	Box	VPE length	351.00 mm
VPE width	135.00 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 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

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Technical data

Test for damage to and accidental loosening of conductors		Type of conductor and conductor cross-section	AWG 14/19
		Evaluation	passed
		Standard	DIN EN 60999-1 section 9.4 / 12.00
		Requirement	0.3 kg
		Conductor type	Type of conductor and conductor cross-section H05V-U0.5 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	1.4 kg
		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
		Standard	DIN EN 60999-1 section 9.5 / 12.00
Pull-out test		Requirement	≥20 N
		Conductor type	Type of conductor and conductor cross-section H05V-U0.5 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

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Technical data**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 style="list-style-type: none">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 loadLong term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

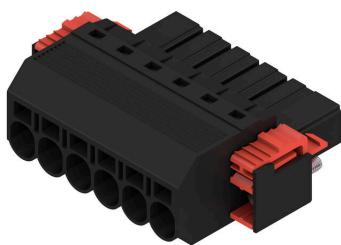
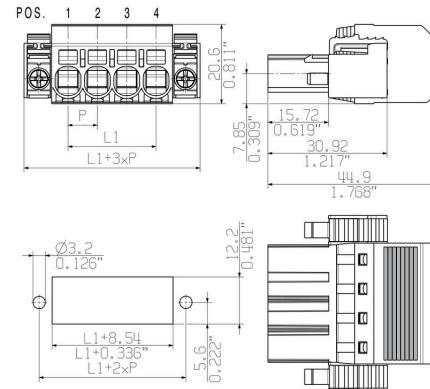
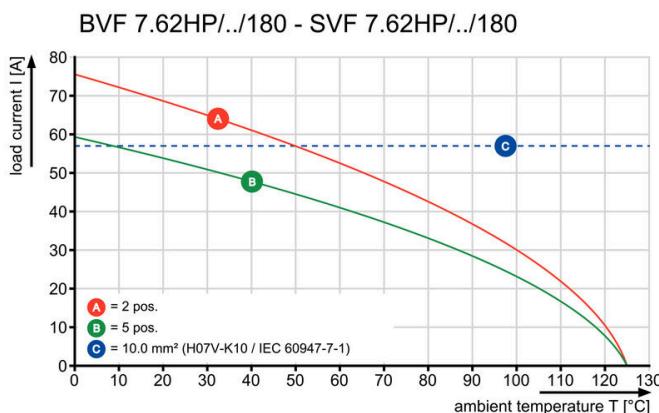
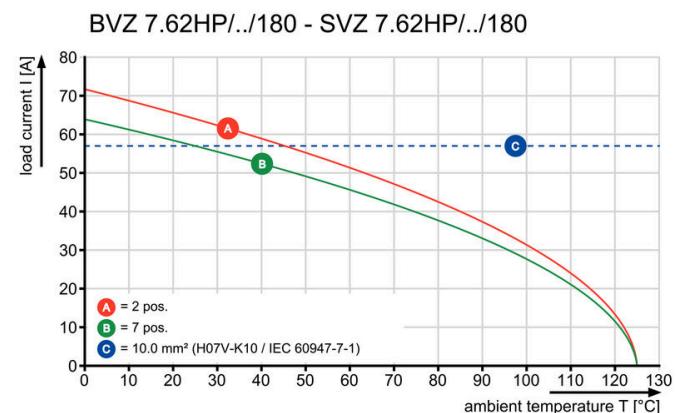
Classifications

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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Drawings**Product image****Dimensional drawing****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

Type	BV/SV 7.62HP KO	Version
Order No.	1937590000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4032248608881	of poles: 1
Qty.	50 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

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

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 tool, Crimping tool for wire-end ferrules, 0.25mm ² , 6mm ² ,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp
Qty.	1 ST	