

SVZ 7.62HP/04/180RSH180C SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

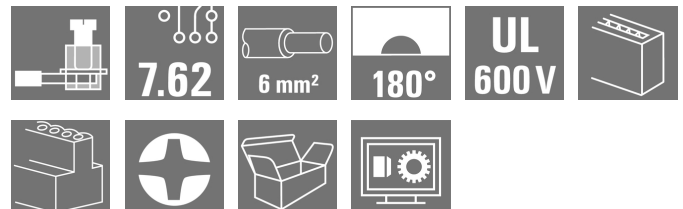
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www.weidmueller.com

Product image



High-performance male 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 connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 6 mm², Box
Order No.	1951160000
Type	SVZ 7.62HP/04/180RSH180C SN BK BX
GTIN (EAN)	4032248630134
Qty.	25 pc(s).
Product data	IEC: 1000 V / 57 A / 0.2 - 10 mm² UL: 600 V / 42 A / AWG 24 - AWG 8
Packaging	Box

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Technical data

Dimensions and weights

Net weight 50.96 g

System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
Number of poles	4	L1 in mm	22.86 mm
L1 in inches	0.9 inch	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
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	12 mm	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

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	UL 94 flammability rating	V-0
Contact base material	Copper alloy	Contact material	Copper 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.	0.2 mm ²
Clamping range, max.	6 mm ²
Wire connection cross section AWG, min.	AWG 22
Wire connection cross section AWG, max.	AWG 8
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	0.5 mm ²
Flexible, max. H05(07) V-K	10 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 6 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.25 mm ² min.	
w. wire end ferrule, DIN 46228 pt 1, 6 mm ² max.	
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm; 2.4 mm

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	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	Type	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	Type	fine-wired	
	nominal	1.5 mm ²	
wire end ferrule	Stripping length	nominal	15 mm
	Recommended wire-end ferrule		H1.5/18D SW
Cross-section for conductor connection	Type	fine-wired	
	nominal	2.5 mm ²	
wire end ferrule	Stripping length	nominal	14 mm
	Recommended wire-end ferrule		H2.5/19D BL
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
Cross-section for conductor connection	Type	fine-wired	
	nominal	6 mm ²	
wire end ferrule	Stripping length	nominal	14 mm
	Recommended wire-end ferrule		H6.0/20 SW
Cross-section for conductor connection	Type	fine-wired	
	nominal	10 mm ²	
wire end ferrule	Stripping length	nominal	16 mm
	Recommended wire-end ferrule		H10.0/20D GR

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.

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57 A

41 A

41 A

1,000 V

800 V

8 kV

3 x 1 s with 420 A

13.8 mm

Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles
(Tu=20°C)

41 A

Rated current, max. number of poles
(Tu=40°C)

41 A

Rated voltage for surge voltage class /
pollution degree III/2

1,000 V

Rated impulse voltage for surge voltage
class/ pollution degree II/2

6 kV

Rated impulse voltage for surge voltage
class/ contamination degree III/3

8 kV

Clearance, min.

13.56 mm

Rated current, min. number of poles
(Tu=20°C)

57 A

Rated current, min. number of poles
(Tu=40°C)

41 A

Rated voltage for surge voltage class /
pollution degree II/2

1,000 V

Rated voltage for surge voltage class /
pollution degree III/3

800 V

Rated impulse voltage for surge voltage
class/ pollution degree III/2

8 kV

Short-time withstand current resistance

3 x 1 s with 420 A

Creepage distance, min.

13.8 mm

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)

35 A

Wire cross-section, AWG, min.

AWG 24

Rated voltage (Use group C / CSA)

600 V

Rated current (Use group B / CSA)

35 A

Rated current (Use group D / CSA)

5 A

Wire cross-section, AWG, max.

AWG 10

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

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)

42 A

Wire cross-section, AWG, min.

AWG 24

Reference to approval values

Specifications are
maximum values, details -
see approval certificate.

Rated voltage (Use group C / UL 1059)

600 V

Rated current (Use group B / UL 1059)

42 A

Rated current (Use group D / UL 1059)

5 A

Wire cross-section, AWG, max.

AWG 8

Packing

Packaging

Box

VPE length

260 mm

VPE width

159 mm

VPE height

81 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 EN 60512-13-5 / 11.08

Test

180° turned with coding elements

Evaluation

passed

Test

180° turned without coding elements

Evaluation

passed

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DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 2.4.5 / 12.02

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Technical data

Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 2.4.5 / 12.02	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm ²
		Type of conductor and conductor cross-section	stranded 0.5 mm ²
		Type of conductor and conductor cross-section	solid 6 mm ²
		Type of conductor and conductor cross-section	stranded 6 mm ²
		Type of conductor and conductor cross-section	AWG 24/1
		Type of conductor and conductor cross-section	AWG 24/19
		Type of conductor and conductor cross-section	AWG 10/1
		Type of conductor and conductor cross-section	AWG 10/19
	Evaluation	passed	
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 24/1
		Type of conductor and conductor cross-section	AWG 24/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm ²
		Type of conductor and conductor cross-section	stranded 0.5 mm ²
	Evaluation	passed	
	Requirement	1.4 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 6 mm ²
		Type of conductor and conductor cross-section	stranded 6 mm ²
		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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DIN EN 60999-1 section 9.5 / 12.00

≥10 N info@weidmueller.com

Type of conductor and conductor cross-section AWG 24/1

Type of conductor and conductor cross-section AWG 24/19

passed

≥20 N

Type of conductor and conductor cross-section solid 0.5 mm²

Type of conductor and conductor cross-section stranded 0.5 mm²

passed

≥80 N

Type of conductor and conductor cross-section solid 6 mm²

Type of conductor and conductor cross-section stranded 6 mm²

Type of conductor and conductor cross-section AWG 10/1

Type of conductor and conductor cross-section AWG 10/19

passed

Pull-out test

Standard

Requirement

Conductor type

Evaluation

Requirement

Conductor type

Evaluation

Requirement

Conductor type

Evaluation

Classifications

ETIM 6.0

EC002638

ETIM 7.0

EC002638

ETIM 8.0

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

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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

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Approvals



UL File Number Search	UL Website
Certificate No. (cULRus)	E60693

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	QR-Code product handling video
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL HEATING ELECTRIC EN FL APPL. INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN

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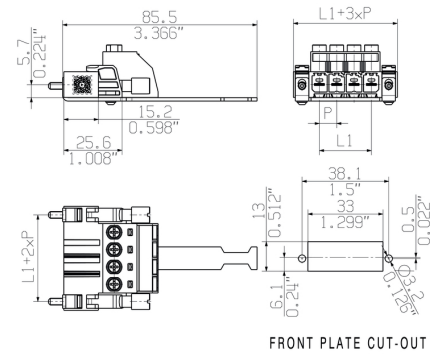
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Drawings

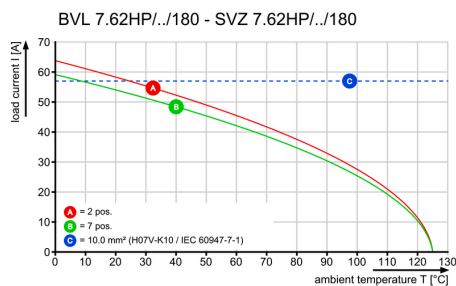
Product image



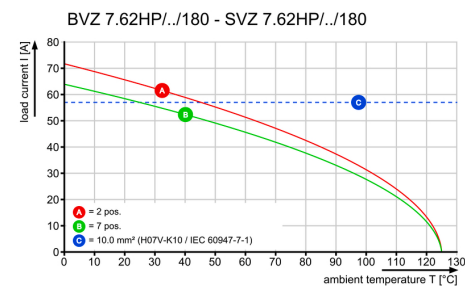
Dimensional drawing



Graph



Graph



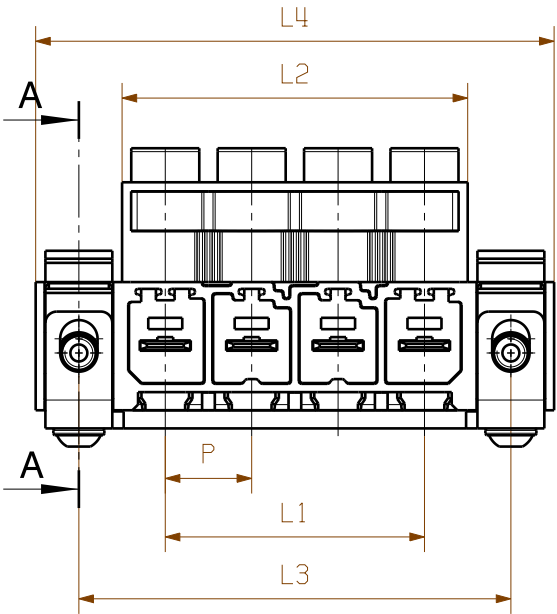
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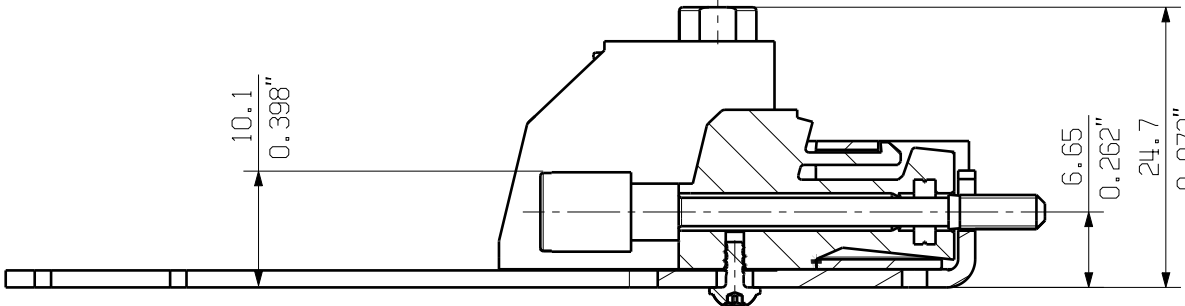
MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE
DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

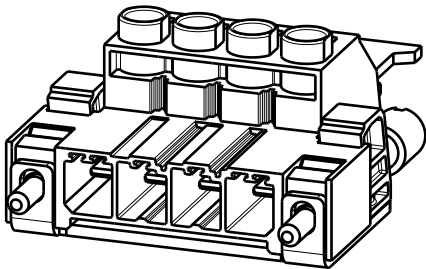
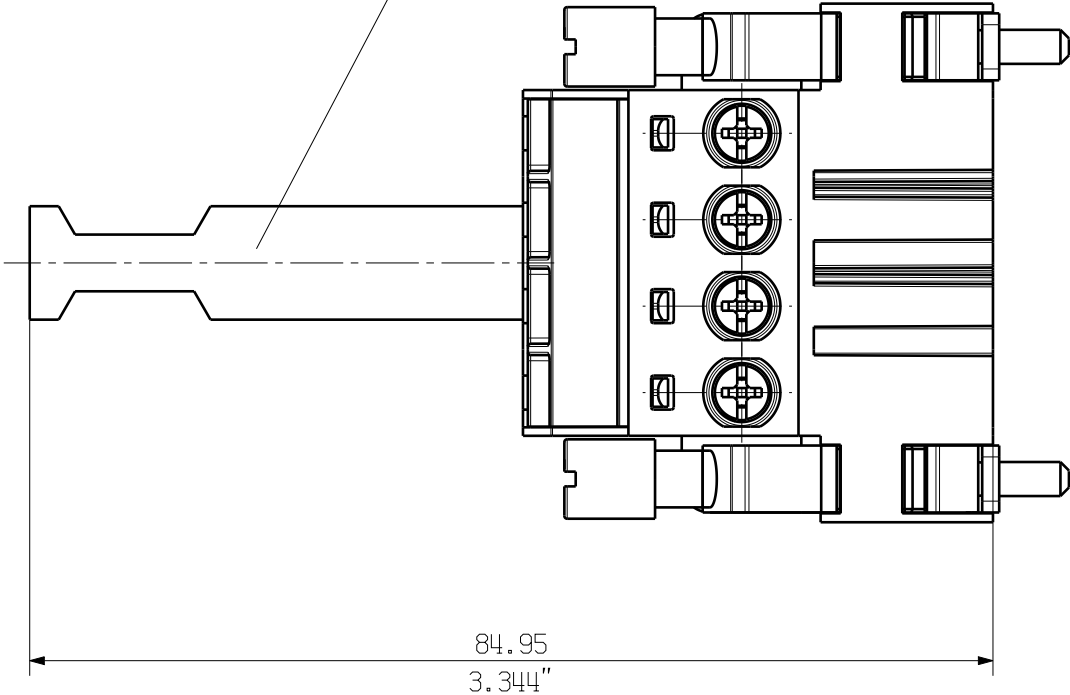
SVZ 7.62HP/...SH180C



A-A



SVZ 7.62HP/.../SH180C



SVZ 7.62HP/...SH180C

For the mounting on PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements.
The neccessary creepage and clearance paths must be observed in connction with the respective applicant in accordance to VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application.
Provided that the connectors are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

6	38,10	1,50	45,72	1,80	53,34	2,10	60,96	2,40
5	30,48	1,20	38,10	1,50	45,72	1,80	53,34	2,10
4	22,86	0,90	30,48	1,20	38,10	1,50	45,72	1,80
3	15,24	0,60	22,86	0,90	30,48	1,20	38,10	1,50
n	L1 (mm)	L1 (Inch)	L2 (mm)	L2 (Inch)	L3 (mm)	L3 (Inch)	L4 (mm)	L4 (Inch)

DIN ISO 2768-m

83550/4
07.09.15 KRUG_M01

MODIFICATION

DRAWN	05.12.2007	HELIS_MA
RESPONSIBLE		KRUG_M
CHECKED	17.09.2015	HERTEL_S
APPROVED		LANG_T

CAT.NO.: .

Weidmüller

C 42969

04

DRAWING NO.

ISSUE NO.

SHEET 01

OF 02

SHEETS

SVZ 7.62 HP/.../SHC

STIFTLISTE MIT SCHIRMAUFLAGE

PIN HEADER WITH SHIELD CONNECTION

PRODUCT FILE: SV/BVZ 7.62 HP

7340