

**SVD 7.62HP/10/270F 3.2SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

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**

Version	PCB plug-in connector, male header, Clip-on flange, THT solder connection, 7.62 mm, Number of poles: 10, 270°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	<a href="#">1523980000</a>
Type	SVD 7.62HP/10/270F 3.2SN BK BX
GTIN (EAN)	4050118329759
Qty.	18 pc(s).
Product data	IEC: 1000 V / 47 A UL: 300 V / 30 A
Packaging	Box

Creation date May 19, 2024 4:14:53 PM CEST

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**Technical data****Dimensions and weights**

Depth	48.9 mm	Depth (inches)	1.925 inch
Height	41.9 mm	Height (inches)	1.65 inch
Height of lowest version	38.7 mm	Width	91.44 mm
Width (inches)	3.6 inch	Net weight	51 g

**System specifications**

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 "	Outgoing elbow	270°
Number of poles	10	Number of solder pins per pole	3
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.8 x 1.0 mm	Solder pin dimensions = d tolerance	+0.1 / -0.1 mm
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance (D)+	0.1 mm
L1 in mm	30.48 mm	L1 in inches	1.2 "
Number of rows	2	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	Touch-safe above the printed circuit board	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20, when fully mounted	Volume resistance	≤2 mΩ
Can be coded	Yes	Plugging cycles	25

**Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Tinning type	matt	Layer structure of solder connection	1...3 µm Ni / 4...8 µm Sn matt
Layer structure of plug contact	4...8 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	47 A
Rated current, max. number of poles (Tu=20°C)	47 A	Rated current, min. number of poles (Tu=40°C)	42 A
Rated current, max. number of poles (Tu=40°C)	42 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	630 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1 s mit 192 A
Clearance, min.	6.9 mm	Creepage distance, min.	9.6 mm

**Rated data acc. to CSA**

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	25 A
Rated current (Use group C / CSA)	25 A	Rated current (Use group D / CSA)	5 A

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## Technical data

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group C / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 600 V

Rated current (Use group B / UL 1059) 30 A

Rated current (Use group C / UL 1059) 30 A

Rated current (Use group D / UL 1059) 5 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

## Packing

Packaging

Box

VPE length

353 mm

VPE width

135 mm

VPE height

60 mm

## Classifications

ETIM 6.0

EC002637

ETIM 7.0

EC002637

ETIM 8.0

EC002637

ETIM 9.0

EC002637

ECLASS 9.0

27-44-04-02

ECLASS 9.1

27-44-04-02

ECLASS 10.0

27-44-04-02

ECLASS 11.0

27-46-02-01

ECLASS 12.0

27-46-02-01

ECLASS 13.0

27-46-02-01

## 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.
- 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

## Approvals

Approvals



ROHS

Conform

UL File Number Search

UL Website

Certificate No. (cURus)

E60693

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# Technical data

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL DRIVES EN</a>
	<a href="#">MB DEVICE MANUF. EN</a>
	<a href="#">FL DRIVES DE</a>
	<a href="#">FL HEATING ELECTR EN</a>
	<a href="#">FL APPL INVERTER EN</a>
	<a href="#">FL BASE STATION EN</a>
	<a href="#">FL ELEVATOR EN</a>
	<a href="#">FL POWER SUPPLY EN</a>
	<a href="#">FL 72H SAMPLE SER EN</a>
	<a href="#">PO OMNIMATE EN</a>

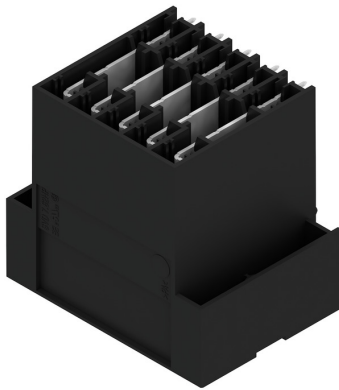
## SVD 7.62HP/10/270F 3.2SN BK BX

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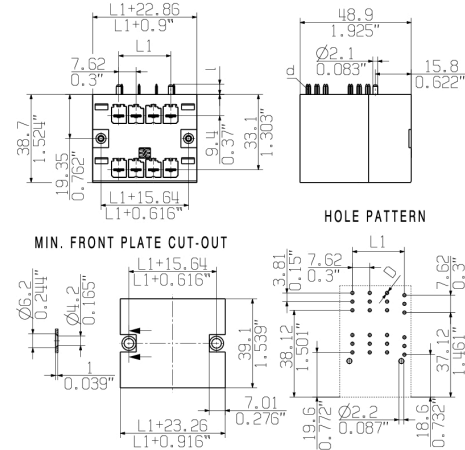
www.weidmueller.com

## Drawings

## Product image

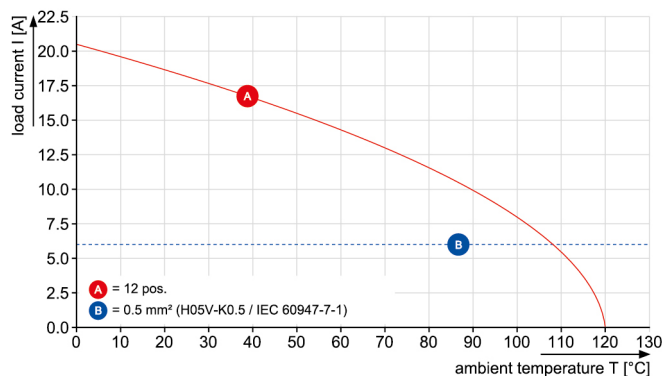


## Dimensional drawing



## Graph

BVZ 7.62HP/..180 - SVD 7.62HP/..270



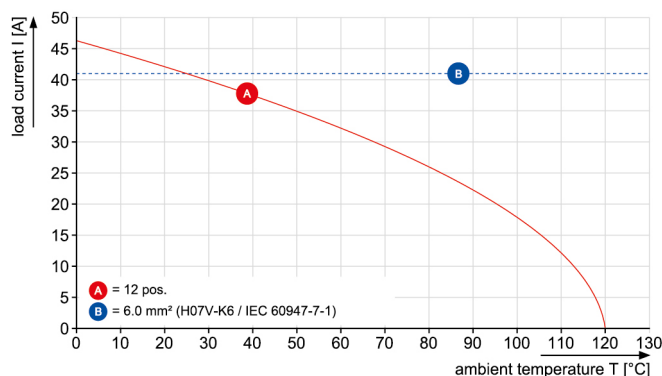
## Graph

BVZ 7.62HP/..180 - SVD 7.62HP/..270



## Graph

BVZ 7.62HP/..180 - SVD 7.62HP/..270



High component density  
 Small and compact pitch

## Product benefits



High component density  
 Small and compact pitch

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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

## General ordering data

Type	BV/SV 7.62HP KO	Version	Product data	Packaging
Order No.	<a href="#">1937590000</a>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248608881	of poles: 1		
Qty.	50 pc(s).			

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## Drawings

### Product benefits



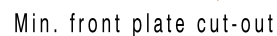
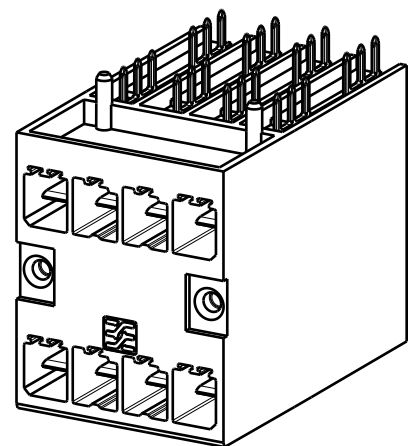
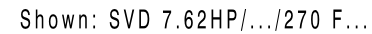
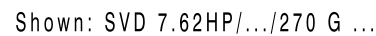
High component density  
Small and compact pitch

### Product benefits






Space-saving power male header  
Through PUSH IN connection system

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Technical drawing of a 4x4 grid of holes on a plate. The drawing shows a 4x4 grid of holes with dimensions in inches. The overall width is 38.12 inches and the overall height is 37.12 inches. The distance between the center of the first and last hole in each row is 36.0 inches. The distance between the center of the first and last hole in each column is 36.0 inches. The distance from the center of the first hole to the edge of the plate is 1.56 inches. The distance from the center of the last hole to the edge of the plate is 1.56 inches. The diameter of each hole is 0.315 inches. The thickness of the plate is 0.125 inches. The drawing includes a section line 'L1' and a section view 'A-A'.

General tolerance: DIN ISO 2768-mK 	106919/0 02.08.18 HELIS_MA 00		<b>Weidmüller</b> 	Cat.no.: .	
	Modification			<b>3 59413</b> <b>08</b> Drawing no. Issue no. Sheet 03 of 06 sheets	
	Date	Name	<b>SVD 7.62HP/.../270...</b> STIFTELSTE MALE HEADER		
	Drawn	18.09.2014			
Responsible		WRIGHT_ST			
Scale: 1/1	Checked	03.08.2018 HELIS_MA			
Supersedes: .	Approved	NOLTE S	Product file: SVD 7.62HP 7400		



## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.