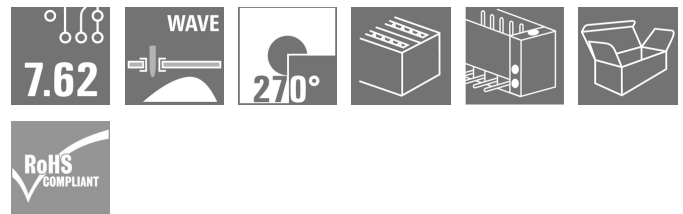


SVD 7.62HP/06/270F 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

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: 6, 270°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	1523950000
Type	SVD 7.62HP/06/270F 3.2SN BK BX
GTIN (EAN)	4050118329575
Qty.	24 pc(s).
Product data	IEC: 1000 V / 47 A UL: 300 V / 30 A
Packaging	Box

Creation date July 22, 2024 7:34:45 PM CEST

SVD 7.62HP/06/270F 3.2SN BK BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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	60.96 mm
Width (inches)	2.4 inch	Net weight	31.8 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	6	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	15.24 mm	L1 in inches	0.6 "
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

Creation date July 22, 2024 7:34:45 PM CEST

SVD 7.62HP/06/270F 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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	352 mm
VPE width	136 mm	VPE height	62 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

Environmental Product Compliance

REACH SVHC

/

RoHS Compliance Status

Compliant without exemption

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

SVD 7.62HP/06/270F 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****Approvals**

Approvals



ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E60693

DownloadsApproval/Certificate/Document of Con-
formity[Declaration of the Manufacturer](#)

Engineering Data

[CAD data – STEP](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

[FL DRIVES EN](#)
[MB DEVICE MANUF. EN](#)
[FL DRIVES DE](#)
[FL HEATING ELECTR EN](#)
[FL APPL INVERTER EN](#)
[FL BASE STATION EN](#)
[FL ELEVATOR EN](#)
[FL POWER SUPPLY EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

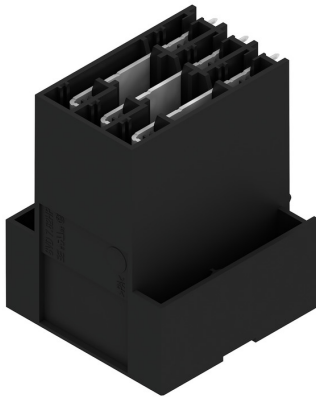
SVD 7.62HP/06/270F 3.2SN BK BX

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

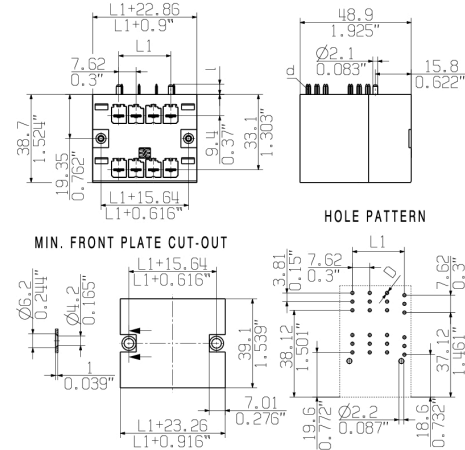
www.weidmueller.com

Drawings

Product image

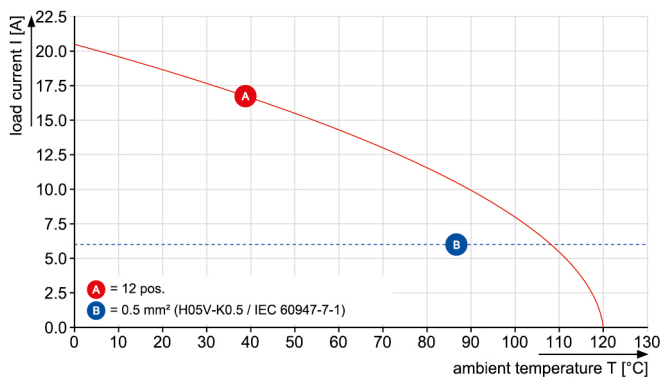


Dimensional drawing



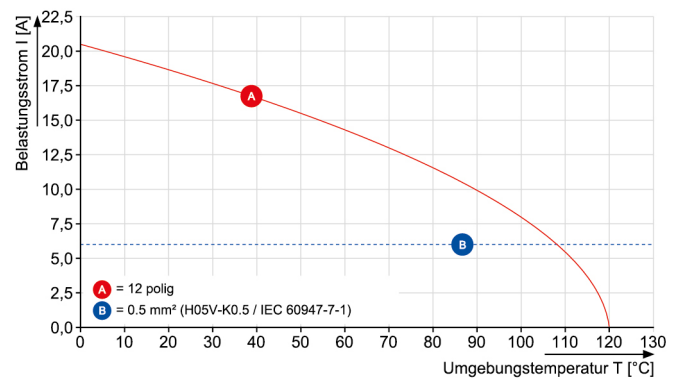
Graph

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



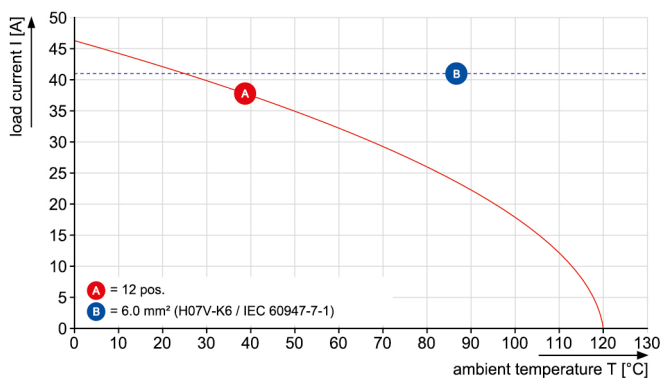
Graph

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

SVD 7.62HP/06/270F 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**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

General ordering data

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

SVD 7.62HP/06/270F 3.2SN BK BX

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

www.weidmueller.com

Drawings

Product benefits



High component density
Small and compact pitch

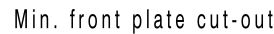
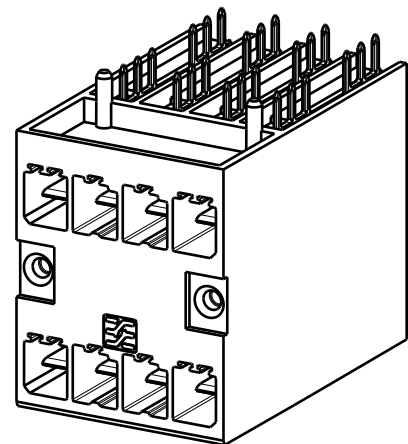
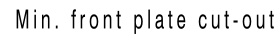
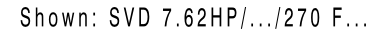
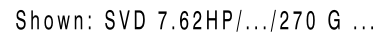
Product benefits



Space-saving power male header
Through PUSH IN connection system

The reproduction, distribution and utilization of this document as well as the communication of its contents to others without explicit authorization is prohibited. Offenders will be held liable for the payment of damages. Weidmueller exclusively reserves the right to file for patents, utility models or designs.

© Weidmueller Interface GmbH & Co. KG



Technical drawing of a 4x4 array of circular features (vias or holes) on a rectangular substrate. The drawing includes dimensions in inches and millimeters.

Vertical Dimensions (Left Side):

- Total height: 38.12" (1.501")
- Distance from top edge to first row of features: 7.62" (0.3")
- Distance between rows of features: 0.732" (0.3")
- Distance from bottom row of features to bottom edge: 19.6" (0.772")

Horizontal Dimensions (Bottom):




- Total width: 1.461"
- Distance from left edge to first column of features: 1.33" (0.053")
- Distance between columns of features: 0.622" (0.087")
- Distance from last column of features to right edge: 15.8" (0.622")

Feature Dimensions:

- Feature diameter: $\varnothing 2.2$ (0.087")

Other Dimensions:

- Distance from top edge to second row of features: 18.6" (0.732")
- Distance from top edge to third row of features: 3.81" (0.15")
- Distance from top edge to fourth row of features: 7.62" (0.3")
- Distance from top edge to fifth row of features: 3.81" (0.15")
- Distance from top edge to sixth row of features: 7.62" (0.3")
- Distance from top edge to seventh row of features: 3.81" (0.15")
- Distance from top edge to eighth row of features: 7.62" (0.3")
- Distance from top edge to ninth row of features: 3.81" (0.15")
- Distance from top edge to tenth row of features: 7.62" (0.3")
- Distance from top edge to eleventh row of features: 3.81" (0.15")
- Distance from top edge to twelfth row of features: 7.62" (0.3")
- Distance from top edge to thirteenth row of features: 3.81" (0.15")
- Distance from top edge to fourteenth row of features: 7.62" (0.3")
- Distance from top edge to fifteenth row of features: 3.81" (0.15")
- Distance from top edge to sixteenth row of features: 7.62" (0.3")
- Distance from top edge to seventeenth row of features: 3.81" (0.15")
- Distance from top edge to eighteenth row of features: 7.62" (0.3")
- Distance from top edge to nineteenth row of features: 3.81" (0.15")
- Distance from top edge to twentieth row of features: 7.62" (0.3")
- Distance from top edge to twenty-first row of features: 3.81" (0.15")
- Distance from top edge to twenty-second row of features: 7.62" (0.3")
- Distance from top edge to twenty-third row of features: 3.81" (0.15")
- Distance from top edge to twenty-fourth row of features: 7.62" (0.3")
- Distance from top edge to twenty-fifth row of features: 3.81" (0.15")
- Distance from top edge to twenty-sixth row of features: 7.62" (0.3")
- Distance from top edge to twenty-seventh row of features: 3.81" (0.15")
- Distance from top edge to twenty-eighth row of features: 7.62" (0.3")
- Distance from top edge to twenty-ninth row of features: 3.81" (0.15")
- Distance from top edge to thirtieth row of features: 7.62" (0.3")
- Distance from top edge to thirty-first row of features: 3.81" (0.15")
- Distance from top edge to thirty-second row of features: 7.62" (0.3")
- Distance from top edge to thirty-third row of features: 3.81" (0.15")
- Distance from top edge to thirty-fourth row of features: 7.62" (0.3")
- Distance from top edge to thirty-fifth row of features: 3.81" (0.15")
- Distance from top edge to thirty-sixth row of features: 7.62" (0.3")
- Distance from top edge to thirty-seventh row of features: 3.81" (0.15")
- Distance from top edge to thirty-eighth row of features: 7.62" (0.3")
- Distance from top edge to thirty-ninth row of features: 3.81" (0.15")
- Distance from top edge to fortieth row of features: 7.62" (0.3")
- Distance from top edge to forty-first row of features: 3.81" (0.15")
- Distance from top edge to forty-second row of features: 7.62" (0.3")
- Distance from top edge to forty-third row of features: 3.81" (0.15")
- Distance from top edge to forty-fourth row of features: 7.62" (0.3")
- Distance from top edge to forty-fifth row of features: 3.81" (0.15")
- Distance from top edge to forty-sixth row of features: 7.62" (0.3")
- Distance from top edge to forty-seventh row of features: 3.81" (0.15")
- Distance from top edge to forty-eighth row of features: 7.62" (0.3")
- Distance from top edge to forty-ninth row of features: 3.81" (0.15")
- Distance from top edge to fiftieth row of features: 7.62" (0.3")
- Distance from top edge to fifty-first row of features: 3.81" (0.15")
- Distance from top edge to fifty-second row of features: 7.62" (0.3")
- Distance from top edge to fifty-third row of features: 3.81" (0.15")
- Distance from top edge to fifty-fourth row of features: 7.62" (0.3")
- Distance from top edge to fifty-fifth row of features: 3.81" (0.15")
- Distance from top edge to fifty-sixth row of features: 7.62" (0.3")
- Distance from top edge to fifty-seventh row of features: 3.81" (0.15")
- Distance from top edge to fifty-eighth row of features: 7.62" (0.3")
- Distance from top edge to fifty-ninth row of features: 3.81" (0.15")
- Distance from top edge to sixtieth row of features: 7.62" (0.3")
- Distance from top edge to sixty-first row of features: 3.81" (0.15")
- Distance from top edge to sixty-second row of features: 7.62" (0.3")
- Distance from top edge to sixty-third row of features: 3.81" (0.15")
- Distance from top edge to sixty-fourth row of features: 7.62" (0.3")
- Distance from top edge to sixty-fifth row of features: 3.81" (0.15")
- Distance from top edge to sixty-sixth row of features: 7.62" (0.3")
- Distance from top edge to sixty-seventh row of features: 3.81" (0.15")
- Distance from top edge to sixty-eighth row of features: 7.62" (0.3")
- Distance from top edge to sixty-ninth row of features: 3.81" (0.15")
- Distance from top edge to seventieth row of features: 7.62" (0.3")
- Distance from top edge to seventy-first row of features: 3.81" (0.15")
- Distance from top edge to seventy-second row of features: 7.62" (0.3")
- Distance from top edge to seventy-third row of features: 3.81" (0.15")
- Distance from top edge to seventy-fourth row of features: 7.62" (0.3")
- Distance from top edge to seventy-fifth row of features: 3.81" (0.15")
- Distance from top edge to seventy-sixth row of features: 7.62" (0.3")
- Distance from top edge to seventy-seventh row of features: 3.81" (0.15")
- Distance from top edge to seventy-eighth row of features: 7.62" (0.3")
- Distance from top edge to seventy-ninth row of features: 3.81" (0.15")
- Distance from top edge to eightieth row of features: 7.62" (0.3")
- Distance from top edge to eighty-first row of features: 3.81" (0.15")
- Distance from top edge to eighty-second row of features: 7.62" (0.3")
- Distance from top edge to eighty-third row of features: 3.81" (0.15")
- Distance from top edge to eighty-fourth row of features: 7.62" (0.3")
- Distance from top edge to eighty-fifth row of features: 3.81" (0.15")
- Distance from top edge to eighty-sixth row of features: 7.62" (0.3")
- Distance from top edge to eighty-seventh row of features: 3.81" (0.15")
- Distance from top edge to eighty-eighth row of features: 7.62" (0.3")
- Distance from top edge to eighty-ninth row of features: 3.81" (0.15")
- Distance from top edge to ninetieth row of features: 7.62" (0.3")
- Distance from top edge to ninety-first row of features: 3.81" (0.15")
- Distance from top edge to ninety-second row of features: 7.62" (0.3")
- Distance from top edge to ninety-third row of features: 3.81" (0.15")
- Distance from top edge to ninety-fourth row of features: 7.62" (0.3")
- Distance from top edge to ninety-fifth row of features: 3.81" (0.15")
- Distance from top edge to ninety-sixth row of features: 7.62" (0.3")
- Distance from top edge to ninety-seventh row of features: 3.81" (0.15")
- Distance from top edge to ninety-eighth row of features: 7.62" (0.3")
- Distance from top edge to ninety-ninth row of features: 3.81" (0.15")
- Distance from top edge to one hundredth row of features: 7.62" (0.3")

General tolerance: DIN ISO 2768-mK 	106919/0 02.08.18 HELIS_MA 00			Cat.no.: .	
	Modification			3 59413 08 Drawing no. Issue no. Sheet 03 of 06 sheets	
		Date	Name	SVD 7.62HP/.../270... STIFTELEISTE MALE HEADER	
	Drawn	18.09.2014	FRIELING_L		
	Responsible		WRIGHT_ST		
	Checked	03.08.2018	HELIS_MA		
Scale: 1/1	Approved		NOLTE S	Product file: SVD 7.62HP 7409	

Recommended wave soldering profiles

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

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.