

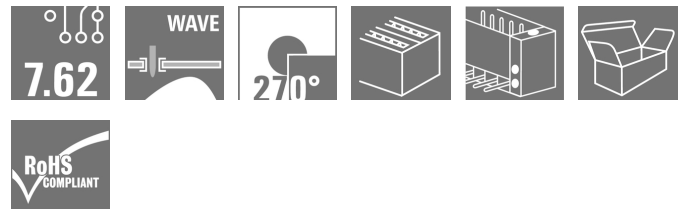
**SVD 7.62HP/12/270F 3.2SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

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: 12, 270°, Solder pin length (l): 3.2 mm, tinned, black, Box |
| Order No.    | <a href="#">1523990000</a>                                                                                                                                       |
| Type         | SVD 7.62HP/12/270F 3.2SN BK BX                                                                                                                                   |
| GTIN (EAN)   | 4050118329803                                                                                                                                                    |
| Qty.         | 15 pc(s).                                                                                                                                                        |
| Product data | IEC: 1000 V / 47 A<br>UL: 300 V / 30 A                                                                                                                           |
| Packaging    | Box                                                                                                                                                              |

Creation date September 16, 2022 6:59:11 AM 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           | 106.68 mm  |
| Width (inches)           | 4.2 inch | Net weight      | 65.51 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 inch                                   | Outgoing elbow                             | 270°             |
| Number of poles                              | 12                                         | 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                                     | 38.1 mm                                    | L1 in inches                               | 1.5 inch         |
| 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                      | Copper 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 | 136 mm | VPE height | 61 mm  |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0    | EC002637    |
| ETIM 8.0    | 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 |

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

**Approvals**

Approvals



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

## SVD 7.62HP/12/270F 3.2SN BK BX

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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><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL_INVERTER EN</a><br><a href="#">FL_BASE_STATION_EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a> |

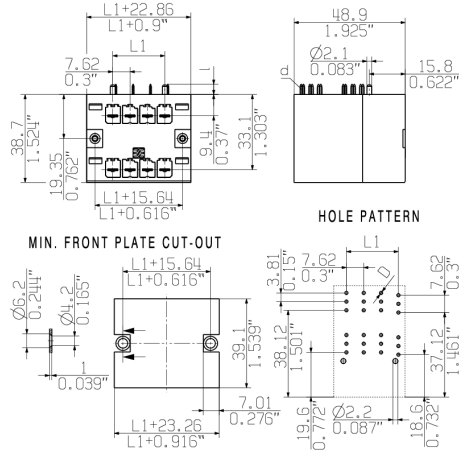
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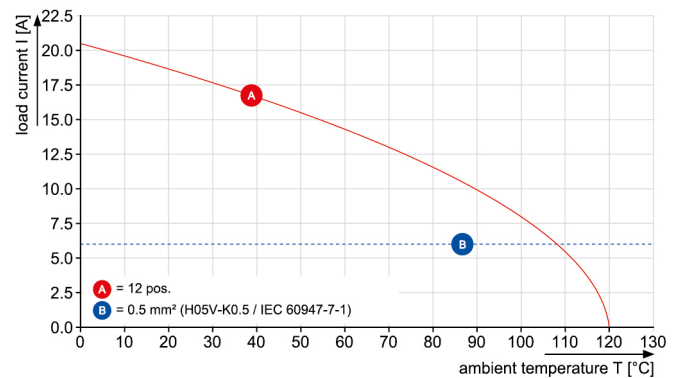
## Drawings

## Dimensional drawing



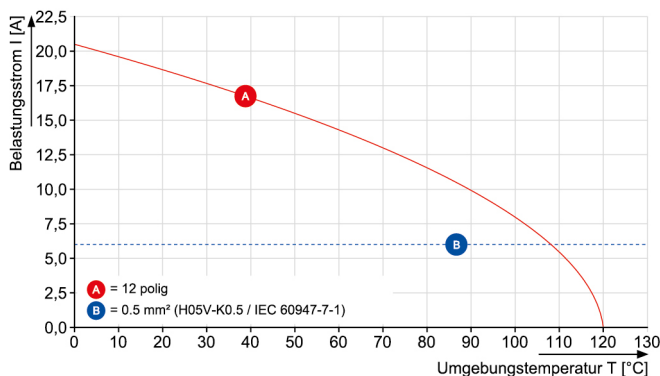
## Graph

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



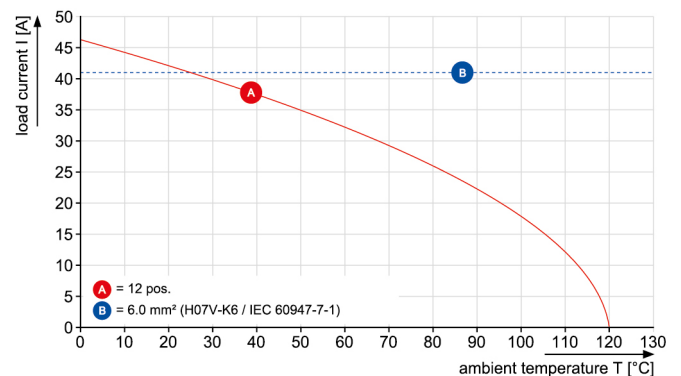
## Graph

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

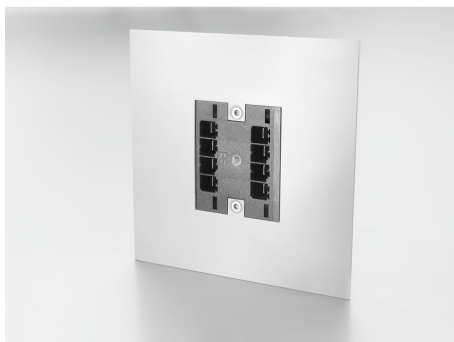


### Graph

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

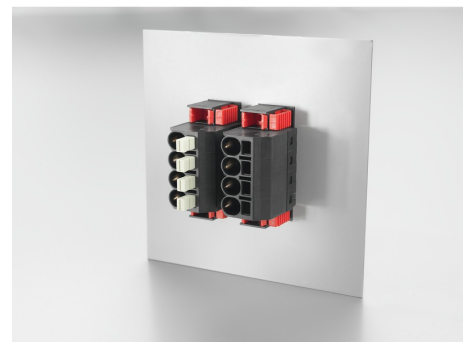


## Product benefits



High component density  
Small and compact pitch

## Product benefits



High component density  
Small and compact pitch

### SVD 7.62HP/12/270F 3.2SN BK BX

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## Drawings

### Product benefits



Space-saving power male header  
Through PUSH IN connection system

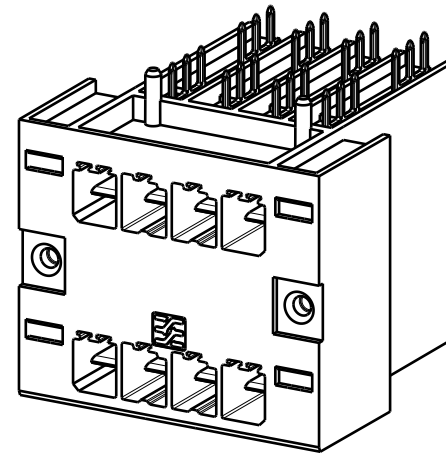
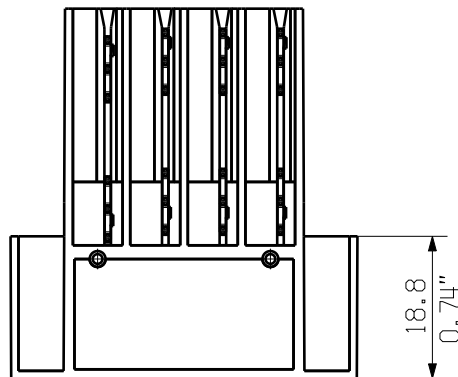
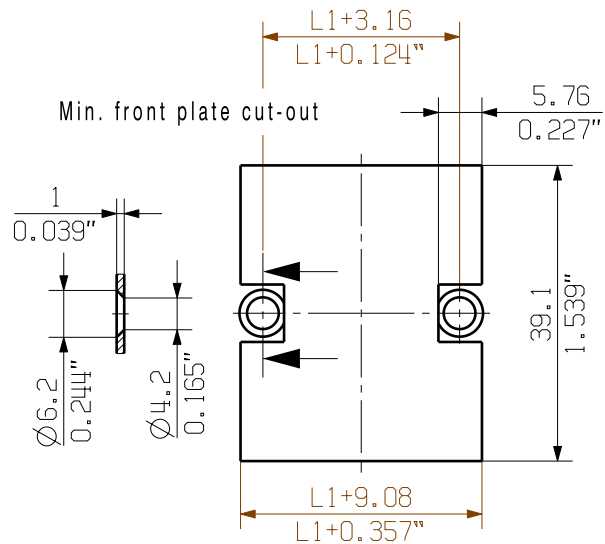
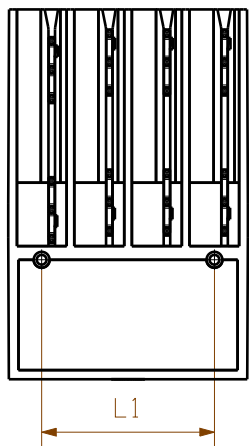
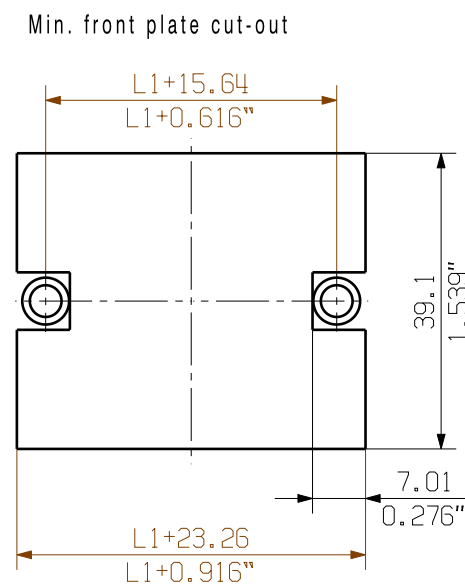
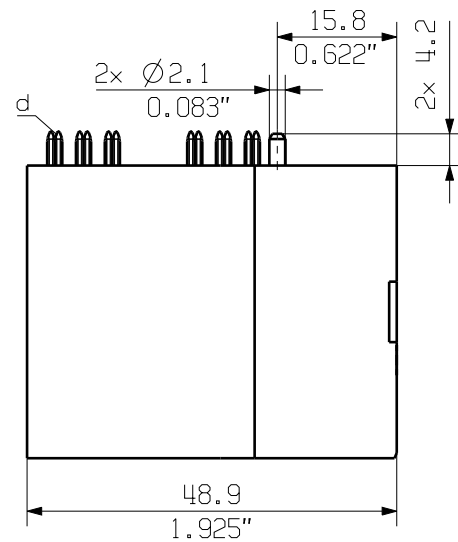
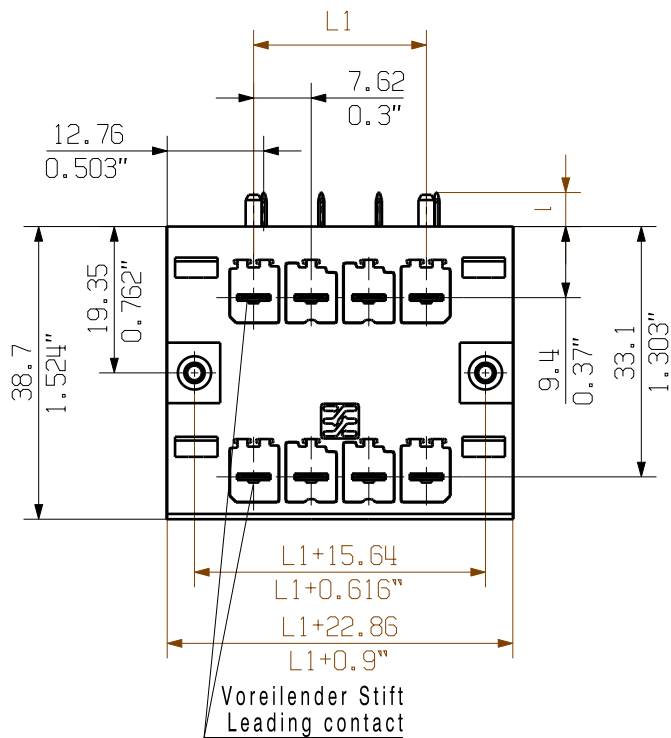
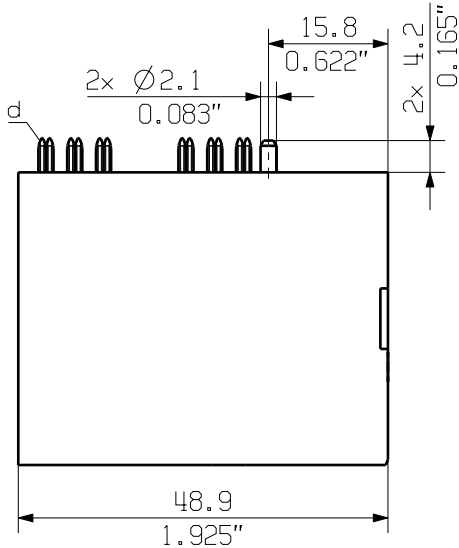
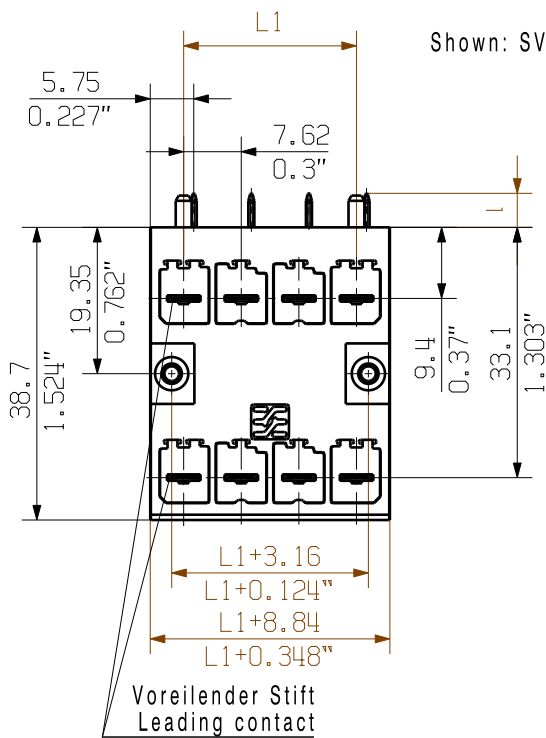
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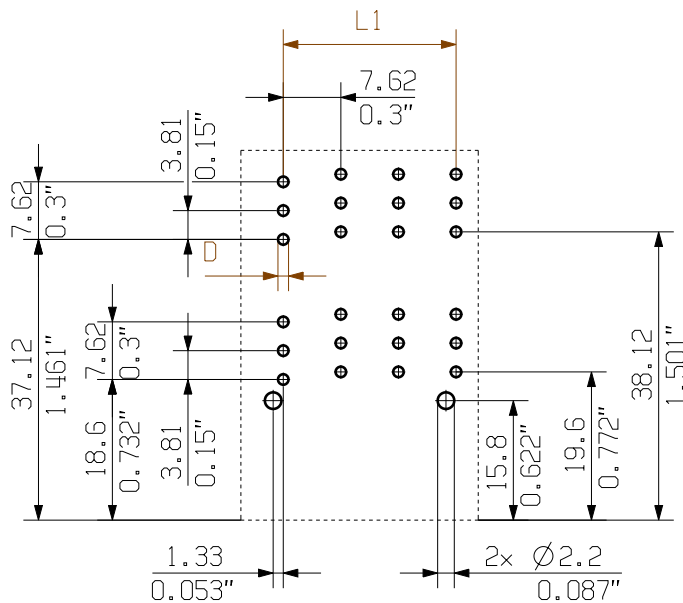
Dimensions without tolerances are no check dimensions

Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage  
General customer drawing, topical version only if required

The English version is binding



Hole pattern Fuer beide Varianten  
For both types



For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.  
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.  
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.  
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

Empfohlene Senkkopfschraube EJOT DELTA PT  
Recommended counter screw WN 5454 25x12 4269112801

D= Ø1.4 +0.1  
0.055"  
d= 0.8x1.0  
0.031"x0.039"

|        |          |
|--------|----------|
| 4.5    | 0.177    |
| 3.2    | 0.126    |
| l [mm] | l [inch] |

|                    |         |           |
|--------------------|---------|-----------|
| 12                 | 38.10   | 1.5       |
| 10                 | 30.48   | 1.2       |
| 8                  | 22.86   | 0.9       |
| 6                  | 15.24   | 0.6       |
| 4                  | 7.62    | 0.3       |
| n Polzahl<br>Poles | L1 [mm] | L1 [inch] |

General tolerance:  
DIN ISO 2768-mK

106919/0  
02.08.18 HELIS\_MA  
00

Modification

Drawn  
18.09.2014  
FRIELING\_L

Responsible  
WRIGHT\_ST

Checked  
03.08.2018  
HELIS\_MA

Approved  
NOLTE\_S

**Weidmüller**

Cat.no.:  
**3 59413**  
Drawing no.  
Sheet 03 of 06 sheets

Issue no.  
08

**SVD 7.62HP/.../270...**  
STIFTSLEISTE  
MALE HEADER

Scale: 1/1  
Supersedes: .

Product file: SVD 7.62HP

7409

## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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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.