

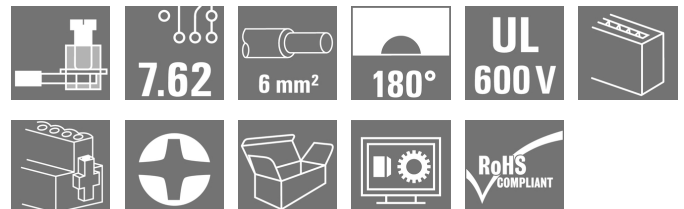
**SVZ 7.62HP/04/180FI SN BK BX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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.    | <a href="#">1932090000</a>                                                                                                      |
| Type         | SVZ 7.62HP/04/180FI SN BK BX                                                                                                    |
| GTIN (EAN)   | 4032248582204                                                                                                                   |
| Qty.         | 100 pc(s).                                                                                                                      |
| Product data | IEC: 1000 V / 57 A / 0.2 - 10 mm²<br>UL: 600 V / 42 A / AWG 24 - AWG 8                                                          |
| Packaging    | Box                                                                                                                             |

Creation date September 16, 2022 10:25:54 PM CEST

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## Technical data

## Dimensions and weights

|            |         |
|------------|---------|
| Net weight | 22.27 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 <sup>2</sup> |
| 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 <sup>2</sup>     |
| Clamping range, max.                                                 | 6 mm <sup>2</sup>       |
| 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 <sup>2</sup>     |
| Solid, max. H05(07) V-U                                              | 6 mm <sup>2</sup>       |
| Flexible, min. H05(07) V-K                                           | 0.5 mm <sup>2</sup>     |
| Flexible, max. H05(07) V-K                                           | 10 mm <sup>2</sup>      |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min. |                         |
| w. plastic collar ferrule, DIN 46228 pt 4, 6 mm <sup>2</sup> max.    |                         |
| w. wire end ferrule, DIN 46228 pt 1, 0.25 mm <sup>2</sup> min.       |                         |
| w. wire end ferrule, DIN 46228 pt 1, 6 mm <sup>2</sup> 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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|                                        |                                                                                                                                                                        |                             |                     |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------|
| Clampable conductor                    | Cross-section for conductor connection                                                                                                                                 | Type                        | fine-wired          |
|                                        |                                                                                                                                                                        | nominal                     | 0.5 mm <sup>2</sup> |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 14 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H0.5/18 OR</a>  |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 1 mm <sup>2</sup>           |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 15 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H1.0/18 GE</a>  |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 1.5 mm <sup>2</sup>         |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 15 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H1.5/18D SW</a> |                     |
|                                        | Stripping length                                                                                                                                                       | nominal                     | 12 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H1.5/12</a>     |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 0.75 mm <sup>2</sup>        |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 14 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H0.75/18 W</a>  |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 2.5 mm <sup>2</sup>         |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 14 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H2.5/19D BL</a> |                     |
|                                        | Stripping length                                                                                                                                                       | nominal                     | 12 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H2.5/12</a>     |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 4 mm <sup>2</sup>           |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 12 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H4.0/12</a>     |                     |
|                                        | Stripping length                                                                                                                                                       | nominal                     | 14 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H4.0/20D GR</a> |                     |
| Cross-section for conductor connection | Type                                                                                                                                                                   | fine-wired                  |                     |
|                                        | nominal                                                                                                                                                                | 6 mm <sup>2</sup>           |                     |
| wire end ferrule                       | Stripping length                                                                                                                                                       | nominal                     | 14 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H6.0/20 SW</a>  |                     |
|                                        | Stripping length                                                                                                                                                       | nominal                     | 12 mm               |
|                                        | Recommended wire-end ferrule                                                                                                                                           | <a href="#">H6.0/12</a>     |                     |
| 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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## Technical data

## 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)                             | 41 A                   | Rated current, min. number of poles (Tu=40°C)                         | 41 A              |
| Rated current, max. 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/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 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 |
| Clearance, min.                                                           | 13.56 mm               | Creepage distance, min.                                               | 13.8 mm           |

## Rated data acc. to CSA

|                                   |                                                                                    |                                   |                |
|-----------------------------------|------------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 200039-1534443 |
| Rated voltage (Use group B / CSA) | 600 V                                                                              | Rated voltage (Use group C / CSA) | 600 V          |
| Rated voltage (Use group D / CSA) | 600 V                                                                              | Rated current (Use group B / CSA) | 35 A           |
| Rated current (Use group C / CSA) | 35 A                                                                               | Rated current (Use group D / CSA) | 5 A            |
| Wire cross-section, AWG, min.     | AWG 24                                                                             | Wire cross-section, AWG, max.     | AWG 10         |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.             |                                   |                |

## 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 C / UL 1059) | 600 V  |
| Rated voltage (Use group D / UL 1059) | 600 V                                                                               | Rated current (Use group B / UL 1059) | 42 A   |
| Rated current (Use group C / UL 1059) | 42 A                                                                                | Rated current (Use group D / UL 1059) | 5 A    |
| Wire cross-section, AWG, min.         | AWG 24                                                                              | Wire cross-section, AWG, max.         | AWG 8  |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 332 mm |
| VPE width | 126 mm | VPE height | 134 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                                                                           |

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Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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|----------------------------------------------|----------------|------------------------------------------------------------------------------------|------------------------------|
| 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 / 12.02 |                              |
|                                              | Conductor type | Type of conductor and conductor cross-section                                      | solid 0.5 mm <sup>2</sup>    |
|                                              |                | Type of conductor and conductor cross-section                                      | stranded 0.5 mm <sup>2</sup> |
|                                              |                | Type of conductor and conductor cross-section                                      | solid 6 mm <sup>2</sup>      |
|                                              |                | Type of conductor and conductor cross-section                                      | stranded 6 mm <sup>2</sup>   |
|                                              |                | 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                                                                             |                              |

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|                                                           |                |                                               |                              |
|-----------------------------------------------------------|----------------|-----------------------------------------------|------------------------------|
| 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 <sup>2</sup>    |
|                                                           |                | Type of conductor and conductor cross-section | stranded 0.5 mm <sup>2</sup> |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | 1.4 kg                                        |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | solid 6 mm <sup>2</sup>      |
|                                                           |                | Type of conductor and conductor cross-section | stranded 6 mm <sup>2</sup>   |
|                                                           |                | Type of conductor and conductor cross-section | AWG 10/1                     |
|                                                           |                | Type of conductor and conductor cross-section | AWG 10/19                    |
|                                                           | Evaluation     | passed                                        |                              |
| Pull-out test                                             | Standard       | DIN EN 60999-1 section 9.5 / 12.00            |                              |
|                                                           | Requirement    | ≥10 N                                         |                              |
|                                                           | 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    | ≥20 N                                         |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm <sup>2</sup>    |
|                                                           |                | Type of conductor and conductor cross-section | stranded 0.5 mm <sup>2</sup> |
|                                                           | Evaluation     | passed                                        |                              |
|                                                           | Requirement    | ≥80 N                                         |                              |
|                                                           | Conductor type | Type of conductor and conductor cross-section | solid 6 mm <sup>2</sup>      |
|                                                           |                | Type of conductor and conductor cross-section | stranded 6 mm <sup>2</sup>   |
|                                                           |                | 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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## 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          | <ul style="list-style-type: none"> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

## Approvals

Approvals



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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                                                              |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                              |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Change Notification                 | <a href="#">PCN_2016_275_PL33_plugable_SIBL_EN</a><br><a href="#">PCN_2016_275_PL33_Steckbare_SIBL_DE</a><br><a href="#">20220208 Visual change Temporarily different color for connectors and accessories</a><br><a href="#">20220208 Visuelle Änderung Vorübergehend anderer Farbton für Steckverbinder und Zubehör</a>                                                                                    |
| User Documentation                          | <a href="#">QR-Code product handling video</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><br><a href="#">PO OMNIMATE EN</a> |



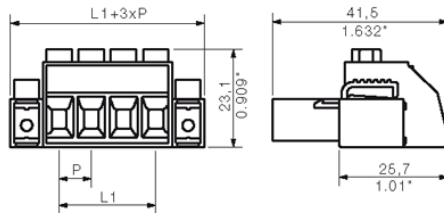
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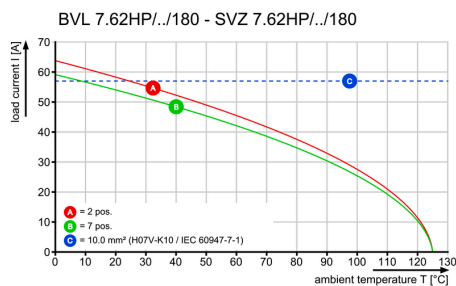
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## Drawings

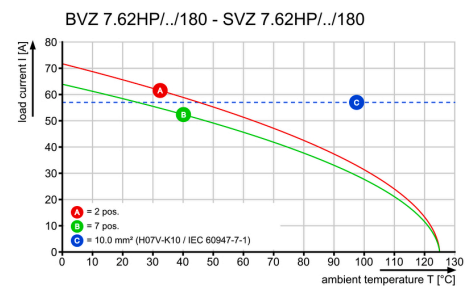
### Dimensional drawing



### Graph



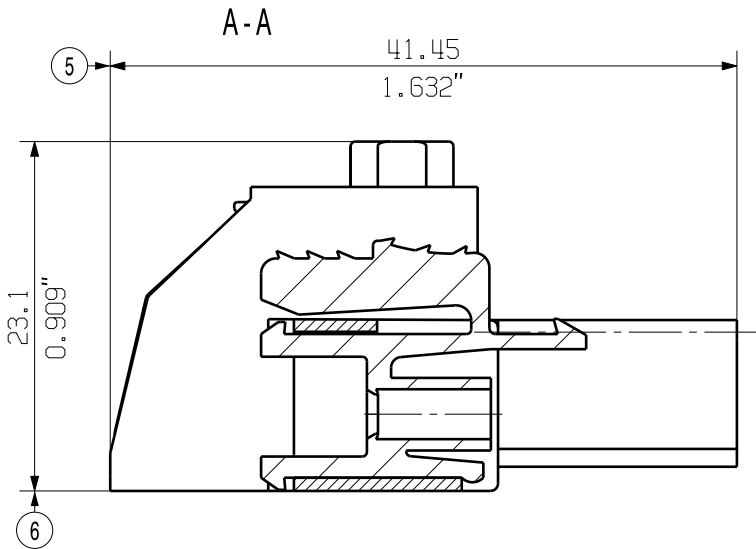
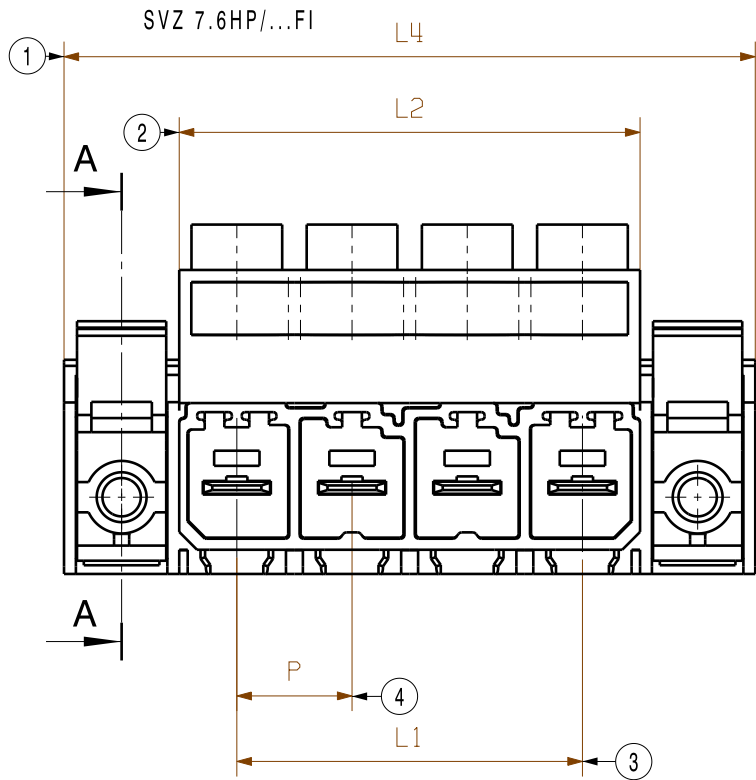
### Graph



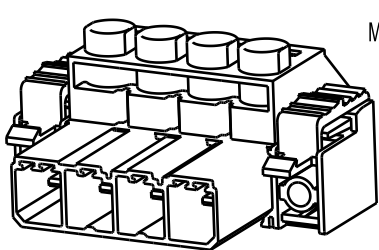
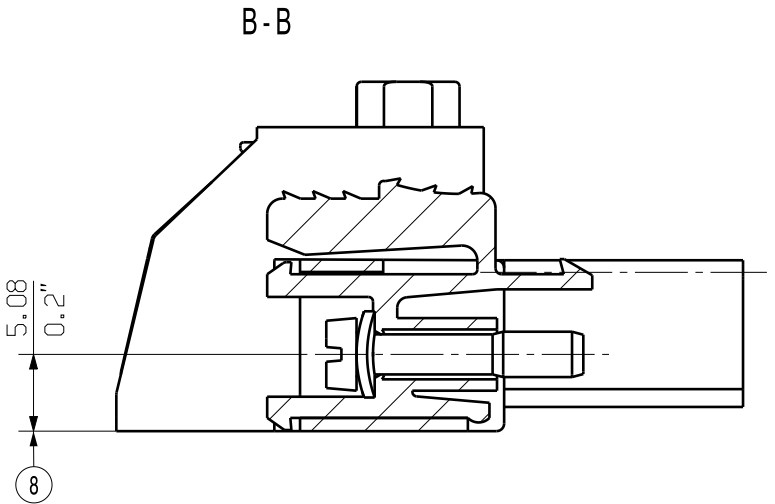
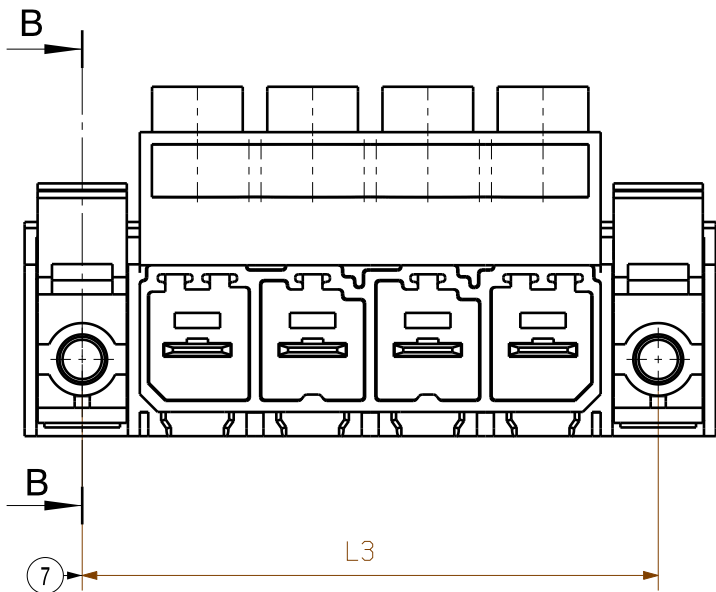
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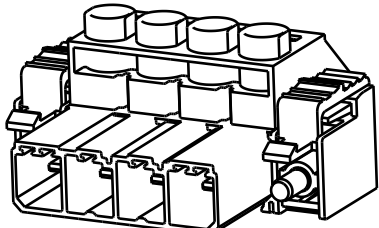
DIE DEUTSCHE VERSION IST VERBINDLICH  
THE GERMAN VERSION IS BINDING



SVZ 7.62HP/...SFI



SVZ 7.62HP/...FI



SVZ 7.62HP/...SFI

|   |         |           |         |           |         |           |         |           |
|---|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 7 | 45,72   | 1,80      | 53,34   | 2,10      | 60,96   | 2,40      | 68,58   | 2,70      |
| 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      |
| 2 | 7,62    | 0,30      | 15,24   | 0,60      | 22,86   | 0,90      | 30,48   | 1,20      |
| n | L1 (mm) | L1 (Inch) | L2 (mm) | L2 (Inch) | L3 (mm) | L3 (Inch) | L4 (mm) | L4 (Inch) |

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection 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 occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

GENERAL TOLERANCE:  
DIN ISO 2768-mK

MAX. NRN./NOS. 8



86257/5  
02.02.16 HELIS\_MA 01

MODIFICATION

DATE

NAME

DRAWN

09.01.2007

NEUMANN\_G

RESPONSIBLE

KRUG\_M

CHECKED

16.02.2016

HERTEL\_S

APPROVED

LANG\_T

SCALE: 2/1

SUPERSEDES: -

SUPERSEDED BY: .

CAT.NO.: .

Weidmüller



C 42188

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DRAWING NO.

ISSUE NO.

SVZ 7.62HP/...FI  
STIFTSLEISTE  
PIN HEADER

PRODUCT FILE: SV/BVZ 7.62 HP

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