

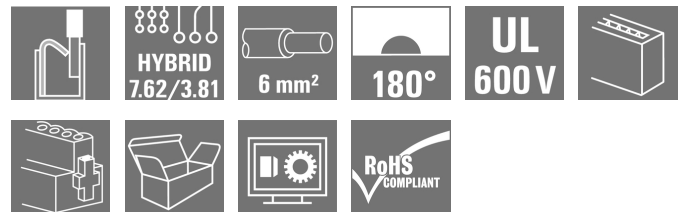
**BVF 7.62HP/04/180MSF4 BCF/04R SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

180° female plug with energy and signal contacts in PUSH IN wire connection in 7.62 pitch.  
Fulfils the IEC 61800-5-1 requirement and for the energy contact UL 1059 ClassC 600 V.

The self-locking middle flange with automatic interlock reduces the space requirements by one pitch width in comparison with conventional solutions. Optionally also available with additional mounting screw.

**General ordering data**

|              |                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN with actuator, PUSH IN without actuator, Clamping range, max. : 10 mm², Box |
| Order No.    | <a href="#">1081660000</a>                                                                                                                                 |
| Type         | BVF 7.62HP/04/180MSF4 BCF/04R SN BK BX                                                                                                                     |
| GTIN (EAN)   | 4032248844517                                                                                                                                              |
| Qty.         | 30 pc(s).                                                                                                                                                  |
| Product data | IEC: 1000 V / 38 A / 0.5 - 10 mm²<br>UL: 600 V / 35 A / AWG 24 - AWG 8                                                                                     |
| Packaging    | Box                                                                                                                                                        |

Creation date September 15, 2022 11:42:55 PM CEST

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

|            |        |
|------------|--------|
| Net weight | 30.3 g |
|------------|--------|

**System Parameters**

|                                              |                                                 |                                            |                   |
|----------------------------------------------|-------------------------------------------------|--------------------------------------------|-------------------|
| Product family                               | OMNIMATE Power - series BV/SV 7.62HP            | Type of connection                         | Field connection  |
| Wire connection method                       | PUSH IN with actuator, PUSH IN without actuator | 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                                   | 30.48 mm          |
| L1 in inches                                 | 1.2 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 | IP 20             |
| Volume resistance                            | 4.50 mΩ                                         | Can be coded                               | Yes               |
| Stripping length                             | 12 mm                                           | Tightening torque for screw flange, min.   | 0.2 Nm            |
| Tightening torque for screw flange, max.     | 0.3 Nm                                          | Screwdriver blade                          | 0.6 x 3.5         |
| Plugging force/pole, max.                    | 17 N                                            | Pulling force/pole, max.                   | 15 N              |

**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 material                      | Copper alloy       | Contact surface                       | tinned |
| Layer structure of plug contact       | 6...8 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.                                                | 0.5 mm <sup>2</sup> |
| Clamping range, max.                                                | 10 mm <sup>2</sup>  |
| Solid, min. H05(07) V-U                                             | 0.5 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                                             | 10 mm <sup>2</sup>  |
| Stranded, max. H07V-R                                               | 10 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, 1.5 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, 1.5 mm <sup>2</sup> min.       |                     |
| w. wire end ferrule, DIN 46228 pt 1, 10 mm <sup>2</sup> max.        |                     |

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**Technical data**

|                                        |                                                                                                                                                                        |                              |                             |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| 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>     |
| Cross-section for conductor connection |                                                                                                                                                                        | Type                         | fine-wired                  |
|                                        |                                                                                                                                                                        | nominal                      | 10 mm <sup>2</sup>          |
| wire end ferrule                       |                                                                                                                                                                        | Stripping length             | nominal 12 mm               |
|                                        |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H10.0/12</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)                         | 38 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 38 A                   | Rated current, min. number of poles (Tu=40°C)                         | 34 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 34 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.                                                           | 10.4 mm                | Creepage distance, min.                                               | 12.7 mm           |

## Rated data acc. to CSA

|                                   |                                                                                    |                                   |                |
|-----------------------------------|------------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 200039-1121690 |
| 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) | 33 A           |
| Rated current (Use group C / CSA) | 33 A                                                                               | Rated current (Use group D / CSA) | 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.             |                                   |                |

## 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) | 35 A   |
| Rated current (Use group C / UL 1059) | 35 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 | 338 mm |
| VPE width | 130 mm | VPE height | 54 mm  |

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**Technical data****Technical data - hybrid**

|                                                                                     |                     |                                                                                     |                  |
|-------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|------------------|
| Pitch in mm (Signal)                                                                | 3.81 mm             | Pitch in inches (Signal)                                                            | 0.15 inch        |
| Number of poles (Signal)                                                            | 4                   | L2 in mm                                                                            | 3.81 mm          |
| L2 in inch                                                                          | 0.15 inch           | Number of rows (Signal)                                                             | 2                |
| Contact material (Signal)                                                           | CuMg                | Contact surface (Signal)                                                            | tinned           |
| Layer structure of the plug contact (Signal)                                        | 1-3 µ Ni / 4-8 µ Sn | Rated voltage for overvoltage class/pollution severity level II/2 (Signal)          | 400 V            |
| Rated voltage for overvoltage class/pollution severity level III/2 (Signal)         | 320 V               | Rated voltage for overvoltage class/pollution severity level III/3 (Signal)         | 200 V            |
| Rated impulse voltage for overvoltage class/pollution severity level II/2 (Signal)  | 4 kV                | Rated impulse voltage for overvoltage class/pollution severity level III/2 (Signal) | 4 kV             |
| Rated impulse voltage for overvoltage class/pollution severity level III/3 (Signal) | 4 kV                | Short-time withstand current resistance (Signal)                                    | 3 x 1s with 80 A |
| Rated voltage (Use group B / CSA) (Signal)                                          | 300 V               | Rated voltage (Use group C / CSA) (Signal)                                          | 50 V             |
| Rated voltage (Use group D / CSA) (Signal)                                          | 300 V               | Rated current (Use group B / CSA) (Signal)                                          | 9 A              |
| Rated current (Use group C / CSA) (Signal)                                          | 9 A                 | Rated current (Use group D / CSA) (Signal)                                          | 9 A              |
| Wire connection cross-section AWG (Signal)                                          | AWG 24...AWG 16     | Rated voltage (Use group B / UL 1059] (Signal)                                      | 300 V            |
| Rated voltage (Use group C / UL 1059] (Signal)                                      | 50 V                | Rated voltage (Use group D / UL 1059] (Signal)                                      | 300 V            |
| Rated current (Use group B / UL 1059] (Signal)                                      | 5 A                 | Rated current (Use group C / UL 1059] (Signal)                                      | 5 A              |
| Rated current (Use group D / UL 1059] (Signal)                                      | 5 A                 | Connector cross-section (Signal)                                                    | AWG 26...AWG 16  |

**Conductors that can be connected - Hybrid**

|                                                         |                          |                                                          |                            |
|---------------------------------------------------------|--------------------------|----------------------------------------------------------|----------------------------|
| Clamping range, rated connection (Power)                | 0.5...10 mm <sup>2</sup> | Clamping range, rated connection (Signal)                | 0.2...1.5 mm <sup>2</sup>  |
| Connector cross-section (Power)                         | AWG 24...AWG 8           | Connector cross-section AWG (Signal)                     | AWG 26...AWG 16            |
| solid, H05(07) V-U (Power)                              | 0.5...10 mm <sup>2</sup> | solid, H05(07) V-U (Signal)                              | 0.14...1.5 mm <sup>2</sup> |
| flexible, H05(07) V-K (Power)                           | 0.5...6 mm <sup>2</sup>  | flexible, H05(07) V-K (Signal)                           | 0.14...1.5 mm <sup>2</sup> |
| with wire-end ferrule with collar (Power)               | 0.5...6 mm <sup>2</sup>  | with wire-end ferrule with collar, DIN 46 228/4 (Signal) | 0.25...1.5 mm <sup>2</sup> |
| with wire-end ferrule according to DIN 46 228/1 (Power) | 0.5...6 mm <sup>2</sup>  | with wire-end ferrule according to DIN 46 228/1 (Signal) | 0.25...1.5 mm <sup>2</sup> |

**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 | 27-46-03-02 |

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**Technical data****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>• Technical specifications refer to the power contacts</li> <li>• Technical data of signal contacts: 50V / 5A, stripping length 8mm</li> <li>• Additional variants on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</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     |

**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="#">20220201 Visual change OMNIMATE® Power PCB terminal blocks and connectors</a><br><a href="#">20220201 Visuelle Änderung OMNIMATE® Power Leiterplattenklemmen und -steckverbinder</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="#">Operating Instruction BVF</a><br><a href="#">Operating Instruction BVF hybrid</a><br><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>     |

Creation date September 15, 2022 11:42:55 PM CEST

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

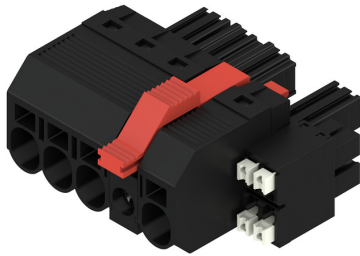
## BVF 7.62HP/04/180MSF4 BCF/04R SN BK BX

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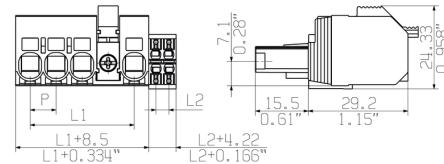
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

## Product image



## Dimensional drawing



## Graph



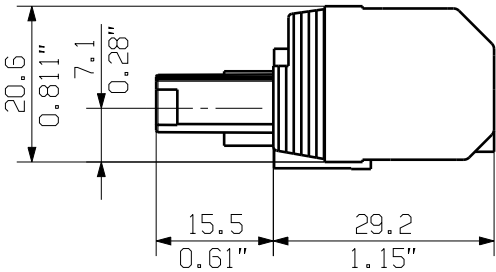
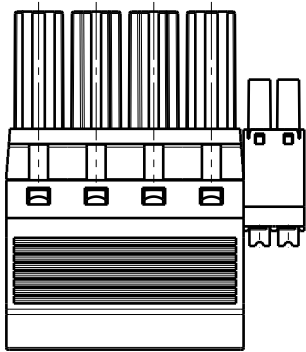
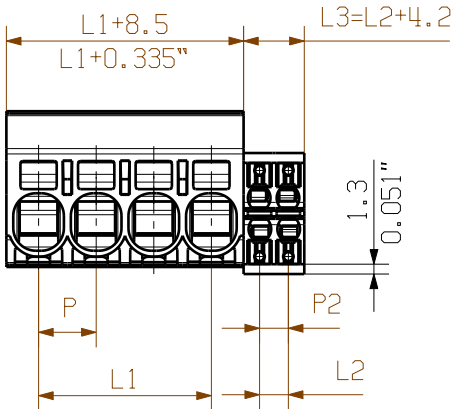
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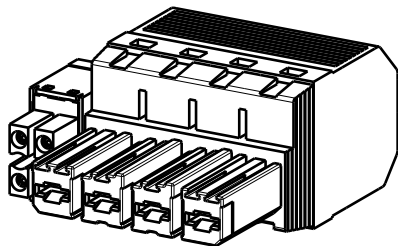
Dimensions without tolerances are no check dimensions

The English version is binding

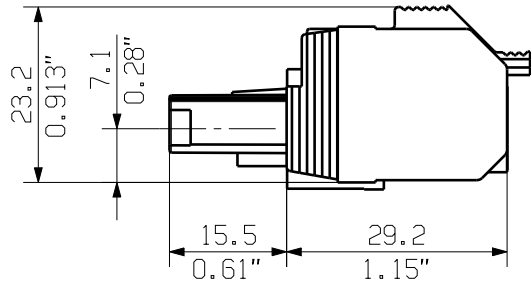
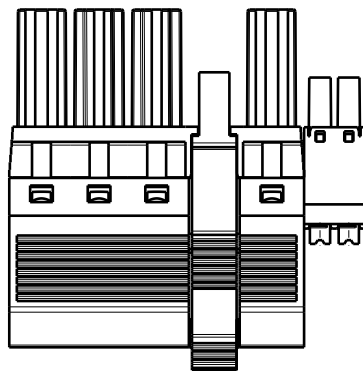
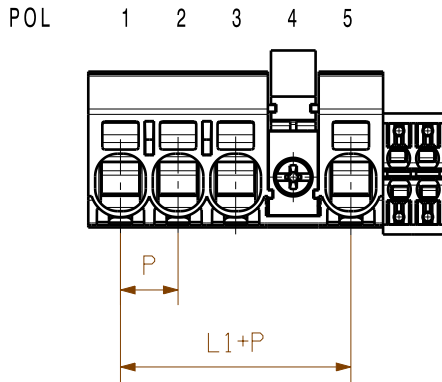
BVF7.62HP/.../180BCF/...R  
SHOWN: BVF7.62HP/04/180BCF/04R



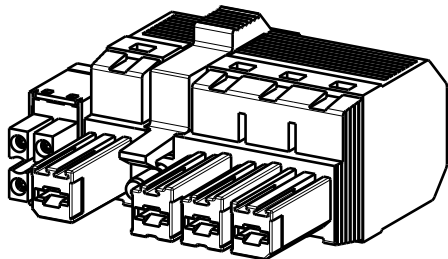
SCREWDRIVER  
CONDUCTOR



BVF7.62HP/.../180MF...BCF/...R  
SHOWN: BVF7.62HP/04/180MF4BCF/04R



SCREWDRIVER  
CONDUCTOR



P = Raster/pitch = 7.62  
P2 = Raster/pitch = 3.81

|                            |          |         |                                     |                                      |                                       |
|----------------------------|----------|---------|-------------------------------------|--------------------------------------|---------------------------------------|
| 5                          | 30,48    | 7.62    |                                     |                                      |                                       |
| 4                          | 22,86    |         |                                     |                                      |                                       |
| 3                          | 15,24    |         |                                     |                                      |                                       |
| 2                          | 7,62     |         |                                     |                                      |                                       |
| POLZAHL/<br>NO OF<br>POLES | L1<br>mm | P<br>mm | HYBRID 4POL<br>L3=8.03mm<br>L2=3.81 | HYBRID 6POL<br>L3=11.84mm<br>L2=7.62 | HYBRID 8POL<br>L3=15.65mm<br>L2=11.43 |

GENERAL TOLERANCE:  
DIN ISO 2768-m

P=POL/POLES  
MF= MITTELFANSCH/MIDDLE FLANGE

|             |     |    |    |    |   |   |
|-------------|-----|----|----|----|---|---|
| 5 MF 4      | P   | P  | P  | MF | P | P |
| 5 MF 3      | P   | P  | MF | P  | P | P |
| 4 MF 4      | P   | P  | P  | MF | P |   |
| 4 MF 3      | P   | P  | MF | P  | P |   |
| 3 MF 3      | P   | P  | MF | P  |   |   |
| 3 MF 2      | P   | MF | P  | P  |   |   |
| 2 MF 2      | P   | MF | P  |    |   |   |
| POLE        | 1   | 2  | 3  | 4  | 5 | 6 |
| NO OF POLES | POS |    |    |    |   |   |

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.

|                   |                                |            |                                                        |                       |                              |  |
|-------------------|--------------------------------|------------|--------------------------------------------------------|-----------------------|------------------------------|--|
|                   | Max. nos.                      |            | Prim PLM Part No.:005815                               |                       | Prim ERP Part No.:1080320000 |  |
|                   | First Issue Date<br>29.08.2018 |            | 00                                                     |                       |                              |  |
|                   | Modification                   |            | 49284                                                  |                       |                              |  |
|                   | Drawn                          | Date       | Name                                                   | Sheet 01 of 01 sheets |                              |  |
|                   | Responsible                    | 24.10.2018 | Administrator                                          |                       |                              |  |
| Scale: 2/11       | Size: A3                       | Approved   | BVF 7.62HP/04/180 BCF<br>BUCHSENLEISTE<br>SOCKET BLOCK |                       |                              |  |
| Drawings Assembly |                                |            | Product file: 7390 BVF/SVF 7.62HP                      |                       |                              |  |

not released