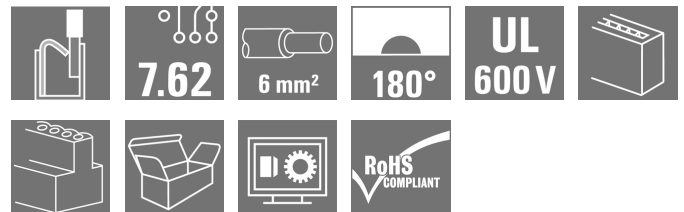


## OMNIMATE Power - series BV/SV 7.62HP BVF 7.62HP/02/180 SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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### Product image



Similar to illustration

180° female header with PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with 7.62 pitch.

Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1. Ideal touch-safe solution for the power output.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: without flange, external flange, middle flange with detent fastening and optionally additional screw mount.

### General ordering data

|              |   |
|--------------|---|
| Type         | BVF 7.62HP/02/180 SN BK BX  |
| Order No.    | <a href="#">1060390000</a>  |
| Version      | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2, 180°, PUSH IN, Clamping range, max. : 10 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4032248810130   |
| Qty.         | 95 pc(s).   |
| Product data | IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup><br>UL: 600 V / 39 A / AWG 24 - AWG 8  |
| Packaging    | Box   |

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

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Height     | 20 mm    | Height (inches) | 0.787 inch |
| Depth      | 44.7 mm  | Depth (inches)  | 1.76 inch  |
| Net weight | 11.379 g |                 |            |

**System Parameters**

|  |                                      |  |                   |
|--|--------------------------------------|--|-------------------|
| Product family                               | OMNIMATE Power - series BV/SV 7.62HP | Type of connection                         | Field connection  |
| Wire connection method                       | PUSH IN                              | Pitch in mm (P)                            | 7.62 mm           |
| Pitch in inches (P)                          | 0.3 inch                             | Conductor outlet direction                 | 180°              |
| Number of poles                              | 2                                    | L1 in mm                                   | 7.62 mm           |
| L1 in inches                                 | 0.3 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                                | Screwdriver blade                          | 0.6 x 3.5         |
| Plugging cycles                              | 25                                   | 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            | Insulation strength                   | ≥ 10 <sup>8</sup> Ω |
| UL 94 flammability rating             | V-0              | GWFI                                  | 960 °C              |
| Contact material                      | Copper alloy     | Contact surface                       | tinned              |
| Layer structure of plug contact       | 6-8 μm Sn glossy | Storage temperature, min.             | -25 °C              |
| Storage temperature, max.             | 55 °C            | Max. relative humidity during storage | 80 %                |
| 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, 0.5 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, 0.5 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****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)                             | 51 A                   | Rated current, min. number of poles (Tu=40°C)                         | 57 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 45 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) | 39 A   |
| Rated current (Use group C / UL 1059) | 39 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 | 55 mm  |
| VPE width | 135 mm | VPE height | 350 mm |

**Classifications**

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0   | EC002638    |
| eClass 9.0  | 27-44-03-09 | eClass 9.1 | 27-44-03-09 |
| eClass 10.0 | 27-44-03-09 |            |             |

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**Technical data**
**Notes**

|       |   |
|-------|---|
| Notes | <ul style="list-style-type: none"> <li>• Additional colours on request</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>• 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>• Versions with pusher, see BVFL</li> </ul> |
|-------|---|

|                |  |
|----------------|--|
| 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. |
|----------------|--|

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

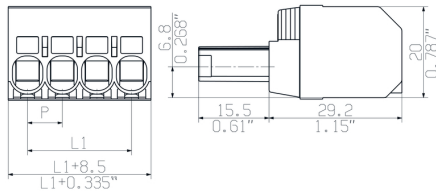
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity       | <a href="#">Declaration of the Manufacturer</a>   |
| Brochure/Catalogue                                | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">CAT 2 PORTFOLIOGUIDE EN</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> |
| Engineering Data                                  | <a href="#">EPLAN, WSCAD</a>  |
| Engineering Data                                  | <a href="#">STEP</a>  |
| White paper power electronics connected correctly | <a href="#">Download Whitepaper</a>   |
| Product Change Notification                       | <a href="#">2018, March - BVF 7.62HP 2-pole version, fixed coding at pole 1</a>   |
| User Documentation                                | <a href="#">Operating Instruction BVF</a><br><a href="#">QR-Code product handling video</a>   |
| White paper UL 600 V                              | <a href="#">Download Whitepaper</a>   |
| White paper PUSH IN wire connection               | <a href="#">Download Whitepaper</a>   |

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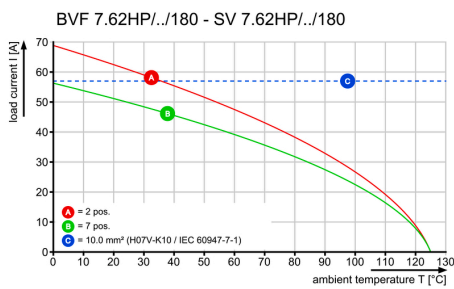
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**Drawings**

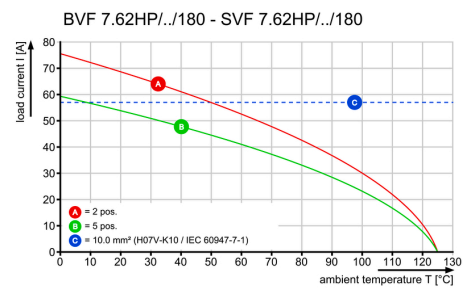
**Dimensional drawing**



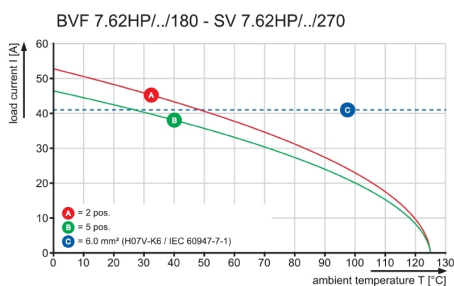
**Graph**



**Graph**



**Graph**



**Product benefits**



Installation without tools  
Outlet direction: 90° und 180°