

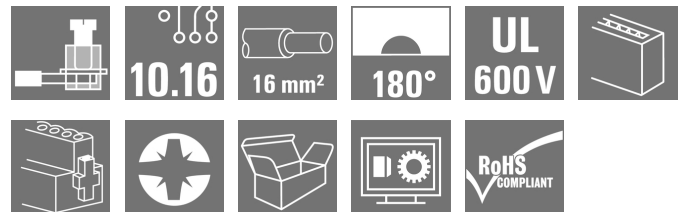
**BUZ 10.16HP/04/180F AG BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

High-performance female 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, protection against incorrect wiring and 4-point silver contact.

**General ordering data**

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 10.16 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 16 mm², Box |
| Order No.    | <a href="#">1924640000</a>                                                                                                          |
| Type         | BUZ 10.16HP/04/180F AG BK BX                                                                                                        |
| GTIN (EAN)   | 4032248564767                                                                                                                       |
| Qty.         | 20 pc(s).                                                                                                                           |
| Product data | IEC: 1000 V / 78.3 A / 0.2 - 16 mm²<br>UL: 600 V / 60 A / AWG 22 - AWG 4                                                            |
| Packaging    | Box                                                                                                                                 |

Creation date March 26, 2021 8:29:02 AM CET

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

|            |        |
|------------|--------|
| Net weight | 50.8 g |
|------------|--------|

**System Parameters**

|                                              |                                       |                                            |                         |
|----------------------------------------------|---------------------------------------|--------------------------------------------|-------------------------|
| Product family                               | OMNIMATE Power - series BU/SU 10.16HP | Type of connection                         | Field connection        |
| Wire connection method                       | Clamping yoke connection              | Pitch in mm (P)                            | 10.16 mm                |
| Pitch in inches (P)                          | 0.4 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                        | 16 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, min.                    | 1.2 Nm                  |
| Tightening torque, max.                      | 1.5 Nm                                | Clamping screw                             | M 4                     |
| Screwdriver blade                            | 1.0 x 5.5, PZ 2                       | Screwdriver blade standard                 | DIN 5264, ISO 8764/2-PZ |
| Plugging cycles                              | ≤ 50                                  | Plugging force/pole, max.                  | 15.5 N                  |
| Pulling force/pole, max.                     | 14.5 N                                |                                            |                         |

**Material data**

|                                       |               |                                       |                     |
|---------------------------------------|---------------|---------------------------------------|---------------------|
| Insulating material                   | PA GF         | Colour                                | black               |
| Colour chart (similar)                | RAL 9011      | Insulating material group             | I                   |
| Comparative Tracking Index (CTI)      | ≥ 600         | Insulation strength                   | ≥ 10 <sup>8</sup> Ω |
| UL 94 flammability rating             | V-0           | Contact material                      | Copper alloy        |
| Contact surface                       | silver-plated | Layer structure of plug contact       | ≥ 3 μm Ag           |
| Storage temperature, min.             | -40 °C        | Storage temperature, max.             | 70 °C               |
| Operating temperature, min.           | -50 °C        | Operating temperature, max.           | 130 °C              |
| Temperature range, installation, min. | -25 °C        | Temperature range, installation, max. | 130 °C              |

**Conductors suitable for connection**

|                                                                      |                     |
|----------------------------------------------------------------------|---------------------|
| Clamping range, min.                                                 | 0.2 mm <sup>2</sup> |
| Clamping range, max.                                                 | 16 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                              | AWG 22              |
| Wire connection cross section AWG, max.                              | AWG 4               |
| Solid, min. H05(07) V-U                                              | 0.2 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                                              | 16 mm <sup>2</sup>  |
| Stranded, min. H07V-R                                                | 6 mm <sup>2</sup>   |
| Stranded, max. H07V-R                                                | 16 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                           | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                                           | 16 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, 16 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, 16 mm <sup>2</sup> max.         |                     |
| Plug gauge in accordance with EN 60999 a x b; ø                      | 5.3mm (B6)          |

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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> |                     |
| wire end ferrule                       | 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> |                     |
| wire end ferrule                       | 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>     |                     |
| wire end ferrule                       | 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>  |                     |
| wire end ferrule                       | 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>    |                     |
| wire end ferrule                       | Stripping length                       | nominal                     | 15 mm               |
|                                        | Recommended wire-end ferrule           | <a href="#">H10.0/22 EB</a> |                     |
| Cross-section for conductor connection | Type                                   | fine-wired                  |                     |
|                                        | nominal                                | 16 mm <sup>2</sup>          |                     |
| wire end ferrule                       | Stripping length                       | nominal                     | 12 mm               |
|                                        | Recommended wire-end ferrule           | <a href="#">H16.0/12</a>    |                     |
| wire end ferrule                       | Stripping length                       | nominal                     | 15 mm               |
|                                        | Recommended wire-end ferrule           | <a href="#">H16.0/22 GN</a> |                     |

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## Technical data

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage.

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 78.3 A            |
| Rated current, max. number of poles (Tu=20°C)                             | 67.9 A                 | Rated current, min. number of poles (Tu=40°C)                         | 70.6 A            |
| Rated current, max. number of poles (Tu=40°C)                             | 61.3 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        | 1,000 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 mit 1000 A |

## Rated data acc. to CSA

|                                   |                                                                                    |                                   |                |
|-----------------------------------|------------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 200039-1842490 |
| 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) | 60 A           |
| Rated current (Use group C / CSA) | 60 A                                                                               | Rated current (Use group D / CSA) | 5 A            |
| Wire cross-section, AWG, min.     | AWG 22                                                                             | Wire cross-section, AWG, max.     | AWG 4          |
| 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) | 60 A   |
| Rated current (Use group C / UL 1059) | 60 A                                                                                | Rated current (Use group D / UL 1059) | 5 A    |
| Wire cross-section, AWG, min.         | AWG 22                                                                              | Wire cross-section, AWG, max.         | AWG 4  |
| 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 | ECLASS 11.0 | 27-46-02-02 |

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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>• Additional colours 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>• 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>• For all applications with flange we recommend to fix the pin header with the help of the soldering flange or a self-tapping screw on the board.</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 | E60693  |

**Downloads**

|                                             |                                                 |
|---------------------------------------------|-------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a> |
| Engineering Data                            | <a href="#">STEP</a>                            |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                    |
| User Documentation                          | <a href="#">QR-Code product handling video</a>  |

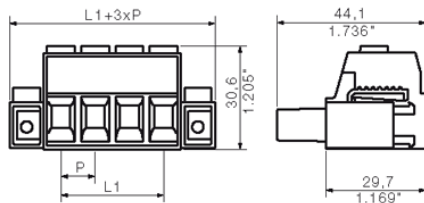
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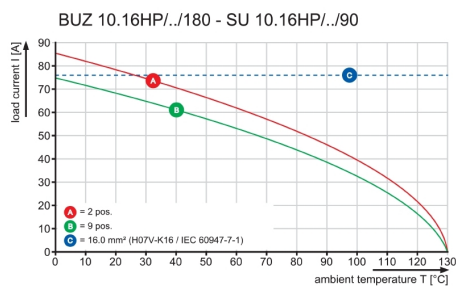
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## Drawings

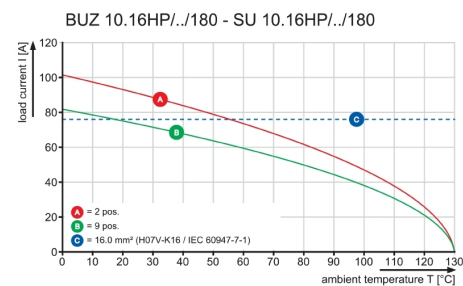
### Dimensional drawing



### Graph



### Graph



### Graph

