

## BLA 3 SN OR

**Weidmüller Interface GmbH & Co. KG**

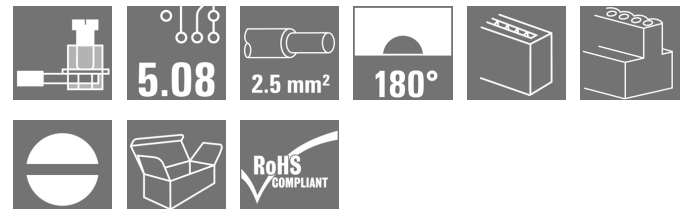
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

### Product image



Similar to illustration

Female header with clamping yoke connection system. The principle of the vibration-proof screw connection and the Unimate range pin arrangement provides a unique security during operation. Also available with dovetail (B) for convenient attachment of fixing blocks. The BLA has a labelling panel and can be coded. Supplied in cardboard box.

### General ordering data

|              |   |
|--------------|---|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.32 mm², Box |
| Order No.    | <a href="#">1281860000</a>  |
| Type         | BLA 3 SN OR   |
| GTIN (EAN)   | 4008 190074630  |
| Qty.         | 120 pc(s).  |
| Product data | IEC: 400 V / 17.5 A / 0.2 - 2.5 mm²<br>UL: 300 V / 10 A / AWG 28 - AWG 16   |
| Packaging    | Box   |

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 20 mm    | Depth (inches)  | 0.787 inch |
| Height     | 15.2 mm  | Height (inches) | 0.598 inch |
| Width      | 15.24 mm | Width (inches)  | 0.6 inch   |
| Net weight | 5.742 g  |                 |            |

## System Parameters

|   |   |                            |                     |
|---|---|----------------------------|---------------------|
| Product family                                  | OMNIMATE Signal - series<br>BLA/SLA 5.08            | Type of connection         | Field connection    |
| Wire connection method                          | Clamping yoke connection                            | Pitch in mm (P)            | 5.08 mm             |
| Pitch in inches (P)                             | 0.2 inch  | Conductor outlet direction | 180°                |
| Number of poles                                 | 3   | L1 in mm                   | 10.16 mm            |
| L1 in inches                                    | 0.4 inch  | Number of rows             | 1                   |
| Pin series quantity                             | 1   | Rated cross-section        | 2.5 mm <sup>2</sup> |
| Touch-safe protection acc. to DIN VDE<br>57 106 | finger-safe unplugged/<br>back-of-hand-safe plugged | Volume resistance          | 5.50 mΩ             |
| Can be coded                                    | Yes   | Stripping length           | 7 mm                |
| Tightening torque, min.                         | 0.4 Nm  | Tightening torque, max.    | 0.5 Nm              |
| Clamping screw                                  | M 2.5   | Screwdriver blade          | 0.6 x 3.5           |
| Screwdriver blade standard                      | DIN 5264  | Plugging cycles            | 25                  |
| Pulling force/pole, max.                        | 2 N   |                            |                     |

## Material data

|                                       |                            |                                       |        |
|---------------------------------------|----------------------------|---------------------------------------|--------|
| Insulating material                   | PBT GF                     | Colour                                | orange |
| Colour chart (similar)                | RAL 2000                   | Insulating material group             | IIIa   |
| Comparative Tracking Index (CTI)      | ≥ 200                      | UL 94 flammability rating             | V-0    |
| Contact material                      | CuSn                       | Contact surface                       | tinned |
| Layer structure of plug contact       | 4...8 μm Sn hot-dip tinned | Storage temperature, min.             | -40 °C |
| Storage temperature, max.             | 70 °C                      | Operating temperature, min.           | -50 °C |
| Operating temperature, max.           | 120 °C                     | Temperature range, installation, min. | -25 °C |
| Temperature range, installation, max. | 120 °C                     |                                       |        |

## Conductors suitable for connection

|  |                      |  |  |
|--|----------------------|--|--|
| Clamping range, min.                               | 0.13 mm <sup>2</sup> | Clamping range, max.                               | 3.32 mm <sup>2</sup>   |
| Wire connection cross section AWG,<br>min.         | AWG 28               | Wire connection cross section AWG,<br>max.         | AWG 16   |
| Solid, min. H05(07) V-U                            | 0.2 mm <sup>2</sup>  | Solid, max. H05(07) V-U                            | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                         | 0.2 mm <sup>2</sup>  | Flexible, max. H05(07) V-K                         | 1.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4,<br>min. | 0.2 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4,<br>max. | 1.5 mm <sup>2</sup>  |
| w. wire end ferrule, DIN 46228 pt 1,<br>min.       | 0.2 mm <sup>2</sup>  | w. wire end ferrule, DIN 46228 pt 1,<br>max.       | 1.5 mm <sup>2</sup>  |
| Plug gauge in accordance with EN<br>60999 a x b; ø | 2.4 mm x 1.5 mm      | Reference text                                     | The outside diameter of<br>the plastic collar should<br>not be larger than the pitch<br>(P). Length of ferrules is to<br>be chosen depending on<br>the product and the rated<br>voltage. |

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## Rated data acc. to IEC

|   |                        |   |                   |
|---|------------------------|---|-------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 17.5 A            |
| Rated current, max. number of poles (Tu=20°C)                             | 12.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 16 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 11 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 400 V             |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s with 100 A |

## Rated data acc. to CSA

|                                   |   |                                   |           |
|-----------------------------------|---|-----------------------------------|-----------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 12400-158 |
| Rated voltage (Use group B / CSA) | 300 V   | Rated voltage (Use group D / CSA) | 300 V     |
| Rated current (Use group B / CSA) | 10 A  | Rated current (Use group D / CSA) | 10 A      |
| Wire cross-section, AWG, min.     | AWG 28  | Wire cross-section, AWG, max.     | AWG 16    |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.            |                                   |           |

## Rated data acc. to UL 1059

|                                       |   |                                       |        |
|---------------------------------------|---|---------------------------------------|--------|
| Institute (UR)                        |  | Certificate No. (UR)                  | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V   | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 10 A  | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 28  | Wire cross-section, AWG, max.         | AWG 16 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 349 mm |
| VPE width | 136 mm | VPE height | 31 mm  |

## 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 |             |             |

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## 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>• Gold-plated contact surfaces 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>• 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 | E60693  |

## Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>  |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FL INDUSTR.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY 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> |

**Dimensional drawing**

