

**SLS 5.08/03/180 SN BK BX****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

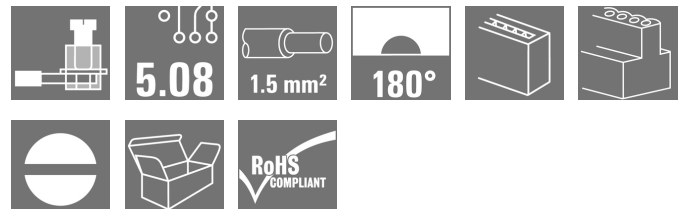
32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Product image**

Similar to illustration

Male plugs with clamping-yoke screw wire-connect system. The male plugs provide space for labelling and can be coded.

**General ordering data**

|              |                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, male plug, 5.08 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| Order No.    | <a href="#">1644930000</a>                                                                                                          |
| Type         | SLS 5.08/03/180 SN BK BX                                                                                                            |
| GTIN (EAN)   | 4008190284145                                                                                                                       |
| Qty.         | 120 pc(s).                                                                                                                          |
| Product data | IEC: 400 V / 21.5 A / 0.2 - 2.5 mm²<br>UL: 300 V / 14 A / AWG 26 - AWG 12                                                           |
| Packaging    | Box                                                                                                                                 |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 22.2 mm | Depth (inches)  | 0.874 inch |
| Height     | 15.3 mm | Height (inches) | 0.602 inch |
| Net weight | 4.83 g  |                 |            |

## System Parameters

|                                              |                                                  |                   |                 |        |
|----------------------------------------------|--------------------------------------------------|-------------------|-----------------|--------|
| Product family                               | OMNIMATE Signal - series BL/SL 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                                                |                   |                 |        |
| Touch-safe protection acc. to DIN VDE 57 106 | finger-safe plugged/ back-of-hand-safe unplugged |                   |                 |        |
| Protection degree                            | IP20                                             |                   |                 |        |
| Volume resistance                            | ≤5 mΩ                                            |                   |                 |        |
| Can be coded                                 | Yes                                              |                   |                 |        |
| Stripping length                             | 7 mm                                             |                   |                 |        |
| Clamping screw                               | M 2.5                                            |                   |                 |        |
| Screwdriver blade                            | 0.6 x 3.5                                        |                   |                 |        |
| Screwdriver blade standard                   | DIN 5264-A                                       |                   |                 |        |
| Plugging cycles                              | 25                                               |                   |                 |        |
| Plugging force/pole, max.                    | 4 N                                              |                   |                 |        |
| Pulling force/pole, max.                     | 3 N                                              |                   |                 |        |
| Tightening torque                            | Torque type                                      |                   | Wire connection |        |
|                                              | Usage information                                | Tightening torque | min.            | 0.4 Nm |
|                                              |                                                  |                   | max.            | 0.5 Nm |

## Material data

|                                       |                     |                                       |                            |
|---------------------------------------|---------------------|---------------------------------------|----------------------------|
| Colour                                | black               | Colour chart (similar)                | RAL 9011                   |
| Insulating material group             | IIIa                | Comparative Tracking Index (CTI)      | ≥ 200                      |
| Insulation strength                   | ≥ 10 <sup>8</sup> Ω | 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.           | 100 °C                     |
| Temperature range, installation, min. | -25 °C              | Temperature range, installation, max. | 100 °C                     |

## Conductors suitable for connection

|                                         |                      |
|-----------------------------------------|----------------------|
| Clamping range, min.                    | 0.13 mm <sup>2</sup> |
| Clamping range, max.                    | 3.31 mm <sup>2</sup> |
| Wire connection cross section AWG, min. | AWG 26               |
| Wire connection cross section AWG, max. | AWG 12               |
| 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              | 2.5 mm <sup>2</sup>  |

Creation date September 16, 2022 8:49:34 AM CEST

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w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm<sup>2</sup> min.w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm<sup>2</sup> max.w. wire end ferrule, DIN 46228 pt 1, 0.2 mm<sup>2</sup> min.w. wire end ferrule, DIN 46228 pt 1, 2.5 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

|                     |                                        |                              |                         |      |
|---------------------|----------------------------------------|------------------------------|-------------------------|------|
| Clampable conductor | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 0.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.5/6</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 1 mm <sup>2</sup>       |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 1.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 7 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.5/7</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 2.5 mm <sup>2</sup>     |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 7 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H2.5/7</a>  |      |
|                     | Cross-section for conductor connection | Type                         | fine-wired              |      |
|                     |                                        | nominal                      | 0.75 mm <sup>2</sup>    |      |
|                     | wire end ferrule                       | Stripping length             | nominal                 | 6 mm |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.75/6</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.

## Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

|                                                                           |       |
|---------------------------------------------------------------------------|-------|
| Rated current, max. number of poles (Tu=20°C)                             | 16 A  |
| Rated current, max. number of poles (Tu=40°C)                             | 14 A  |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV  |

|                                                                       |                   |
|-----------------------------------------------------------------------|-------------------|
| Rated current, min. number of poles (Tu=20°C)                         | 21.5 A            |
| Rated current, min. number of poles (Tu=40°C)                         | 18 A              |
| Rated voltage for surge voltage class / pollution degree II/2         | 400 V             |
| Rated voltage for surge voltage class / pollution degree III/3        | 250 V             |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV              |
| Short-time withstand current resistance                               | 3 x 1s with 120 A |

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## Technical data

## Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

www.weidmueller.com

200039-1121690

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / CSA) | 300 V                                                                  |
| Rated current (Use group B / CSA) | 15 A                                                                   |
| Wire cross-section, AWG, min.     | AWG 26                                                                 |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, max.     | AWG 12 |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 30 mm  |
| VPE width | 135 mm | VPE height | 350 mm |

## Type tests

|                                                           |                |                                               |           |
|-----------------------------------------------------------|----------------|-----------------------------------------------|-----------|
| Test: Durability of markings                              | Standard       | VDE 0627 Tab. 7 item 3/6.86                   |           |
|                                                           | Test           | durability                                    |           |
|                                                           | Evaluation     | passed                                        |           |
| Test: Clampable cross section                             | Standard       | VDE 0609 part 1 06.83, EN 60947-1 03.91       |           |
|                                                           | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 |
|                                                           |                | Type of conductor and conductor cross-section | H05V-K0.5 |
|                                                           |                | Type of conductor and conductor cross-section | H05V-U2.5 |
|                                                           |                | Type of conductor and conductor cross-section | H05V-K2.5 |
|                                                           |                | Type of conductor and conductor cross-section | AWG 28    |
|                                                           |                | Type of conductor and conductor cross-section | AWG 14    |
|                                                           | Evaluation     | passed                                        |           |
| Test for damage to and accidental loosening of conductors | Standard       | EN 60947-1/1991 section 8.2.4.3               |           |
|                                                           | Requirement    | 0.3 kg                                        |           |
|                                                           | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 |
|                                                           |                | Type of conductor and conductor cross-section | H05V-K0.5 |
|                                                           | Evaluation     | passed                                        |           |
|                                                           | Requirement    | 0.7 kg                                        |           |
|                                                           | Conductor type | Type of conductor and conductor cross-section | H07V-U2.5 |
|                                                           |                | Type of conductor and conductor cross-section | H07V-K2.5 |
|                                                           | Evaluation     | passed                                        |           |

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|---------------|----------------|-----------------------------------------------|-----------|
| Pull-out test | Standard       | EN 60947-1/1991 section 8.2.4.4               |           |
|               | Requirement    | ≥5 N info@weidmueller.com                     |           |
|               | Conductor type | Type of conductor and conductor cross-section | AWG 28/1  |
|               |                | Type of conductor and conductor cross-section | AWG 28/7  |
|               | Evaluation     | passed                                        |           |
|               | Requirement    | ≥50 N                                         |           |
|               | Conductor type | Type of conductor and conductor cross-section | H07V-U2.5 |
|               |                | Type of conductor and conductor cross-section | H07V-K2.5 |
|               |                | Type of conductor and conductor cross-section | AWG 14/19 |
|               | Evaluation     | passed                                        |           |

## 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

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- 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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

## Approvals

## Approvals



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

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

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[info@weidmueller.com](mailto:info@weidmueller.com)**Technical data****Downloads**

|                  |                                                              |                                                              |
|------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Engineering Data | <a href="#">CAD data – STEP</a>                              | <a href="http://www.weidmueller.com">www.weidmueller.com</a> |
| Catalogues       | <a href="#">Catalogues in PDF-format</a>                     |                                                              |
| Brochures        | <a href="#">FL DRIVES EN</a><br><a href="#">FL DRIVES DE</a> |                                                              |

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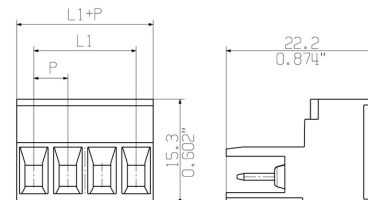
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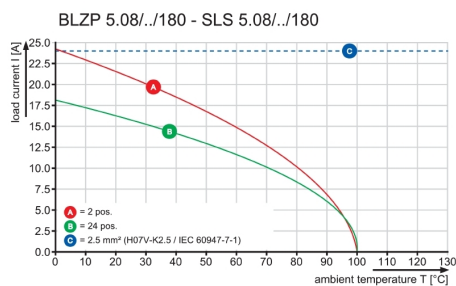
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# Drawings

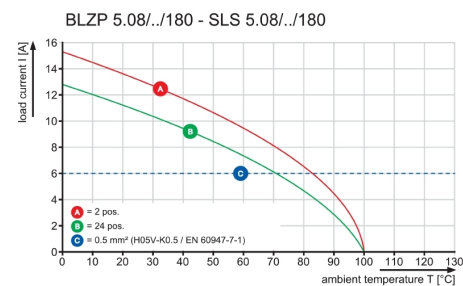
**Dimensional drawing** [info@weidmueller.com](mailto:info@weidmueller.com)



## Graph



## Graph



## Graph

