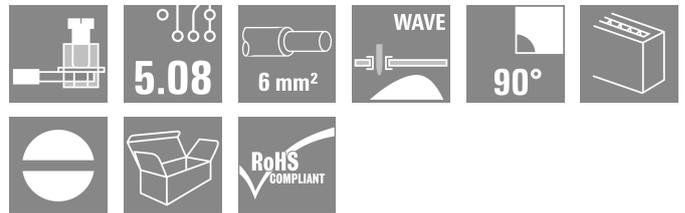
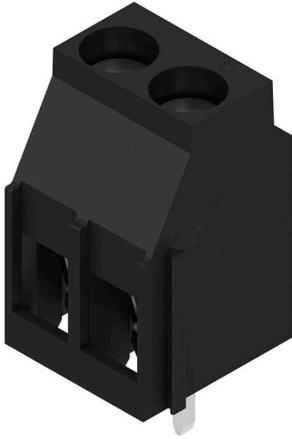


## LL 5.08/02/90 4.5SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

### Product image



This PCB terminal provides connections for 32 A and 6 mm<sup>2</sup> conductor cross-section with the proven clamping-yoke connection, in 5.00 and 5.08 mm pitch. 90° conductor outlet direction.

### General ordering data

|              |   |
|--------------|---|
| Version      | Printed circuit board terminals, 5.08 mm, Number of poles: 2, 90°, Solder pin length (l): 4.5 mm, tinned, black, Clamping yoke connection, Clamping range, max. : 6 mm <sup>2</sup> , Box |
| Order No.    | <a href="#">2567300000</a>  |
| Type         | LL 5.08/02/90 4.5SN BK BX   |
| GTIN (EAN)   | 4050118608885   |
| Qty.         | 168 items   |
| Product data | IEC: 500 V / 32.5 A / 0.5 - 6 mm <sup>2</sup><br>UL: 300 V / 20 A / AWG 26 - AWG 12   |
| Packaging    | Box   |

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## Technical data

## Approvals

Approvals



|                       |                            |
|-----------------------|----------------------------|
| ROHS                  | Conform                    |
| UL File Number Search | <a href="#">UL Website</a> |
| Certificate No. (UR)  | E60693                     |

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 11 mm       | Depth (inches)  | 0.4331 inch |
| Height                   | 21.6 mm     | Height (inches) | 0.8504 inch |
| Height of lowest version | 17.1 mm     | Width           | 10.81 mm    |
| Width (inches)           | 0.4256 inch | Net weight      | 3.25 g      |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## System parameters

|  |                             |  |                          |
|--|-----------------------------|--|--------------------------|
| Product family                               | OMNIMATE Signal - series LL | Wire connection method                     | Clamping yoke connection |
| Property, clamping point                     | WireReady                   | Mounting onto the PCB                      | THT solder connection    |
| Conductor outlet direction                   | 90°                         | Pitch in mm (P)                            | 5.08 mm                  |
| Pitch in inches (P)                          | 0.200 "                     | Number of poles                            | 2                        |
| Pin series quantity                          | 1                           | Fitted by customer                         | Yes                      |
| Number of rows                               | 1                           | Max. adjacent poles per row                | 24                       |
| Solder pin length (l)                        | 4.5 mm                      | Solder pin dimensions                      | 0.75 x 0.9 mm            |
| Solder eyelet hole diameter (D)              | 1.3 mm                      | Solder eyelet hole diameter tolerance (D)  | + 0,1 mm                 |
| Number of solder pins per pole               | 1                           | Screwdriver blade                          | 0.6 x 3.5                |
| Screwdriver blade standard                   | DIN 5264                    | Tightening torque, min.                    | 0.5 Nm                   |
| Tightening torque, max.                      | 0.6 Nm                      | Clamping screw                             | M 3                      |
| Stripping length                             | 6 mm                        | L1 in mm                                   | 5.08 mm                  |
| L1 in inches                                 | 0.200 "                     | Touch-safe protection acc. to DIN VDE 0470 | IP 20                    |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch      | Protection degree                          | IP20                     |
| Volume resistance                            | 1.20 mΩ                     |  |                          |

## Material data

|                                       |            |                                       |                  |
|---------------------------------------|------------|---------------------------------------|------------------|
| Insulating material                   | Wemid (PA) | Colour                                | black            |
| Colour chart (similar)                | RAL 9011   | Insulating material group             | I                |
| Comparative Tracking Index (CTI)      | ≥ 600      | Moisture Level (MSL)                  |                  |
| UL 94 flammability rating             | V-0        | Contact material                      | Cu-alloy         |
| Contact surface                       | tinned     | Coating                               | 4-6 μm SN        |
| Tinning type                          | matt       | Layer structure of solder connection  | 4...6 μm Sn matt |
| 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           |

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**Technical data**

**Conductors suitable for connection**

|   |                         |
|---|-------------------------|
| Clamping range, min.  | 0.13 mm <sup>2</sup>    |
| Clamping range, max.  | 6 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   | 0.5 mm <sup>2</sup>     |
| Solid, max. H05(07) V-U   | 6 mm <sup>2</sup>       |
| Flexible, min. H05(07) V-K  | 0.5 mm <sup>2</sup>     |
| Flexible, max. H05(07) V-K  | 4 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, 2.5 mm <sup>2</sup> max. |                         |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.5 mm <sup>2</sup>     |
| w. wire end ferrule, DIN 46228 pt 1, max.                           | 2.5 mm <sup>2</sup>     |
| Plug gauge in accordance with EN 60999 a x b; ø                     | 2.8 mm x 2.4 mm; 3.0 mm |

|  |  |                              |                            |      |
|--|--|------------------------------|----------------------------|------|
| Clampable conductor                    | Cross-section for conductor connection | Type                         | fine-wired                 |      |
|  |  | nominal                      | 0.5 mm <sup>2</sup>        |      |
|  | wire end ferrule                       | Stripping length             | nominal                    | 8 mm |
|  |  | Recommended wire-end ferrule | <a href="#">H0,5/12 OR</a> |      |
|  |  | Stripping length             | nominal                    | 6 mm |
|  |  | Recommended wire-end ferrule | <a href="#">H0,5/6</a>     |      |
|  | Cross-section for conductor connection | Type                         | fine-wired                 |      |
|  |  | nominal                      | 0.75 mm <sup>2</sup>       |      |
|  | wire end ferrule                       | Stripping length             | nominal                    | 8 mm |
|  |  | Recommended wire-end ferrule | <a href="#">H0,75/12 W</a> |      |
|  |  | Stripping length             | nominal                    | 6 mm |
|  |  | Recommended wire-end ferrule | <a href="#">H0,75/6</a>    |      |
| Cross-section for conductor connection | Type                                   | fine-wired                   |                            |      |
|  | nominal                                | 1 mm <sup>2</sup>            |                            |      |
| wire end ferrule                       | Stripping length                       | nominal                      | 8 mm                       |      |
|  | Recommended wire-end ferrule           | <a href="#">H1,0/12 GE</a>   |                            |      |
|  | Stripping length                       | nominal                      | 6 mm                       |      |
|  | Recommended wire-end ferrule           | <a href="#">H1,0/6</a>       |                            |      |

Reference text Length of ferrules is to be chosen depending on the product and the rated voltage.. The outside diameter of the plastic collar should not be larger than the pitch (P)

**Rated data acc. to IEC**

|  |                        |  |        |
|--|------------------------|--|--------|
| tested acc. to standard  | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                  | 32.5 A |
| Rated current, max. number of poles (Tu=20°C)                  | 26 A                   | Rated current, min. number of poles (Tu=40°C)                  | 27.5 A |
| Rated current, max. number of poles (Tu=40°C)                  | 22 A                   | Rated voltage for surge voltage class / pollution degree II/2  | 500 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  |

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## Technical data

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 impulse voltage for surge voltage class/ pollution degree III/2 4 kV

Short-time withstand current resistance 3 x 1s with 120 A

### Rated data acc. to CSA

Rated voltage (Use group B / CSA) 300 V

Rated current (Use group B / CSA) 20 A

Wire cross-section, AWG, min. AWG 26

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group D / CSA) 10 A

Wire cross-section, AWG, max. AWG 12

### Rated data acc. to UL 1059

Institute (UR) UR

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 20 A

Wire cross-section, AWG, min. AWG 26

Reference to approval values Specifications are maximum values, details - see approval certificate.

Certificate No. (UR) E60693

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 12

### Packing

Packaging Box VPE length 348.00 mm

VPE width 134.00 mm VPE height 30.00 mm

### Type tests

|   |   |  |                               |
|---|---|--|-------------------------------|
| Test: Durability of markings                              | Test  | mark of origin, type identification, type of material, approval marking UL, approval marking CSA, durability |                               |
|   | Evaluation                                    | available  |                               |
| Test: Clampable cross section                             | Standard                                      | IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11                                 |                               |
|   | Conductor type                                | Type of conductor and conductor cross-section  | solid 0.14 mm <sup>2</sup>    |
|   |   | Type of conductor and conductor cross-section  | stranded 0.14 mm <sup>2</sup> |
|   |   | Type of conductor and conductor cross-section  | H07V-U4.0                     |
|   |   | Type of conductor and conductor cross-section  | H07V-K4                       |
|   |   | Type of conductor and conductor cross-section  | AWG 26/1                      |
|   |   | Type of conductor and conductor cross-section  | AWG 26/19                     |
|   |   | Type of conductor and conductor cross-section  | AWG 12/1                      |
|   | Type of conductor and conductor cross-section | AWG 12/19  |                               |
| Evaluation  | passed  |  |                               |
| Test for damage to and accidental loosening of conductors | Standard                                      | IEC 60999-1 section 9.4 / 11.99  |                               |
|   | Requirement                                   | 0.2 kg   |                               |

Technical data

|                |   |   |           |
|----------------|---|---|-----------|
| Pull-out test  | Conductor type                                | Type of conductor and conductor cross-section | AWG 26/1  |
|                |   | Type of conductor and conductor cross-section | AWG 26/19 |
|                | Evaluation                                    | passed  |           |
|                | 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                                   | 0.9 kg  |           |
|                | Conductor type                                | Type of conductor and conductor cross-section | H07V-U4.0 |
|                |   | Type of conductor and conductor cross-section | H07V-K4.0 |
|                |   | Type of conductor and conductor cross-section | AWG 12/1  |
|                |   | Type of conductor and conductor cross-section | AWG 12/19 |
|                | Evaluation                                    | passed  |           |
|                | Standard                                      | IEC 60999-1 section 9.5 / 11.99               |           |
|                | Requirement                                   | ≥10 N   |           |
| Conductor type | Type of conductor and conductor cross-section | AWG 26/1                                      |           |
|                | Type of conductor and conductor cross-section | AWG 26/19                                     |           |
| Evaluation     | passed  |   |           |
| Requirement    | ≥20 N   |   |           |
| 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    | ≥60 N   |   |           |
| Conductor type | Type of conductor and conductor cross-section | H07V-U4.0                                     |           |
|                | Type of conductor and conductor cross-section | H07V-K4.0                                     |           |
|                | Type of conductor and conductor cross-section | AWG 12/1                                      |           |
|                | Type of conductor and conductor cross-section | AWG 12/19                                     |           |
| Evaluation     | passed  |   |           |

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## Technical data

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

### Important note

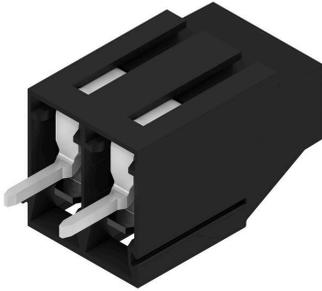
|                |   |
|----------------|---|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.  |
| Notes          | <ul style="list-style-type: none"> <li>• 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>• 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>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

### Classifications

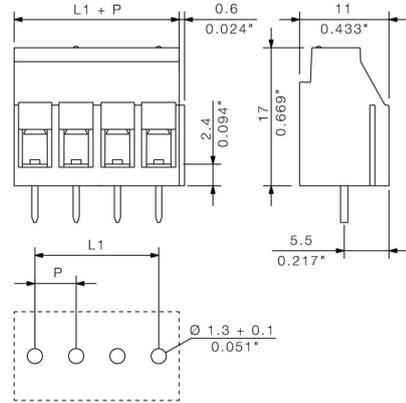
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ETIM 10.0   | EC002643    | ECLASS 14.0 | 27-46-01-01 |
| ECLASS 15.0 | 27-46-01-01 |             |             |

Drawings

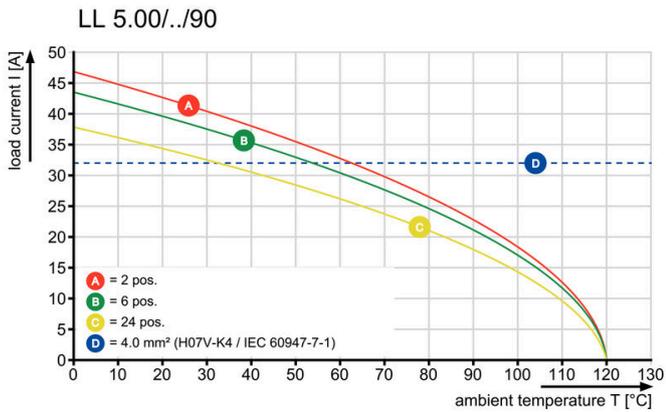
Product image



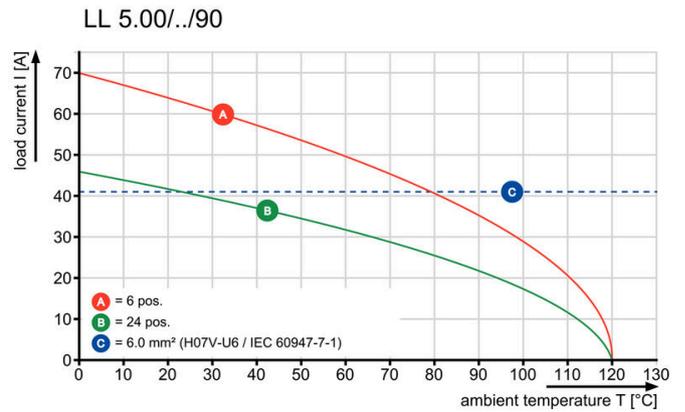
Dimensional drawing



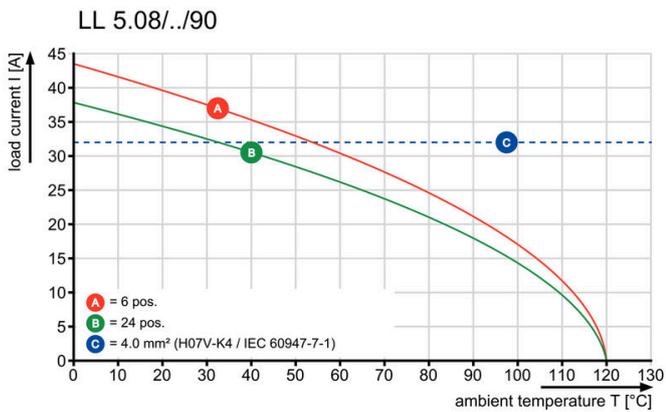
Graph



Graph



Graph



**Accessories**

**Slotted screwdriver**



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

**General ordering data**

|            |                            |                          |  |
|------------|----------------------------|--------------------------|--|
| Type       | SDIS 0.6X3.5X100           | Version                  |  |
| Order No.  | <a href="#">9008390000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4032248056354              |                          |  |
| Qty.       | 1 ST                       |                          |  |
| Type       | SDS 0.6X3.5X100            | Version                  |  |
| Order No.  | <a href="#">9008330000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4032248056286              |                          |  |
| Qty.       | 1 ST                       |                          |  |
| Type       | SDS 0.6X3.5X200            | Version                  |  |
| Order No.  | <a href="#">9010110000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4032248300754              |                          |  |
| Qty.       | 1 ST                       |                          |  |