

**OMNIMATE Signal - series LL**  
**LL 6.35/09/90V 5.0SN BK BX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

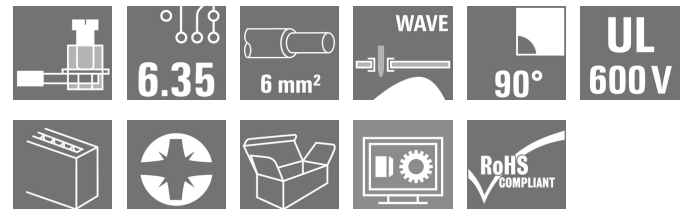
D-32758 Detmold

Germany

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This PCB terminal, pitch 6.35 mm, with proven clamping yoke connection provides the following features: connections for 1000 V, 32 A, 6 mm<sup>2</sup> conductor cross-section, and off-set solder pins, 90° conductor outlet direction.

- 0.18 - 6.0 mm<sup>2</sup> (IEC) / 26 - 10 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 32 A (IEC) / 30 A (UL)

**General ordering data**

|              |  |
|--------------|--|
| Type         | LL 6.35/09/90V 5.0SN BK BX   |
| Order No.    | <a href="#">1356920000</a>   |
| Version      | PCB terminal, 6.35 mm, No. of poles: 9, 90°, Solder pin length (l): 5 mm, tinned, Black, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm <sup>2</sup> , Box |
| GTIN (EAN)   | 4050118214680  |
| Qty.         | 50 pc(s).  |
| Product data | IEC: 1000 V / 32 A / 0.18 - 6 mm <sup>2</sup><br>UL: 600 V / 30 A / AWG 26 - AWG 10  |
| Packaging    | Box  |

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

Net weight 25.825 g

**System parameters**

|  |                             |  |                          |
|--|-----------------------------|--|--------------------------|
| Product family                             | OMNIMATE Signal - series LL | Wire connection method                       | Clamping yoke connection |
| Mounting onto the PCB                      | THT solder connection       | Conductor outlet direction                   | 90°                      |
| Pitch in mm (P)                            | 6.35 mm                     | Pitch in inches (P)                          | 0.25 inch                |
| No. of poles                               | 9                           | Fitted by customer                           | No                       |
| Max. adjacent poles per row                | 24                          | Solder pin length (l)                        | 5 mm                     |
| Solder pin dimensions                      | 1.0 x 0.6 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                          | 0.8 x 4.0, PZ 1             | Screwdriver blade standard                   | DIN 5264                 |
| Tightening torque, min.                    | 0.5 Nm                      | Tightening torque, max.                      | 0.6 Nm                   |
| Clamping screw                             | M 3                         | Stripping length                             | 8 mm                     |
| L1 in mm                                   | 50.8 mm                     | L1 in inches                                 | 2 inch                   |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20                       | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch   |

**Material data**

|                                       |            |                                       |                            |
|---------------------------------------|------------|---------------------------------------|----------------------------|
| Insulating material                   | Wemid (PA) | Colour                                | Black                      |
| Colour chart (similar)                | RAL 9011   | Insulating material group             | I                          |
| CTI                                   | ≥ 600      | Insulation resistance                 | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0        | Contact material                      | Copper alloy               |
| Contact surface                       | tinned     | Coating                               | 4-6 μm SN                  |
| Tinning type                          | matt       | Layer structure of solder connection  | 2-4 μm Ni / 4-6 μm Sn matt |
| Storage temperature, min.             | -25 °C     | Storage temperature, max.             | 55 °C                      |
| Max. relative humidity during storage | 80 %       | 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, rated connection, min.          | 0.18 mm <sup>2</sup>    | Clamping range, rated connection, max.          | 6 mm <sup>2</sup>   |
| Wire connection cross section AWG, min.         | AWG 26                  | Wire connection cross section AWG, max.         | AWG 10              |
| Solid, min. H05(07) V-U                         | 0.18 mm <sup>2</sup>    | Solid, max. H05(07) V-U                         | 6 mm <sup>2</sup>   |
| Flexible, min. H05(07) V-K                      | 0.22 mm <sup>2</sup>    | Flexible, max. H05(07) V-K                      | 4 mm <sup>2</sup>   |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm <sup>2</sup>     | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.5 mm <sup>2</sup>     | w. wire end ferrule, DIN 46228 pt 1, max.       | 4 mm <sup>2</sup>   |
| Plug gauge acc. to EN 60999 a x b; Ø            | 3.6 mm x 3.1 mm; 2.7 mm |   |                     |

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**Technical data**


**Rated data acc. to IEC**

|   |                        |   |                   |
|---|------------------------|---|-------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. no. of poles (Ta = 20°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 20°C)                              | 32 A                   | Rated current, min. no. of poles (Ta = 40°C)                          | 32 A              |
| Rated current, max. no. of poles (Ta = 40°C)                              | 32 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      | 8 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 120 A |

**Rated data acc. to CSA**

|                               |   |                               |                |
|-------------------------------|---|-------------------------------|----------------|
| Institute (CSA)               |  | Certificate No. (CSA)         | 200039-1202191 |
| Rated voltage (Use group B)   | 600 V   | Rated voltage (Use group C)   | 600 V          |
| Rated voltage (use group D)   | 600 V   | Rated current (use group B)   | 30 A           |
| Rated current (use group C)   | 30 A  | Rated current (use group D)   | 5 A            |
| Wire cross-section, AWG, min. | AWG 26  | Wire cross-section, AWG, max. | AWG 10         |
| 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)   | 600 V   | Rated voltage (use group C)   | 600 V  |
| Rated voltage (use group D)   | 600 V   | Rated current (use group B)   | 30 A   |
| Rated current (use group C)   | 30 A  | Rated current (use group D)   | 5 A    |
| Wire cross-section, AWG, min. | AWG 26  | Wire cross-section, AWG, max. | AWG 10 |
| Reference to approval values  | Specifications are maximum values, details - see approval certificate.              |                               |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001284    | ETIM 4.0   | EC002643    |
| ETIM 5.0   | EC002643    | ETIM 6.0   | EC002643    |
| eClass 6.2 | 27-26-11-01 | eClass 7.1 | 27-44-04-01 |
| eClass 8.1 | 27-44-04-01 | eClass 9.0 | 27-44-04-01 |
| eClass 9.1 | 27-44-04-01 |            |             |

**Data sheet**

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**Technical data**

**Notes**

|                |  |
|----------------|--|
| 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 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> </ul> |
| IPC conformity | The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.   |

**Approvals**

Approvals



ROHS Conform

**Downloads**

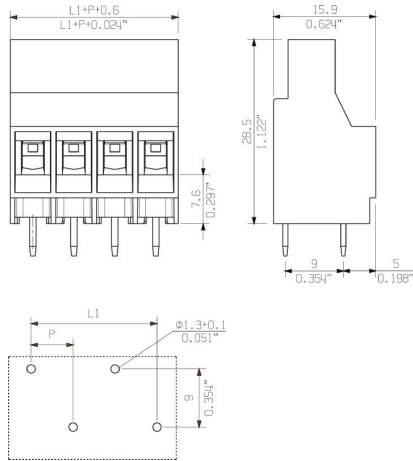
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>   |
| Brochure/Catalogue                          | <a href="#">FL DRIVES EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">CAT 2 PORTFOLIOGUIDE EN</a><br><a href="#">FL 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>  |
| Motion controllers white paper              | <a href="#">Download Whitepaper</a>   |
| White Paper UL 600 V                        | <a href="#">Download Whitepaper</a>   |

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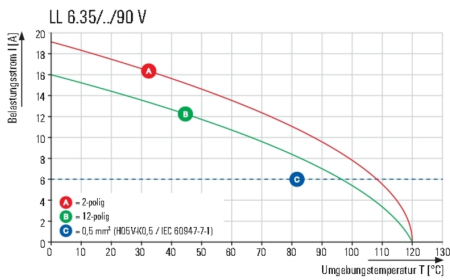
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**Drawings**

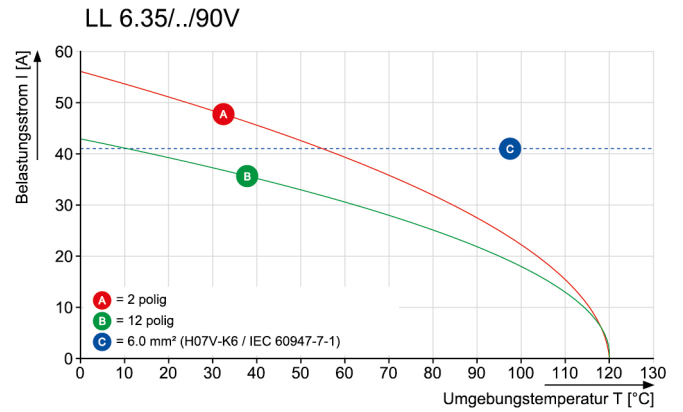
**Dimensional drawing**



**Graph**



**Graph**



## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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