

**LXXX 15.00/09/90FL 4.5SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

The high-current PCB connection for more power on board: 150 A / 1000 V with wires up to 50 mm<sup>2</sup>, transmitted right to the PCB!

The LXXX 15.0 – with its proven steel clamping-yoke technology in a compact standard housing – integrates the latest market requirements for security, power density and miniaturization in power electronics. It connects these requirements into an efficient solution for the entire value-creation chain – including development, production, installation and maintenance.

The function and form of the application's connection method plays a key role. It influences the application's design, reliability, usability and costs. With the Substitution of

For example, with the replacement of complex constructions involving bolts or bus bars, the PCB can be transformed into a system platform that is both consistent and sustainable into the future – even for high-current applications.

The LXXX 15.0 reduces size and complexity while at the same time improving application integration. In so doing, it fulfils the requirements of power electronics better than the established mechanisms and connection elements.

**General ordering data**

|              |                                                                                                                                                                                            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, 15.00 mm, Number of poles: 9, 90°, Solder pin length (l): 4.5 mm, tinned, black, Clamping yoke connection, Clamping range, max.: 50 mm <sup>2</sup> , Box |
| Order No.    | <a href="#">1386930000</a>                                                                                                                                                                 |
| Type         | LXXX 15.00/09/90FL 4.5SN BK BX                                                                                                                                                             |
| GTIN (EAN)   | 4050118187649                                                                                                                                                                              |
| Qty.         | 8 pc(s).                                                                                                                                                                                   |
| Product data | IEC: 1000 V / 150 A / 0.5 - 50 mm <sup>2</sup><br>UL: 600 V / 126 A / AWG 20 - AWG 1                                                                                                       |
| Packaging    | Box                                                                                                                                                                                        |

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## Technical data

## Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Depth                    | 31 mm      | Depth (inches)  | 1.22 inch  |
| Height                   | 56 mm      | Height (inches) | 2.205 inch |
| Height of lowest version | 51.5 mm    | Width           | 150.5 mm   |
| Width (inches)           | 5.925 inch | Net weight      | 266.795 g  |

## System parameters

|                                 |                              |                                            |                          |
|---------------------------------|------------------------------|--------------------------------------------|--------------------------|
| Product family                  | OMNIMATE Power - series LXXX | Wire connection method                     | Clamping yoke connection |
| Mounting onto the PCB           | THT solder connection        | Conductor outlet direction                 | 90°                      |
| Pitch in mm (P)                 | 15 mm                        | Pitch in inches (P)                        | 0.591 "                  |
| Number of poles                 | 9                            | Pin series quantity                        | 1                        |
| Fitted by customer              | No                           | Number of rows                             | 1                        |
| Solder pin length (l)           | 4.5 mm                       | Solder pin dimensions                      | 1.2 x 1.2 mm             |
| Solder eyelet hole diameter (D) | 1.6 mm                       | Solder eyelet hole diameter tolerance (D)+ | 0,1 mm                   |
| Number of solder pins per pole  | 4                            | Screwdriver blade                          | 1.2 x 6.5                |
| Screwdriver blade standard      | DIN 5264                     | Tightening torque, min.                    | 2.5 Nm                   |
| Tightening torque, max.         | 4 Nm                         | Clamping screw                             | M 6                      |
| Stripping length                | 18 mm                        | L1 in mm                                   | 120 mm                   |
| L1 in inches                    | 4.727 "                      | Touch-safe protection acc. to DIN VDE 0470 | IP 20                    |
| Protection degree               | IP20                         |                                            |                          |

## Material data

|                                       |            |                                       |                                  |
|---------------------------------------|------------|---------------------------------------|----------------------------------|
| Insulating material                   | Wemid (PA) | Colour                                | black                            |
| Colour chart (similar)                | RAL 9011   | Insulating material group             | I                                |
| Comparative Tracking Index (CTI)      | ≥ 600      | UL 94 flammability rating             | V-0                              |
| Contact material                      | Cu-alloy   | Contact surface                       | tinned                           |
| Coating                               | 4-6 µm SN  | Layer structure of solder connection  | 1.5...3 µm Ni / 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                           |

## Conductors suitable for connection

|                                                                     |                     |
|---------------------------------------------------------------------|---------------------|
| Clamping range, min.                                                | 0.5 mm <sup>2</sup> |
| Clamping range, max.                                                | 50 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.                             | AWG 20              |
| Wire connection cross section AWG, max.                             | AWG 1               |
| Solid, min. H05(07) V-U                                             | 0.5 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                                               | 50 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                                          | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                                          | 35 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, 35 mm <sup>2</sup> max.  |                     |
| w. wire end ferrule, DIN 46228 pt 1, 0.5 mm <sup>2</sup> min.       |                     |

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w. wire end ferrule, DIN 46228 pt 1, 35 mm<sup>2</sup>  
max.

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**Technical data**

|                                        |                                        |                              |                             |
|----------------------------------------|----------------------------------------|------------------------------|-----------------------------|
| Clampable conductor                    | Cross-section for conductor connection | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 2.5 mm <sup>2</sup>         |
| wire end ferrule                       |                                        | Stripping length             | nominal 20 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H2.5/25D BL</a> |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H2.5/18</a>     |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 4 mm <sup>2</sup>           |
| wire end ferrule                       |                                        | Stripping length             | nominal 20 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H4.0/26D GR</a> |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H4.0/18</a>     |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 6 mm <sup>2</sup>           |
| wire end ferrule                       |                                        | Stripping length             | nominal 20 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H6.0/26 SW</a>  |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H6.0/18</a>     |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 10 mm <sup>2</sup>          |
| wire end ferrule                       |                                        | Stripping length             | nominal 21 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H10.0/28 EB</a> |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H10.0/18</a>    |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 16 mm <sup>2</sup>          |
| wire end ferrule                       |                                        | Stripping length             | nominal 21 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H16.0/28 GN</a> |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H16.0/18</a>    |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 1.5 mm <sup>2</sup>         |
| wire end ferrule                       |                                        | Stripping length             | nominal 20 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H1.5/24 R</a>   |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H1.5/18</a>     |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 35 mm <sup>2</sup>          |
| wire end ferrule                       |                                        | Stripping length             | nominal 19 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H35.0/32D R</a> |
|                                        |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H35.0/18</a>    |
| Cross-section for conductor connection |                                        | Type                         | fine-wired                  |
|                                        |                                        | nominal                      | 50 mm <sup>2</sup>          |
| wire end ferrule                       |                                        | Stripping length             | nominal 18 mm               |
|                                        |                                        | Recommended wire-end ferrule | <a href="#">H50.0/18</a>    |

Creation date May 22, 2024 4:04:01 AM CEST

Catalogue status 18.05.2024 / We reserve the right to make technical changes.

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## 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  
( $T_u=40^{\circ}\text{C}$ )

150 A

Rated voltage for surge voltage class /  
pollution degree III/2

1,000 V

Rated impulse voltage for surge voltage  
class/ pollution degree II/2

8 kV

Rated impulse voltage for surge voltage  
class/ contamination degree III/3

8 kV

Rated current, min. number of poles  
( $T_u=20^{\circ}\text{C}$ )

150 A

Rated voltage for surge voltage class /  
pollution degree II/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 III/2

8 kV

## Rated data acc. to CSA

Rated voltage (Use group B / CSA)

600 V

Rated voltage (Use group D / CSA)

600 V

Rated current (Use group C / CSA)

127 A

Wire cross-section, AWG, min.

AWG 20

Rated voltage (Use group C / CSA)

600 V

Rated current (Use group B / CSA)

127 A

Rated current (Use group D / CSA)

5 A

Wire cross-section, AWG, max.

AWG 1

## Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (Use group B / UL 1059)

600 V

Rated current (Use group B / UL 1059)

126 A

Wire cross-section, AWG, min.

AWG 20

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / UL 1059)

600 V

Rated current (Use group C / UL 1059)

126 A

Wire cross-section, AWG, max.

AWG 1

## Packing

Packaging

Box

VPE length

356 mm

VPE width

142 mm

VPE height

63 mm

## Type tests

Test: Durability of markings

Test

mark of origin, type identification, type of material, pitch, date clock, approval marking CSA, approval marking UL, durability

Evaluation

available

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|                                                           |                |                                                                                    |
|-----------------------------------------------------------|----------------|------------------------------------------------------------------------------------|
| Test: Clampable cross section                             | Standard       | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02 |
|                                                           | Conductor type | Type of conductor and solid 0.5 mm <sup>2</sup> conductor cross-section            |
|                                                           |                | Type of conductor and stranded 0.5 mm <sup>2</sup> conductor cross-section         |
|                                                           |                | Type of conductor and solid 16 mm <sup>2</sup> conductor cross-section             |
|                                                           |                | Type of conductor and AWG 20/1 conductor cross-section                             |
|                                                           |                | Type of conductor and AWG 20/19 conductor cross-section                            |
|                                                           |                | Type of conductor and AWG 10/1 conductor cross-section                             |
|                                                           | Evaluation     | passed                                                                             |
| Test for damage to and accidental loosening of conductors | Standard       | DIN EN 60999-1 section 9.5 / 12.00                                                 |
|                                                           | Requirement    | 0.3 kg                                                                             |
|                                                           | Conductor type | Type of conductor and solid 0.5 mm <sup>2</sup> conductor cross-section            |
|                                                           |                | Type of conductor and stranded 0.5 mm <sup>2</sup> conductor cross-section         |
|                                                           |                | Type of conductor and AWG 20/1 conductor cross-section                             |
|                                                           |                | Type of conductor and AWG 20/19 conductor cross-section                            |
|                                                           | Evaluation     | passed                                                                             |
|                                                           | Requirement    | 1.4 kg                                                                             |
|                                                           | Conductor type | Type of conductor and AWG 10/1 conductor cross-section                             |
|                                                           | Evaluation     | passed                                                                             |
|                                                           | Requirement    | 2.0 kg                                                                             |
|                                                           | Conductor type | Type of conductor and stranded 10 mm <sup>2</sup> conductor cross-section          |
|                                                           | Evaluation     | passed                                                                             |

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|               |                |                                                                            |
|---------------|----------------|----------------------------------------------------------------------------|
| Pull-out test | Standard       | DIN EN 60999 section 8.5 / 04.94                                           |
|               | Requirement    | ≥20 N                                                                      |
|               | Conductor type | Type of conductor and solid 0.5 mm <sup>2</sup> conductor cross-section    |
|               |                | Type of conductor and stranded 0.5 mm <sup>2</sup> conductor cross-section |
|               |                | Type of conductor and AWG 20/1 conductor cross-section                     |
|               |                | Type of conductor and AWG 20/19 conductor cross-section                    |
|               | Evaluation     | passed                                                                     |
|               | Requirement    | ≥80 N                                                                      |
|               | Conductor type | Type of conductor and AWG 10/1 conductor cross-section                     |
|               |                |                                                                            |
|               | Evaluation     | passed                                                                     |
|               | Requirement    | ≥ 90N                                                                      |
|               | Conductor type | Type of conductor and stranded 10 mm <sup>2</sup> conductor cross-section  |
|               |                |                                                                            |
|               | Evaluation     | passed                                                                     |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0    | EC002643    |
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ECLASS 9.0  | 27-44-04-01 | ECLASS 9.1  | 27-44-04-01 |
| ECLASS 10.0 | 27-44-04-01 | ECLASS 11.0 | 27-46-01-01 |
| ECLASS 12.0 | 27-46-01-01 | ECLASS 13.0 | 27-46-01-01 |

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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 variants 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> <li>• IP 20 from 16 mm<sup>2</sup> to 50 mm<sup>2</sup></li> <li>• The test point can only be used as potential-pickup point.</li> <li>• Wire-end ferrules are mandatory for stranded wires with more than 19 strands.</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

### Approvals

Approvals



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

### Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                                                                                                                                                                                                                                                                                                                       |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                       |
| User Documentation                          | <a href="#">QR-Code product handling video</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 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><br><a href="#">PO OMNIMATE EN</a> |



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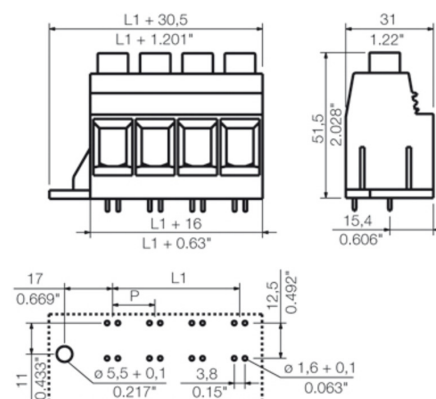
www.weidmueller.com

## Drawings

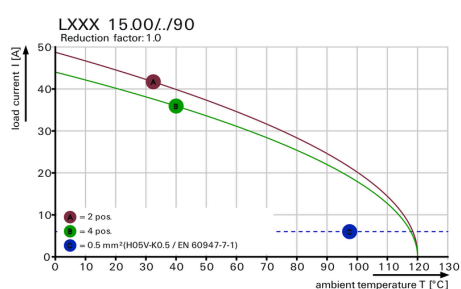
## Product image



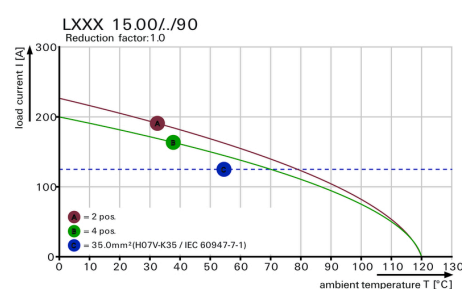
## Dimensional drawing



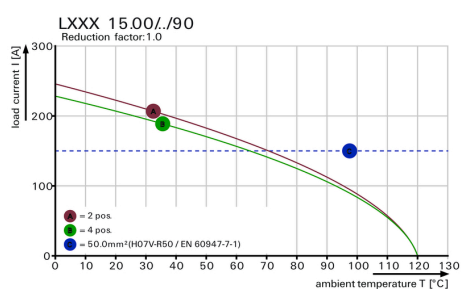
## Graph



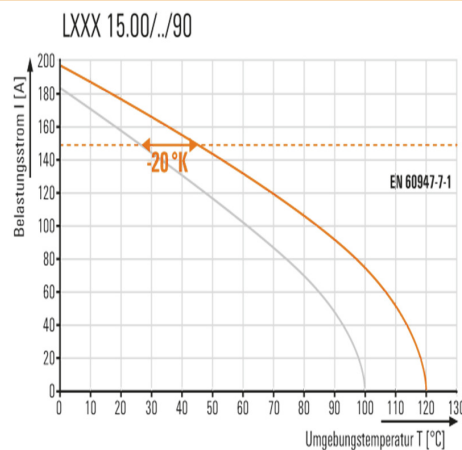
## Graph



## Graph



## Product benefits



Increased power reserves  
 Optimised application safety

**LXXX 15.00/09/90FL 4.5SN BK BX**

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## Drawings



LXXX 15.00/04/90...



HOLE PATTERN



TEST PLUG PS 2.0  
ORDER NO. 031000 0000



LXXX 15.00/04/90FL...



HOLE PATTERN



LXXX 15.00/04/90...

M 1:1



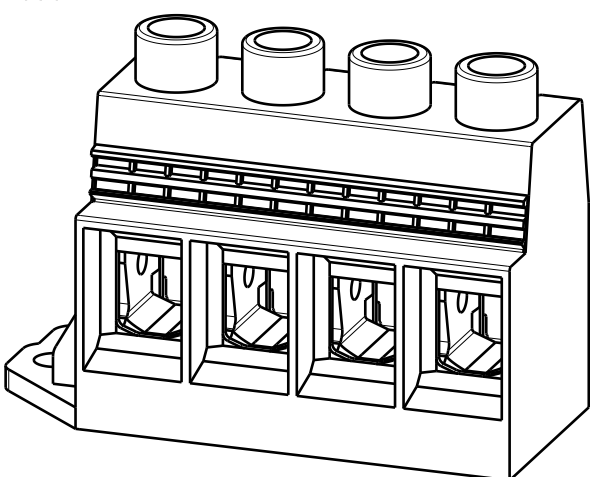
LXXX 15.00/04/90F...

M 1:1



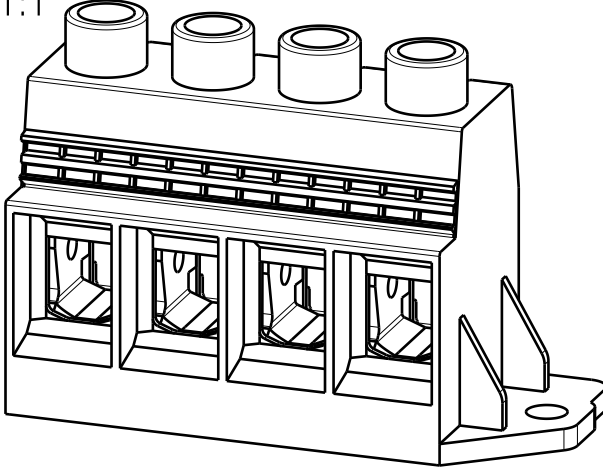
LXXX 15.00/04/90FL...

M 1:1

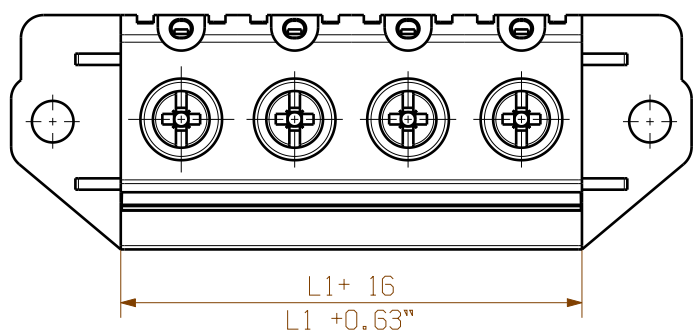


LXXX 15.00/04/90FR...

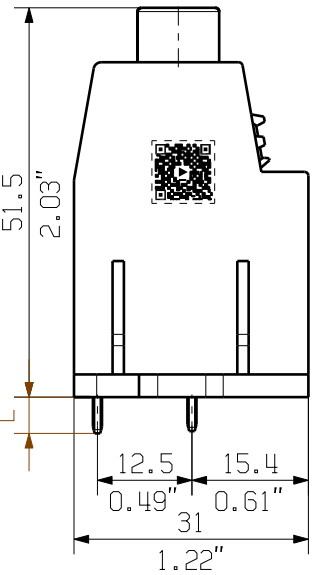
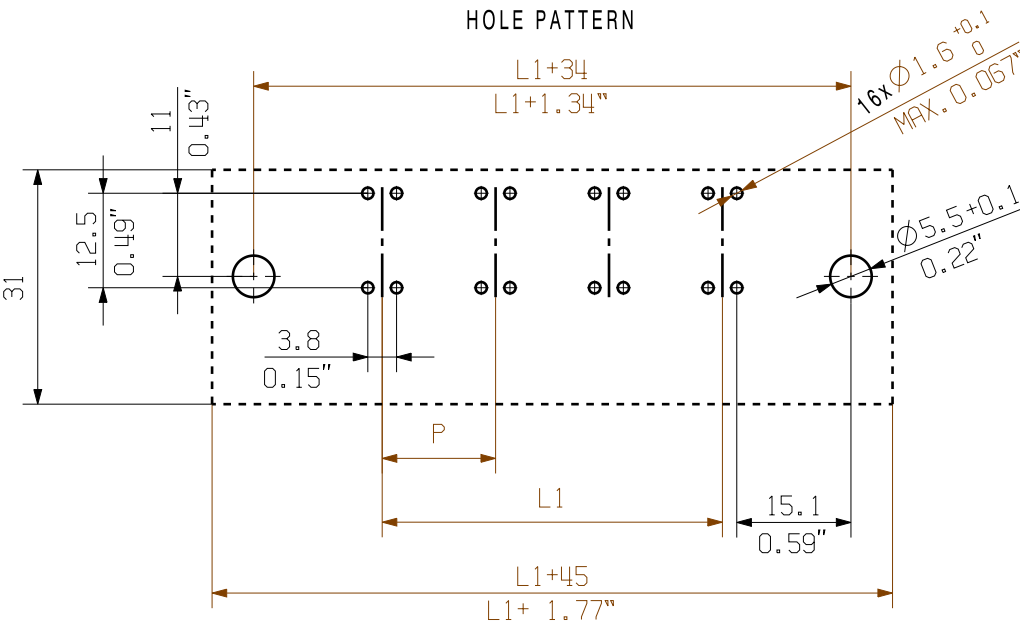
M 1:1



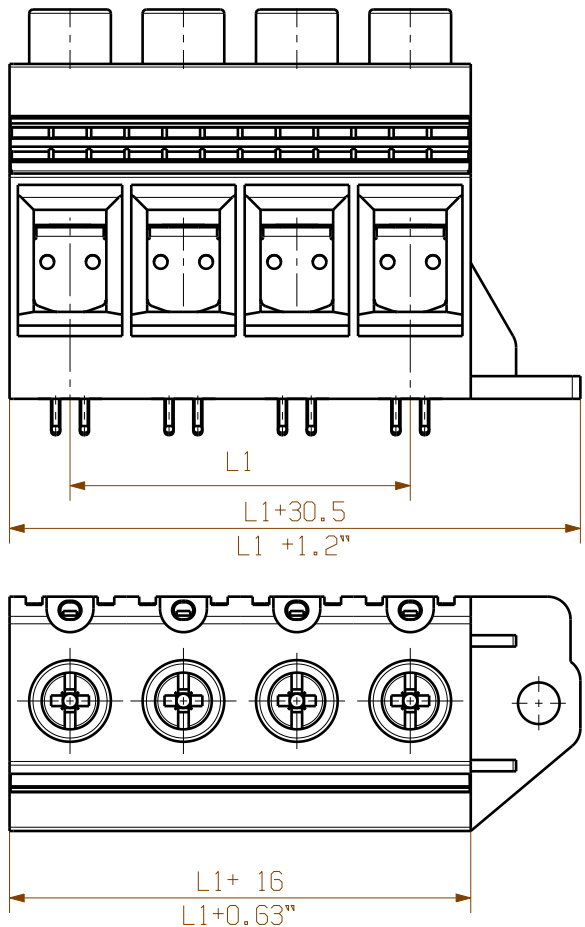
LXXX 15.00/04/90F...



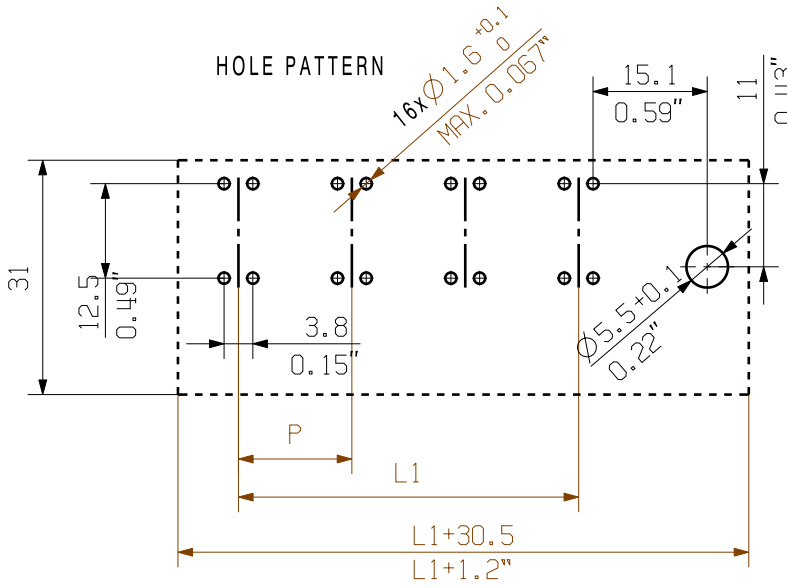
HOLE PATTERN



LXXX 15.00/04/90FR...



HOLE PATTERN







n = No. of poles  
L = 4.8<sub>0.35</sub>  
P = Pitch

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 60664-1 (VDE 0110). The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 60326-3 very fine. Weidmüller PCB components are tested to the IEC 60947-7-4 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

|   | 9      | 120      | 1.372 |
|---|--------|----------|-------|
|   | 8      | 105      | 1.313 |
|   | 7      | 90       | 1.254 |
|   | 6      | 75       | 1.195 |
|   | 5      | 60       | 1.136 |
|   | 4      | 45       | 1.77  |
|   | 3      | 30       | 1.18  |
|   | 2      | 15       | 0.59  |
| n | L1[mm] | L1[inch] |       |

GENERAL TOLERANCE:  
DIN ISO 2768-m

|                                                                                       |                                |                                            |                                                                                       |                                                                                        |                               |                               |  |                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------|-------------------------------|--|---------------------------------------------------------------------------------------|--------------|
|  | EC00000683                     | 00                                         | Prim PLM Part No.: 004587                                                             |                                                                                        |                               | Prim ERP Part No.: 1047150000 |  |                                                                                       |              |
|                                                                                       | First Issue Date<br>14.05.2018 | Max. nos.                                  |  |                                                                                        |                               | 46279                         |  |  |              |
|                                                                                       | Modification                   | Drawing no. _____<br>Sheet 01 of 01 sheets |                                                                                       |                                                                                        |                               | Issue no. _____               |  |                                                                                       |              |
|  |                                | Date                                       | Name                                                                                  | <div>LXXX 15.00/.../90...</div> <div>LEITERPLATTENKLEMME</div> <div>PCB TERMINAL</div> |                               |                               |  |                                                                                       |              |
|                                                                                       |                                | Drawn                                      | 03.12.2018                                                                            |                                                                                        |                               |                               |  |                                                                                       | Xiang, Kegin |
|                                                                                       |                                | Responsible                                |                                                                                       |                                                                                        |                               |                               |  |                                                                                       | Xiang, Kegin |
| Scale: 1/1                                                                            | Size: A2                       | Approved                                   | 04.12.2018                                                                            | Xu, Shary                                                                              | Product file: 7082 LXXX 15.00 |                               |  |                                                                                       |              |
| Drawings Assembly                                                                     |                                |                                            |                                                                                       |                                                                                        |                               |                               |  |                                                                                       |              |

Customer drawing

## 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.

We reserve the right to make technical changes.