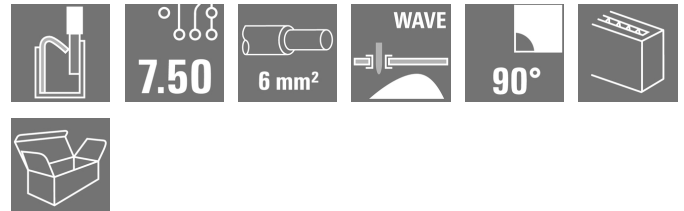


**LLF 7.50/09/90V 5.0SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

**The sturdy, direct connection for extreme current and voltage requirements in all power electronics applications such as solar inverters, frequency converters, servo-controllers and power supplies.**

**General ordering data**

|              |   |
|--------------|---|
| Version      | Printed circuit board terminals, 7.50 mm, Number of poles: 9, 90°, Solder pin length (l): 5 mm, tinned, black, PUSH IN with actuator, Clamping range, max. : 6 mm², Box |
| Order No.    | <a href="#">2472150000</a>  |
| Type         | LLF 7.50/09/90V 5.0SN BK BX   |
| GTIN (EAN)   | 4050118550078   |
| Qty.         | 30 pc(s).   |
| Product data | IEC: 1000 V / 41 A / 0.5 - 6 mm²<br>UL: 600 V / 35 A / AWG 24 - AWG 8   |
| Packaging    | Box   |

Creation date July 1, 2024 5:50:27 AM CEST

Catalogue status 14.06.2024 / We reserve the right to make technical changes.

## LLF 7.50/09/90V 5.0SN BK BX

Weidmüller Interface GmbH &amp; Co. KG

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Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Depth                    | 22.07 mm   | Depth (inches)  | 0.869 inch |
| Height                   | 36.55 mm   | Height (inches) | 1.439 inch |
| Height of lowest version | 31.55 mm   | Width           | 68.5 mm    |
| Width (inches)           | 2.697 inch | Net weight      | 32.425 g   |

## System parameters

|  |                            |  |                        |
|--|----------------------------|--|------------------------|
| Product family                             | OMNIMATE Power - series LL | Wire connection method                       | PUSH IN with actuator  |
| Mounting onto the PCB                      | THT solder connection      | Conductor outlet direction                   | 90°                    |
| Pitch in mm (P)                            | 7.5 mm                     | Pitch in inches (P)                          | 0.295 "                |
| Number of poles                            | 9                          | Pin series quantity                          | 1                      |
| Fitted by customer                         | No                         | Number of rows                               | 1                      |
| Solder pin length (l)                      | 5 mm                       | Solder pin dimensions                        | d = 1.5 mm             |
| Solder eyelet hole diameter (D)            | 2 mm                       | Solder eyelet hole diameter tolerance (D)+   | 0, 1 mm                |
| Number of solder pins per pole             | 1                          | Stripping length                             | 12 mm                  |
| L1 in mm                                   | 60 mm                      | L1 in inches                                 | 2.36 "                 |
| 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                       |  |                        |

## Material data

|                             |            |                                      |                  |
|-----------------------------|------------|--------------------------------------|------------------|
| Insulating material         | Wemid (PA) | Colour                               | black            |
| Colour chart (similar)      | RAL 9011   | Insulating material group            | I                |
| UL 94 flammability rating   | V-0        | Contact material                     | Cu-alloy         |
| Contact surface             | tinned     | Layer structure of solder connection | 4...10 µ Sn matt |
| Storage temperature, min.   | -40 °C     | Storage temperature, max.            | 70 °C            |
| Operating temperature, min. | -40 °C     | Operating temperature, max.          | 120 °C           |

## Conductors suitable for connection

|  |                      |
|--|----------------------|
| Clamping range, min.   | 0.25 mm <sup>2</sup> |
| Clamping range, max.   | 6 mm <sup>2</sup>    |
| Wire connection cross section AWG, min.                              | AWG 24               |
| Wire connection cross section AWG, max.                              | AWG 8                |
| Solid, min. H05(07) V-U  | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U  | 6 mm <sup>2</sup>    |
| Stranded, min. H07V-R  | 0.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K   | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 6 mm <sup>2</sup>    |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min. |                      |
| w. plastic collar ferrule, DIN 46228 pt 4, 6 mm <sup>2</sup> max.    |                      |
| w. wire end ferrule, DIN 46228 pt 1, min.                            | 0.25 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max.                            | 6 mm <sup>2</sup>    |

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## Technical data

|  |  |                              |                             |
|--|--|------------------------------|-----------------------------|
| Clampable conductor                    | Cross-section for conductor connection   | Type                         | fine-wired                  |
|  |  | nominal                      | 0.5 mm <sup>2</sup>         |
| wire end ferrule                       |  | Stripping length             | nominal 14 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H0.5/18 OR</a>  |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 1 mm <sup>2</sup>           |
| wire end ferrule                       |  | Stripping length             | nominal 15 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H1.0/18 GE</a>  |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 1.5 mm <sup>2</sup>         |
| wire end ferrule                       |  | Stripping length             | nominal 15 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H1.5/18D SW</a> |
|  |  | Stripping length             | nominal 12 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H1.5/12</a>     |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 0.75 mm <sup>2</sup>        |
| wire end ferrule                       |  | Stripping length             | nominal 14 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H0.75/18 W</a>  |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 2.5 mm <sup>2</sup>         |
| wire end ferrule                       |  | Stripping length             | nominal 14 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H2.5/19D BL</a> |
|  |  | Stripping length             | nominal 12 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H2.5/12</a>     |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 4 mm <sup>2</sup>           |
| wire end ferrule                       |  | Stripping length             | nominal 12 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H4.0/12</a>     |
|  |  | Stripping length             | nominal 14 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H4.0/20D GR</a> |
| Cross-section for conductor connection |  | Type                         | fine-wired                  |
|  |  | nominal                      | 6 mm <sup>2</sup>           |
| wire end ferrule                       |  | Stripping length             | nominal 14 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H6.0/20 SW</a>  |
|  |  | Stripping length             | nominal 12 mm               |
|  |  | Recommended wire-end ferrule | <a href="#">H6.0/12</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) |                              |                             |

## LLF 7.50/09/90V 5.0SN BK BX

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## Technical data


## Rated data acc. to IEC

|   |                                  |   |         |
|---|----------------------------------|---|---------|
| tested acc. to standard   | In accordance with IEC 60947-7-1 | Rated current, min. number of poles (Tu=20°C)                         | 41 A    |
| Rated current, max. number of poles (Tu=20°C)                             | 35 A                             | Rated current, min. number of poles (Tu=40°C)                         | 41 A    |
| Rated current, max. number of poles (Tu=40°C)                             | 30 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        | 1,000 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                             |   |         |

## Rated data acc. to CSA

|                                   |        |                                   |       |
|-----------------------------------|--------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 600 V  | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V  | Rated current (Use group B / CSA) | 35 A  |
| Rated current (Use group C / CSA) | 35 A   | Rated current (Use group D / CSA) | 5 A   |
| Wire cross-section, AWG, min.     | AWG 24 | Wire cross-section, AWG, max.     | AWG 8 |

## Rated data acc. to UL 1059

|                                       |   |                                       |        |
|---------------------------------------|---|---------------------------------------|--------|
| Institute (cURus)                     |  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / UL 1059) | 600 V   | Rated voltage (Use group C / UL 1059) | 600 V  |
| Rated voltage (Use group D / UL 1059) | 600 V   | Rated current (Use group B / UL 1059) | 35 A   |
| Rated current (Use group C / UL 1059) | 35 A  | Rated current (Use group D / UL 1059) | 5 A    |
| Wire cross-section, AWG, min.         | AWG 24  | Wire cross-section, AWG, max.         | AWG 8  |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 295 mm |
| VPE width | 211 mm | VPE height | 48 mm  |

## Type tests

|                              |            |  |
|------------------------------|------------|--|
| Test: Durability of markings | Test       | mark of origin, type identification, type of material, pitch, durability |
|                              | Evaluation | available  |

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|                               |                |  |                              |
|-------------------------------|----------------|--|------------------------------|
| 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 0.5 mm <sup>2</sup>    |
|                               |                | Type of conductor and conductor cross-section                                | stranded 0.5 mm <sup>2</sup> |
|                               |                | Type of conductor and conductor cross-section                                | solid 6 mm <sup>2</sup>      |
|                               |                | Type of conductor and conductor cross-section                                | stranded 6 mm <sup>2</sup>   |
|                               |                | Type of conductor and conductor cross-section                                | AWG 24/19                    |
|                               |                | Type of conductor and conductor cross-section                                | AWG 24/1                     |
|                               |                | Type of conductor and conductor cross-section                                | AWG 10/1                     |
|                               |                | Type of conductor and conductor cross-section                                | AWG 10/19                    |
|                               |                | Type of conductor and conductor cross-section                                | H07V-K10                     |
| Evaluation                    | passed         |  |                              |

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Test for damage to and accidental loosening of conductors

|                |  |
|----------------|--|
| Standard       | IEC 60999-1 section 9.4 / 11.99, IEC 60999-1 section 9.5 / 11.99 |
| Requirement    | 0.3 kg   |
| Conductor type | Type of conductor and H05V-K0.5 conductor cross-section          |
|                | Type of conductor and H05V-U0.5 conductor cross-section          |
| Evaluation     | passed   |
| Requirement    | 0.7 kg   |
| Conductor type | Type of conductor and H07V-K2.5 conductor cross-section          |
|                | Type of conductor and H07V-U2.5 conductor cross-section          |
| Evaluation     | passed   |
| Requirement    | 0.9 kg   |
| Conductor type | Type of conductor and H07V-K4 conductor cross-section            |
|                | Type of conductor and H07V-U4.0 conductor cross-section          |
| Evaluation     | passed   |
| Requirement    | 1.4 kg   |
| Conductor type | Type of conductor and H07V-K6 conductor cross-section            |
|                | Type of conductor and H07V-U6 conductor cross-section            |
| Evaluation     | passed   |

## LLF 7.50/09/90V 5.0SN BK BX

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## Technical data

|               |                |   |
|---------------|----------------|---|
| Pull-out test | Standard       | DIN EN 60999-1 section 9.5 / 12.00                      |
|               | Requirement    | ≥20 N   |
|               | Conductor type | Type of conductor and H05V-K0.5 conductor cross-section |
|               |                | Type of conductor and H05V-U0.5 conductor cross-section |
|               | Evaluation     | passed  |
|               | Requirement    | ≥50 N   |
|               | Conductor type | Type of conductor and H07V-K2.5 conductor cross-section |
|               |                | Type of conductor and H07V-U2.5 conductor cross-section |
|               | Evaluation     | passed  |
|               | Requirement    | ≥60 N   |
|               | Conductor type | Type of conductor and H07V-K4 conductor cross-section   |
|               |                | Type of conductor and H07V-U4.0 conductor cross-section |
|               | Evaluation     | passed  |
|               | Requirement    | ≥80 N   |
|               | Conductor type | Type of conductor and H07V-K6 conductor cross-section   |
|               |                | Type of conductor and H07V-U6 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 |

## Environmental Product Compliance

REACH SVHC

/

## LLF 7.50/09/90V 5.0SN BK BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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## Technical data

## 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>• The test point can only be used as potential-pickup point.</li> <li>• The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

## Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>  |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">20210909 Color Change of Actuator to LLF(S) and LUF(S) Family</a><br><a href="#">20210909 LLF(S) und LUF(S) Familie - Farbänderung des Betätigungselementes</a><br><a href="#">20220603 Change OMNIMATE® Power LLF 7.5090</a><br><a href="#">20220603 Technische Änderung OMNIMATE® Power LLF 7.5090</a> |
| User Documentation                          | <a href="#">QR-Code product handling video</a><br><a href="#">Assembly instruction_Montageanleitung_LL LUF_EN_DE</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |



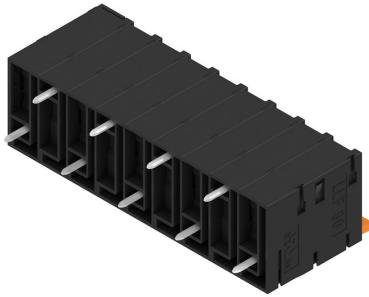
## LLF 7.50/09/90V 5.0SN BK BX

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

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# Drawings

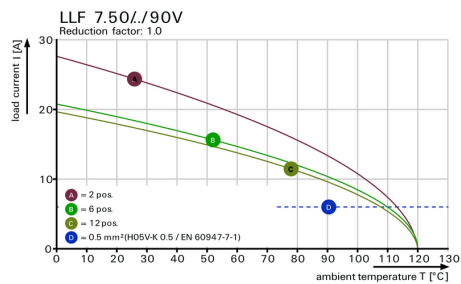
## Product image



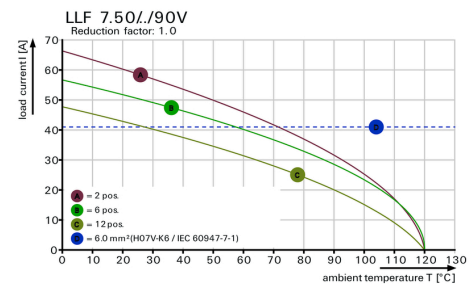
## Dimensional drawing



## Derating curve



## Derating curve



## Product benefits



Power up to UL 600 V  
Offset solder pins

## Product benefits



Tool-free wiring  
Top contact security

**LLF 7.50/09/90V 5.0SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

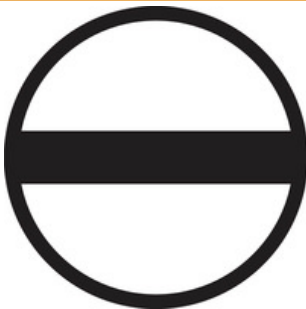
Germany

[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Tools**

- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- Long service life
- Optimised ergonomic design

**General ordering data**

|            |                            |                                   |
|------------|----------------------------|-----------------------------------|
| Type       | STRIPAX                    | Version                           |
| Order No.  | <a href="#">9005000000</a> | Tools, Stripping and cutting tool |
| GTIN (EAN) | 4008190072506              |                                   |
| Qty.       | 1 pc(s).                   |                                   |

**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 0.5X3.0X100           | Version                  |
| Order No.  | <a href="#">9008380000</a> | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056347              |                          |
| Qty.       | 1 pc(s).                   |                          |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Slotted screwdriver**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

**General ordering data**

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | SDS 0.5X3.0X80             | Version                  |
| Order No.  | <a href="#">9008320000</a> | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056262              |                          |
| Qty.       | 1 pc(s).                   |                          |

**Additional accessories****No task is too small when creating the perfect solution.**

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

- Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

**General ordering data**

|            |                            |  |              |           |
|------------|----------------------------|--|--------------|-----------|
| Type       | PS 2.0 MC                  | Version  | Product data | Packaging |
| Order No.  | <a href="#">0310000000</a> | PCB plug-in connector, Accessories, Test plug, red, Number of poles: 1 |              | Box       |
| GTIN (EAN) | 4008190000059              |  |              |           |
| Qty.       | 20 pc(s).                  |  |              |           |

### LLF 7.50/09/90V 5.0SN BK BX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

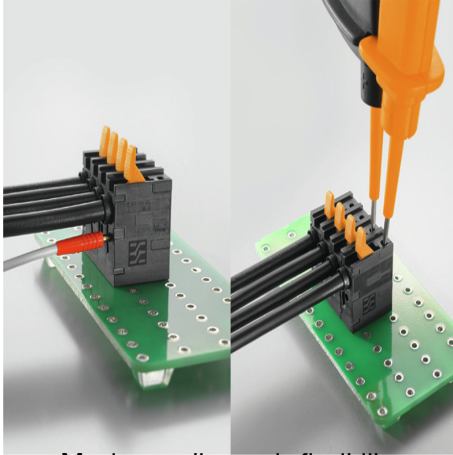
D-32758 Detmold

Germany

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## Drawings

### Product benefits



Maximum diagnosis flexibility  
Easily accessible test point

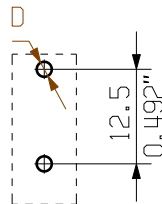
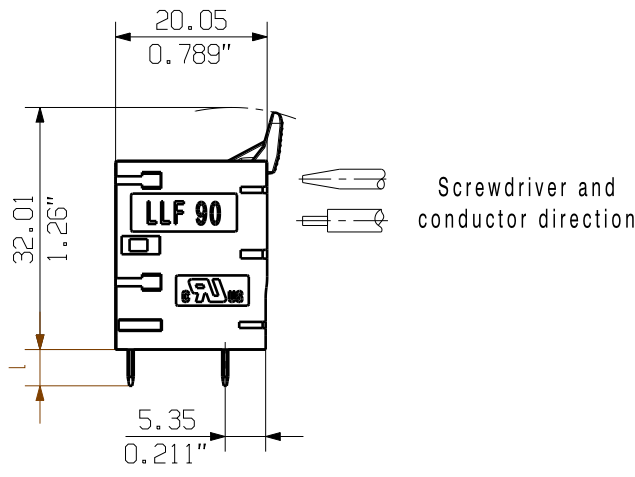
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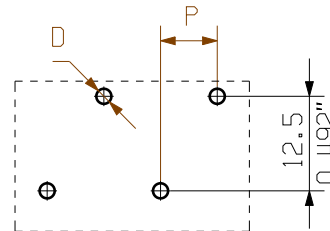
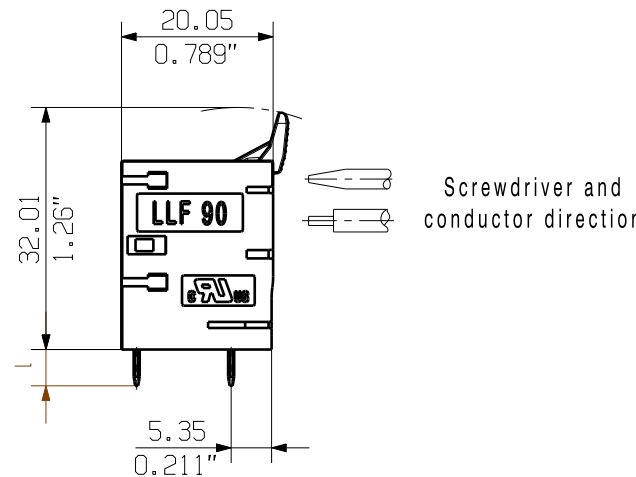
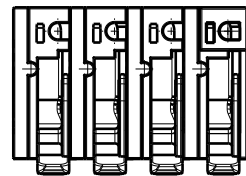
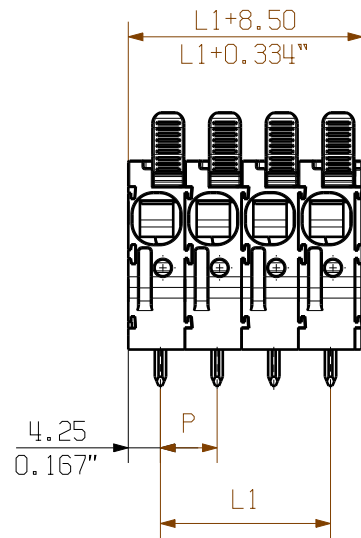
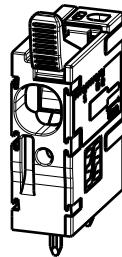
Dimensions without tolerances are no check dimensions

The English version is binding

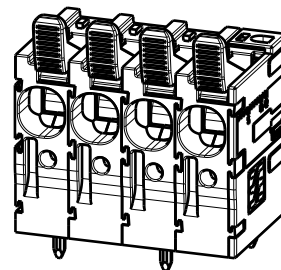
General customer drawing, topical version only if required



Hole pattern



Hole pattern



P = 7.50  
0.295" (Pitch)  
D = Ø2 +0.1  
0.079"  
d = 1.5x0.8  
0.059"x0.031"  
l = 5.0 +0.2 -0.6  
0.197"

|         |         |           |
|---------|---------|-----------|
| 12      | 82.50   | 3.248     |
| 11      | 75.00   | 2.953     |
| 10      | 67.50   | 2.657     |
| 9       | 60.00   | 2.362     |
| 8       | 52.50   | 2.067     |
| 7       | 45.00   | 1.772     |
| 6       | 37.50   | 1.476     |
| 5       | 30.00   | 1.181     |
| 4       | 22.50   | 0.886     |
| 3       | 15.00   | 0.591     |
| 2       | 7.50    | 0.295     |
| n Poles | L1 [mm] | L1 [inch] |

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 664 / VDE 0110.  
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 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.

General tolerance:  
DIN ISO 2768-mK

96880/3  
02.08.17  
DAMERIUS\_A

00

Modification

Date

Name

Drawn

04.07.2016

KRECHT\_M

Responsible

WRIGHT\_ST

Checked

02.08.2017

HELIS\_MA

Supersedes: .

Approved

NOLTE\_S

Cat.no.: .

**3 61339**

Drawing no. **06**  
Sheet 01 of 01 sheets

**LLF 7.50/.../90...**  
LEITERPLATTENKLEMME  
PCB TERMINAL

Product file: LLF 7.50

7416

## Recommended wave soldering profiles

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

### 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  $260 \text{ °C}$ . In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.