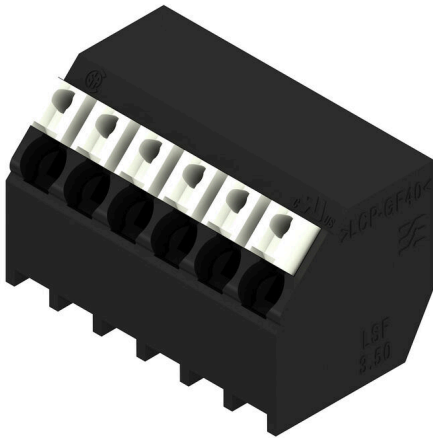


## LSF-SMT 3.50/06/135 1.5SN BK RL

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

www.weidmueller.com

### Product image



PCB terminal for fully automatic assembly in reflow soldering (SMT), with PUSH IN conductor connection system. Conductor inserted and slider operated in same direction (TOP). Packed in box or as tape on reel. Pin lengths optimised at 1.5 mm or 3.5 mm.

### General ordering data

|              |  |
|--------------|--|
| Version      | Printed circuit board terminals, 3.50 mm, Number of poles: 6, 135°, Solder pin length (l): 1.5 mm, black, PUSH IN with actuator, Clamping range, max.: 1.5 mm², Tape |
| Order No.    | <a href="#">1887640000</a>   |
| Type         | LSF-SMT 3.50/06/135 1.5SN BK RL  |
| GTIN (EAN)   | 4032248493357  |
| Qty.         | 190 items  |
| Product data | IEC: 320 V / 17.5 A / 0.2 - 1.5 mm²<br>UL: 300 V / 12 A / AWG 28 - AWG 14  |
| Packaging    | Tape   |

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## Technical data

## Approvals

Approvals



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

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 12.7 mm     | Depth (inches)  | 0.5 inch    |
| Height                   | 14.4 mm     | Height (inches) | 0.5669 inch |
| Height of lowest version | 12.9 mm     | Width           | 21.7 mm     |
| Width (inches)           | 0.8543 inch | Net weight      | 5.83 g      |

## Temperatures

|                                  |        |
|----------------------------------|--------|
| Continuous operating temp., max. | 120 °C |
|----------------------------------|--------|

## Environmental Product Compliance

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

## System parameters

|  |                              |  |                        |
|--|------------------------------|--|------------------------|
| Product family                             | OMNIMATE Signal - series LSF | Wire connection method                       | PUSH IN with actuator  |
| Mounting onto the PCB                      | THT/THR solder connection    | Conductor outlet direction                   | 135°                   |
| Pitch in mm (P)                            | 3.50 mm                      | Pitch in inches (P)                          | 0.138 "                |
| Number of poles                            | 6                            | Pin series quantity                          | 1                      |
| Fitted by customer                         | No                           | Number of rows                               | 1                      |
| Solder pin length (l)                      | 1.5 mm                       | Solder pin length tolerance                  | +0.1 / -0.3 mm         |
| Solder pin dimensions                      | 0.35 x 0.8 mm                | Solder pin dimensions = d tolerance          | 0 / -0.1 mm            |
| Solder eyelet hole diameter (D)            | 1.1 mm                       | Solder eyelet hole diameter tolerance (D)    | + 0, 1 mm              |
| Number of solder pins per pole             | 2                            | Stripping length                             | 8 mm                   |
| L1 in mm                                   | 17.50 mm                     | L1 in inches                                 | 0.689 "                |
| 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                            | 1.60 mΩ                |

## Material data

|                                       |              |                                       |                  |
|---------------------------------------|--------------|---------------------------------------|------------------|
| Insulating material                   | LCP GF       | Colour                                | black            |
| Colour of operational elements        | white        | Colour chart (similar)                | RAL 9011         |
| Insulating material group             | IIIa         | Comparative Tracking Index (CTI)      | ≥ 175            |
| Moisture Level (MSL)                  | 1            | UL 94 flammability rating             | V-0              |
| Contact material                      | Copper alloy | 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. | -30 °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.                            | 1.5 mm <sup>2</sup>  |
| Wire connection cross section AWG, min.         | AWG 28               |
| Wire connection cross section AWG, max.         | AWG 14               |
| Solid, min. H05(07) V-U                         | 0.2 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                         | 1.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                      | 0.2 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K                      | 1.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 0.75 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.25 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max.       | 1.5 mm <sup>2</sup>  |

|  |  |                              |                               |
|--|--|------------------------------|-------------------------------|
| Clampable conductor                    | Cross-section for conductor connection | Type                         | fine-wired                    |
|  |  | nominal                      | 0.25 mm <sup>2</sup>          |
| wire end ferrule                       | wire end ferrule                       | Stripping length             | nominal 10 mm                 |
|  |  | Recommended wire-end ferrule | <a href="#">H0,25/12 HBL</a>  |
|  |  | Type                         | fine-wired                    |
| Cross-section for conductor connection | wire end ferrule                       | nominal                      | 0.34 mm <sup>2</sup>          |
|  |  | Stripping length             | nominal 10 mm                 |
| wire end ferrule                       | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0,34/12 TK</a>   |
|  |  | Type                         | fine-wired                    |
|  |  | nominal                      | 0.5 mm <sup>2</sup>           |
| Cross-section for conductor connection | wire end ferrule                       | Stripping length             | nominal 10 mm                 |
|  |  | Recommended wire-end ferrule | <a href="#">H0,5/14 OR</a>    |
| Cross-section for conductor connection | wire end ferrule                       | Type                         | fine-wired                    |
|  |  | nominal                      | 0.75 mm <sup>2</sup>          |
| wire end ferrule                       | wire end ferrule                       | Stripping length             | nominal 10 mm                 |
|  |  | Recommended wire-end ferrule | <a href="#">H0,75/14T HBL</a> |
|  |  | Type                         | fine-wired                    |

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)                         | 17.5 A           |
| Rated current, max. number of poles (Tu=20°C)                             | 16 A                   | Rated current, min. number of poles (Tu=40°C)                         | 17.5 A           |
| Rated current, max. number of poles (Tu=40°C)                             | 14 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 320 V            |
| Rated voltage for surge voltage class / pollution degree III/2            | 160 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 160 V            |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 2.5 kV                 | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 2.5 kV           |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 2.5 kV                 | Short-time withstand current resistance                               | 3 x 1s with 80 A |

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**Technical data**

**Rated data acc. to CSA**

|                                   |  |                                   |                |
|-----------------------------------|--|-----------------------------------|----------------|
| Institute (CSA)                   | CSA  | Certificate No. (CSA)             | 200039-1664286 |
| Rated voltage (Use group B / CSA) | 300 V  | Rated voltage (Use group D / CSA) | 300 V          |
| Rated current (Use group B / CSA) | 10 A   | Rated current (Use group D / CSA) | 10 A           |
| Wire cross-section, AWG, min.     | AWG 28   | Wire cross-section, AWG, max.     | AWG 14         |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |                                   |                |

**Rated data acc. to UL 1059**

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus)                     | CURUS  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 12 A   | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 28   | Wire cross-section, AWG, max.         | AWG 14 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |        |

**Packing**

|                             |                          |                                      |           |
|-----------------------------|--------------------------|--------------------------------------|-----------|
| ESD Level packaging         | static dissipative       | Packaging                            | Tape      |
| VPE length                  | 350.00 mm                | VPE width                            | 350.00 mm |
| VPE height                  | 62.00 mm                 | Tape depth (T2)                      | 17.50 mm  |
| Tape width (W)              | 44 mm                    | Tape pocket depth (K0)               | 17.00 mm  |
| Tape pocket height (AO)     | 12.80 mm                 | Tape pocket width (B0)               | 22.00 mm  |
| Tape pocket separation (P1) | 20.00 mm                 | Tape hole separation (E)             | 1.75 mm   |
| Tape pocket separation (F)  | 20.20 mm                 | Tape reel diameter $\varnothing$ (A) | 330 mm    |
| Surface resistance          | Rs = 109 - 1012 $\Omega$ |                                      |           |

**Type tests**

|                               |                |  |                               |  |
|-------------------------------|----------------|--|-------------------------------|--|
| Test: Durability of markings  | Standard       | DIN EN 60512-1-1 / 01.03   |                               |  |
|                               | Test           | mark of origin, type identification, pitch, durability                             |                               |  |
|                               | Evaluation     | available  |                               |  |
|                               | Test           | approval marking UL  |                               |  |
| Test: Clampable cross section | Evaluation     | on packaging label   |                               |  |
|                               | 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 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                                      | solid 1.5 mm <sup>2</sup>     |  |
|                               |                | Type of conductor and conductor cross-section                                      | stranded 1.5 mm <sup>2</sup>  |  |
|                               |                | Type of conductor and conductor cross-section                                      | AWG 24/1                      |  |
|                               |                | Type of conductor and conductor cross-section                                      | AWG 24/19                     |  |

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**Technical data**

|   |   |   |                               |
|---|---|---|-------------------------------|
| Test for damage to and accidental loosening of conductors |   | Type of conductor and conductor cross-section | AWG 16/1                      |
|   |   | Type of conductor and conductor cross-section | AWG 16/19                     |
|   | Evaluation                                    | passed  |                               |
|   | Standard                                      | DIN EN 60999-1 section 9.4 / 12.00            |                               |
|   | Requirement                                   | 0.2 kg  |                               |
|   | Conductor type                                | Type of conductor and conductor cross-section | AWG 24/1                      |
|   |   | Type of conductor and conductor cross-section | AWG 24/19                     |
|   | Evaluation                                    | passed  |                               |
|   | Requirement                                   | 0.3 kg  |                               |
|   | Conductor type                                | Type of conductor and conductor cross-section | stranded 0.25 mm <sup>2</sup> |
| Type of conductor and conductor cross-section             |   | solid 0.5 mm <sup>2</sup>                     |                               |
| Evaluation  | passed  |   |                               |
| Requirement   | 0.4 kg  |   |                               |
| Conductor type  | Type of conductor and conductor cross-section | solid 1.5 mm <sup>2</sup>                     |                               |
|   | Type of conductor and conductor cross-section | stranded 1.5 mm <sup>2</sup>                  |                               |
|   | Type of conductor and conductor cross-section | AWG 16/1                                      |                               |
|   | Type of conductor and conductor cross-section | AWG 16/19                                     |                               |
| Evaluation  | passed  |   |                               |
| Standard  | DIN EN 60999-1 section 9.5 / 12.00            |   |                               |
| Requirement   | ≥10 N   |   |                               |
| Conductor type  | Type of conductor and conductor cross-section | AWG 24/1                                      |                               |
|   | Type of conductor and conductor cross-section | AWG 24/19                                     |                               |
| Evaluation  | passed  |   |                               |
| Requirement   | ≥20 N   |   |                               |
| Conductor type  | Type of conductor and conductor cross-section | stranded 0.25 mm <sup>2</sup>                 |                               |
|   | Type of conductor and conductor cross-section | H05V-U0.5                                     |                               |
| Evaluation  | passed  |   |                               |
| Requirement   | ≥40 N   |   |                               |
| Conductor type  | Type of conductor and conductor cross-section | H07V-U1.5                                     |                               |
|   | Type of conductor and conductor cross-section | H07V-K1.5                                     |                               |

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**Technical data**

|            |   |           |
|------------|---|-----------|
|            | Type of conductor and conductor cross-section | AWG 16/1  |
|            | Type of conductor and conductor cross-section | AWG 16/19 |
| Evaluation | passed  |           |

**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-6 10 "Class 2". Further claims on the products can be evaluated on request.  |
| Notes          | <ul style="list-style-type: none"> <li>• Additional push button colours on request</li> <li>• Operating force of slider max. 40 N</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</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>• Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.</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 |             |             |

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Drawings

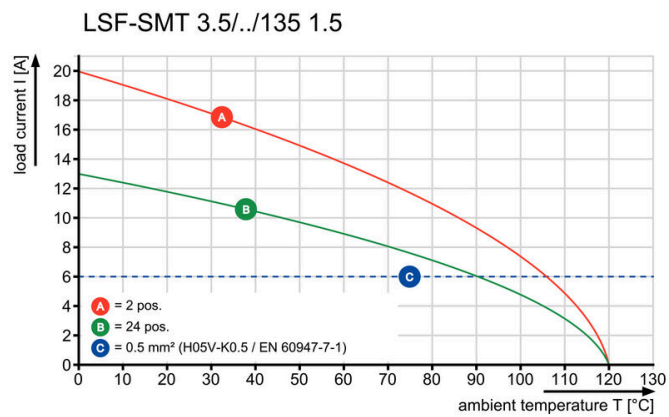
Product image



Dimensional drawing



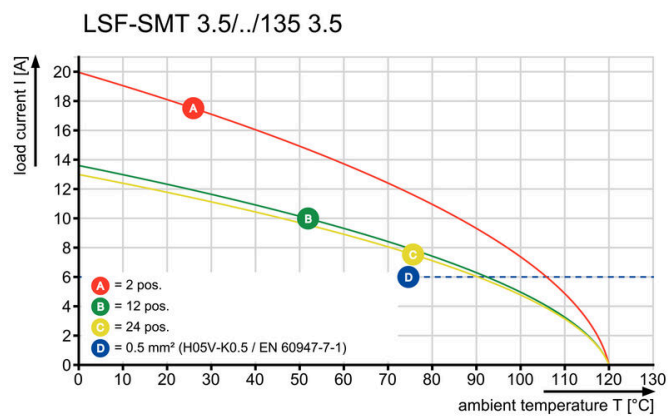
Graph



Graph



Graph



Graph



**Dimensional drawing**



**Dimensional drawing**



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**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 0.4X2.5X75            | Version                  |  |
| Order No.  | <a href="#">9008370000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4032248056330              |                          |  |
| Qty.       | 1 ST                       |                          |  |
| Type       | SDS 0.4X2.5X75             | Version                  |  |
| Order No.  | <a href="#">9009030000</a> | Screwdriver, Screwdriver |  |
| GTIN (EAN) | 4032248266944              |                          |  |
| Qty.       | 1 ST                       |                          |  |