



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 1825700000   |
| Part designation | LSF-SMT3.5/8/180 3.5 SW  |
| Version          | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Tube |
| EAN              | 4032248328291  |
| Qty.             | 19 pc(s).  |

#### System parameters

|                                 |                          |
|---------------------------------|--------------------------|
| Product family                  | System LS                |
| Conductor connection system     | Push In                  |
| Fitted to PCB                   | Reflow solder connection |
| Outgoing direction of conductor | 180°                     |
| Pitch                           | 3.5 mm                   |
| Pitch in inch                   | 0.138 inch               |
| No. of poles                    | 8                        |
| Fitted by customer              | no                       |
| No. of rows                     | 1                        |
| Solder pin length               | 3.5 mm                   |
| Dia. of fitting hole            | 1.1 mm                   |
| Fitting hole tolerance          | + 0.1 mm                 |
| No. of solder pins per pole     | 2                        |
| Stripping length                | 8 mm                     |

#### System parameters

|   |                        |
|---|------------------------|
| L1 in mm                                  | 24.5 mm                |
| L1 in inch                                | 0.965 inch             |
| Electric shock protection to DIN VDE 0470 | IP 20                  |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

#### Material data

|                           |                     |
|---------------------------|---------------------|
| Insulating material       | LCP GF              |
| Colour                    | black               |
| colour chart              | Similar to RAL 9011 |
| Insulating material group | IIIa                |
| Flammability class UL 94  | V-0                 |
| CTI                       | >= 175              |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |
| Storage temperature, min. | -25 °C              |
| Storage temperature, max. | 55 °C               |

#### Connectable conductors

|   |                      |
|---|----------------------|
| Clamping range, min.                              | 0.13 mm <sup>2</sup> |
| Clamping range, max.                              | 1.5 mm <sup>2</sup>  |
| AWG, min.   | 24                   |
| AWG, max.   | 16                   |
| O.D. of conductor insulation, max.                | 2.9 mm               |
| 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>  |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.25 mm <sup>2</sup> |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 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> |

#### DIN IEC rating data

|  |                  |
|--|------------------|
| Rated current, min. No. pins (Tu=20°C)   | 17.5 A           |
| Rated current, max. No. pins (Tu=20°C)   | 16 A             |
| Rated current, min. No. pins (Tu=40°C)   | 17.5 A           |
| Rated current, max. No. pins (Tu=40°C)   | 14 A             |
| Rated voltage for overvoltage class/pollution severity II/2                    | 320 V            |
| Rated voltage for overvoltage class/pollution severity III/2                   | 160 V            |
| Rated voltage for overvoltage class/pollution severity III/3                   | 160 V            |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 2.5 kV           |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV           |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV           |
| Short-time withstand current resistance  | 3 x 1s with 80 A |

#### CSA rating data

|                                    |       |
|------------------------------------|-------|
| Rated voltage (Use group D)        | 300 V |
| Rated current (Use group D)        | 10 A  |
| AWG conductor (field wiring), min. | 24    |
| AWG conductor (field wiring), max. | 16    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 24    |
| AWG conductor, max.         | 16    |

#### Approvals

Approvals institutes



#### Classifications

|            |    |
|------------|----|
| eClass 4.1 | NK |
| eClass 5.0 | NK |
| eClass 5.1 | NK |

#### Similar products

| Order No.  | Part designation        | Version  |
|------------|-------------------------|--|
| 1825640000 | LSF-SMT3.5/2/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Tube |
| 1874510000 | LSF-SMT3.5/2/180 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Tape |
| 1870640000 | LSF-SMT 3.5/2/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Tube |
| 1874490000 | LSF-SMT3.5/2/180 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 2, 180°, Tape |
| 1825650000 | LSF-SMT3.5/3/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Tube |
| 1874520000 | LSF-SMT3.5/3/180 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Tape |
| 1874300000 | LSF-SMT3.5/3/180 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Tape |
| 1870650000 | LSF-SMT 3.5/3/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 3, 180°, Tube |
| 1825660000 | LSF-SMT3.5/4/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Tube |

|            |                          |   |
|------------|--------------------------|---|
| 1874540000 | LSF-SMT3.5/4/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Tape  |
| 1870660000 | LSF-SMT 3.5/4/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Tube  |
| 1874280000 | LSF-SMT3.5/4/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 4, 180°, Tape  |
| 1825670000 | LSF-SMT3.5/5/180 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Tube  |
| 1874560000 | LSF-SMT3.5/5/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Tape  |
| 1870670000 | LSF-SMT 3.5/5/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Tube  |
| 1874310000 | LSF-SMT3.5/5/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 5, 180°, Tape  |
| 1825680000 | LSF-SMT3.5/6/180 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Tube  |
| 1874590000 | LSF-SMT3.5/6/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Tape  |
| 1870680000 | LSF-SMT 3.5/6/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Tube  |
| 1874320000 | LSF-SMT3.5/6/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 6, 180°, Tape  |
| 1825690000 | LSF-SMT3.5/7/180 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Tube  |
| 1874600000 | LSF-SMT3.5/7/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Tape  |
| 1870690000 | LSF-SMT 3.5/7/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Tube  |
| 1874340000 | LSF-SMT3.5/7/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 7, 180°, Tape  |
| 1874610000 | LSF-SMT3.5/8/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Tape  |
| 1870700000 | LSF-SMT 3.5/8/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Tube  |
| 1874350000 | LSF-SMT3.5/8/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 8, 180°, Tape  |
| 1825710000 | LSF-SMT3.5/9/180 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Tube  |
| 1874620000 | LSF-SMT3.5/9/180 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Tape  |
| 1870710000 | LSF-SMT 3.5/9/180 1.5    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Tube  |
| 1874370000 | LSF-SMT3.5/9/180 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 9, 180°, Tape  |
| 1825720000 | LSF-SMT3.5/10/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Tube |
| 1874640000 | LSF-SMT3.5/10/180 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Tape |
| 1870720000 | LSF-SMT 3.5/10/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Tube |
| 1874380000 | LSF-SMT3.5/10/180 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 10, 180°, Tape |

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| 1825730000 | LSF-SMT3.5/11/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Tube |
| 1874660000 | LSF-SMT3.5/11/180 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Tape |
| 1870730000 | LSF-SMT 3.5/11/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Tube |
| 1874400000 | LSF-SMT3.5/11/180 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 11, 180°, Tape |
| 1825740000 | LSF-SMT3.5/12/180 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Tube |
| 1874680000 | LSF-SMT3.5/12/180 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Tape |
| 1870740000 | LSF-SMT 3.5/12/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Tube |
| 1874420000 | LSF-SMT3.5/12/180 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 12, 180°, Tape |
| 1870350000 | LSF-SMT 3.5/13/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 180°, Tube |
| 1870750000 | LSF-SMT 3.5/13/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 13, 180°, Tube |
| 1870360000 | LSF-SMT 3.5/14/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Tube |
| 1870760000 | LSF-SMT 3.5/14/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 14, 180°, Tube |
| 1870370000 | LSF-SMT 3.5/15/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Tube |
| 1870770000 | LSF-SMT 3.5/15/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 15, 180°, Tube |
| 1870510000 | LSF-SMT 3.5/16/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Tube |
| 1870790000 | LSF-SMT 3.5/16/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 16, 180°, Tube |
| 1870520000 | LSF-SMT 3.5/17/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Tube |
| 1870800000 | LSF-SMT 3.5/17/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 17, 180°, Tube |
| 1870540000 | LSF-SMT 3.5/18/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Tube |
| 1870830000 | LSF-SMT 3.5/18/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 18, 180°, Tube |
| 1870560000 | LSF-SMT 3.5/19/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Tube |
| 1870840000 | LSF-SMT 3.5/19/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 19, 180°, Tube |
| 1870570000 | LSF-SMT 3.5/20/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Tube |
| 1870850000 | LSF-SMT 3.5/20/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 20, 180°, Tube |
| 1870600000 | LSF-SMT 3.5/21/180 3.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Tube |
| 1870860000 | LSF-SMT 3.5/21/180 1.5   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 21, 180°, Tube |

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| 1870620000 | LSF-SMT 3.5/23/180 3.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 180°, Tube |
| 1870880000 | LSF-SMT 3.5/23/180 1.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 23, 180°, Tube |
| 1870610000 | LSF-SMT 3.5/22/180 3.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Tube |
| 1870870000 | LSF-SMT 3.5/22/180 1.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 22, 180°, Tube |
| 1870630000 | LSF-SMT 3.5/24/180 3.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Tube |
| 1870890000 | LSF-SMT 3.5/24/180 1.5 | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.50 mm, No. of poles: 24, 180°, Tube |