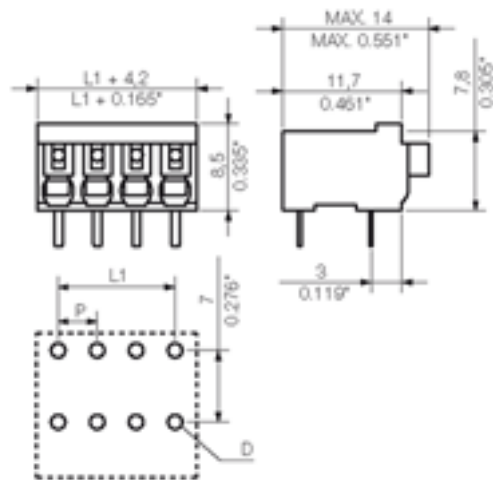




#### General ordering data

|                  |                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Order No.        | 1824630000                                                                                                                                    |
| Part designation | LSF-SMT3.81/3/90 3.5 SW                                                                                                                       |
| Version          | PCB terminal, Push In, Reflow solder connection,<br>Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm,<br>No. of poles: 3, 90°, Tube |
| EAN              | 4032248327218                                                                                                                                 |
| Qty.             | 46 pc(s).                                                                                                                                     |

#### System parameters

|                                 |                          |
|---------------------------------|--------------------------|
| Product family                  | System LS                |
| Conductor connection system     | Push In                  |
| Fitted to PCB                   | Reflow solder connection |
| Outgoing direction of conductor | 90°                      |
| Pitch                           | 3.81 mm                  |
| Pitch in inch                   | 0.15 inch                |
| No. of poles                    | 3                        |
| 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                                  | 7.62 mm                |
| L1 in inch                                | 0.3 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                                                                                                                                 |
|------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1824620000 | LSF-SMT3.81/2/90 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 90°, Tube |
| 1875920000 | LSF-SMT3.81/2/90 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 90°, Tape |
| 1869360000 | LSF-SMT 3.81/2/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 90°, Tube |
| 1875170000 | LSF-SMT3.81/2/90 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 2, 90°, Tape |
| 1875930000 | LSF-SMT3.81/3/90 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 90°, Tape |
| 1869370000 | LSF-SMT 3.81/3/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 90°, Tube |
| 1875230000 | LSF-SMT3.81/3/90 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 3, 90°, Tape |
| 1824640000 | LSF-SMT3.81/4/90 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 90°, Tube |
| 1875940000 | LSF-SMT3.81/4/90 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 90°, Tape |

|            |                          |                                                                                                                                          |
|------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1869380000 | LSF-SMT 3.81/4/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 90°, Tube  |
| 1875240000 | LSF-SMT3.81/4/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 4, 90°, Tape  |
| 1824650000 | LSF-SMT3.81/5/90 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 90°, Tube  |
| 1875950000 | LSF-SMT3.81/5/90 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 90°, Tape  |
| 1869390000 | LSF-SMT 3.81/5/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 90°, Tube  |
| 1875250000 | LSF-SMT3.81/5/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 5, 90°, Tape  |
| 1824660000 | LSF-SMT3.81/6/90 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 90°, Tube  |
| 1875960000 | LSF-SMT3.81/6/90 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 90°, Tape  |
| 1869400000 | LSF-SMT 3.81/6/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 90°, Tube  |
| 1875260000 | LSF-SMT3.81/6/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 6, 90°, Tape  |
| 1824690000 | LSF-SMT3.81/7/90 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 90°, Tube  |
| 1875970000 | LSF-SMT3.81/7/90 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 90°, Tape  |
| 1869410000 | LSF-SMT 3.81/7/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 90°, Tube  |
| 1875270000 | LSF-SMT3.81/7/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 7, 90°, Tape  |
| 1824700000 | LSF-SMT3.81/8/90 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 90°, Tube  |
| 1875980000 | LSF-SMT3.81/8/90 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 90°, Tape  |
| 1869420000 | LSF-SMT 3.81/8/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 90°, Tube  |
| 1875280000 | LSF-SMT3.81/8/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 8, 90°, Tape  |
| 1824710000 | LSF-SMT3.81/9/90 3.5 SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 90°, Tube  |
| 1875990000 | LSF-SMT3.81/9/90 3.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 90°, Tape  |
| 1869430000 | LSF-SMT 3.81/9/90 1.5SW  | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 90°, Tube  |
| 1875290000 | LSF-SMT3.81/9/90 1.5R    | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 9, 90°, Tape  |
| 1824720000 | LSF-SMT3.81/10/90 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 90°, Tube |
| 1876000000 | LSF-SMT3.81/10/90 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 90°, Tape |
| 1869440000 | LSF-SMT 3.81/10/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 90°, Tube |
| 1875300000 | LSF-SMT3.81/10/90 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 10, 90°, Tape |

|            |                          |                                                                                                                                          |
|------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1824730000 | LSF-SMT3.81/11/90 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 90°, Tube |
| 1876010000 | LSF-SMT3.81/11/90 3.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 90°, Tape |
| 1869450000 | LSF-SMT 3.81/11/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 90°, Tube |
| 1875310000 | LSF-SMT3.81/11/90 1.5R   | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 11, 90°, Tape |
| 1825300000 | LSF-SMT3.81/12/90 3.5 SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 90°, Tube |
| 1869460000 | LSF-SMT 3.81/12/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 12, 90°, Tube |
| 1871200000 | LSF-SMT 3.81/13/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 90°, Tube |
| 1869470000 | LSF-SMT 3.81/13/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 13, 90°, Tube |
| 1871210000 | LSF-SMT 3.81/14/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 90°, Tube |
| 1869480000 | LSF-SMT 3.81/14/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 14, 90°, Tube |
| 1871220000 | LSF-SMT 3.81/15/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 90°, Tube |
| 1869500000 | LSF-SMT 3.81/15/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 15, 90°, Tube |
| 1871230000 | LSF-SMT 3.81/16/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 90°, Tube |
| 1869510000 | LSF-SMT 3.81/16/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 16, 90°, Tube |
| 1871240000 | LSF-SMT 3.81/17/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 90°, Tube |
| 1869520000 | LSF-SMT 3.81/17/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 17, 90°, Tube |
| 1871250000 | LSF-SMT 3.81/18/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 90°, Tube |
| 1869530000 | LSF-SMT 3.81/18/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 18, 90°, Tube |
| 1871260000 | LSF-SMT 3.81/19/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 90°, Tube |
| 1869540000 | LSF-SMT 3.81/19/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 19, 90°, Tube |
| 1871270000 | LSF-SMT 3.81/20/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 90°, Tube |
| 1869550000 | LSF-SMT 3.81/20/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 20, 90°, Tube |
| 1871280000 | LSF-SMT 3.81/21/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 21, 90°, Tube |
| 1869560000 | LSF-SMT 3.81/21/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 21, 90°, Tube |
| 1871290000 | LSF-SMT 3.81/22/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 22, 90°, Tube |
| 1869570000 | LSF-SMT 3.81/22/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 22, 90°, Tube |

|            |                          |                                                                                                                                          |
|------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1871300000 | LSF-SMT 3.81/23/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 23, 90°, Tube |
| 1869580000 | LSF-SMT 3.81/23/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 23, 90°, Tube |
| 1871310000 | LSF-SMT 3.81/24/90 3.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 24, 90°, Tube |
| 1869590000 | LSF-SMT 3.81/24/90 1.5SW | PCB terminal, Push In, Reflow solder connection, Clamping range, max.: 1.5 mm <sup>2</sup> , Pitch: 3.81 mm, No. of poles: 24, 90°, Tube |