



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 0593860000   |
| Part designation | TOP1.5GS6/90 5 2STI OR   |
| Version          | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 6, 90°, Box |
| EAN              | 4008190875152  |
| Qty.             | 50 pc(s).  |

#### System parameters

|   |                        |
|---|------------------------|
| Product family                            | System TOP1.5GS        |
| Conductor connection system               | TOP connection         |
| Fitted to PCB                             | Soldered connection    |
| Outgoing direction of conductor           | 90°                    |
| Pitch                                     | 5.08 mm                |
| Pitch in inch                             | 0.2 inch               |
| No. of poles                              | 6                      |
| Fitted by customer                        | no                     |
| No. of rows                               | 1                      |
| Solder pin length                         | 3.5 mm                 |
| Dia. of fitting hole                      | 1.3 mm                 |
| Fitting hole tolerance                    | + 0.1 mm               |
| No. of solder pins per pole               | 2                      |
| Screwdriver blade                         | 0.6 x 3.5              |
| Screwdriver blade standard                | DIN 5264               |
| Tightening torque, min.                   | 0.4 Nm                 |
| Tightening torque, max.                   | 0.5 Nm                 |
| Clamping screw                            | M 2.5                  |
| Stripping length                          | 10 mm                  |
| L1 in mm                                  | 25.4 mm                |
| L1 in inch                                | 1 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       | PA                  |
| Colour                    | orange              |
| colour chart              | Similar to RAL 2000 |
| Insulating material group | I                   |
| Flammability class UL 94  | V-2                 |
| CTI                       | >= 600              |
| Contact base material     | CuZn                |
| 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.                              | 2.5 mm <sup>2</sup>  |
| AWG, min.   | 26                   |
| AWG, max.   | 14                   |
| Solid, min. H05(07) V-U                           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U                           | 2.5 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K                        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K                        | 2.5 mm <sup>2</sup>  |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.5 mm <sup>2</sup>  |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min.   | 0.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, max.   | 2.5 mm <sup>2</sup>  |
| Gauge to EN 60999 a x b; ø                        | 2.4 mm x 1.5 mm;     |

#### DIN IEC rating data

|  |                   |
|--|-------------------|
| Rated current, min. No. pins (Tu=20°C)   | 24 A              |
| Rated current, max. No. pins (Tu=20°C)   | 19 A              |
| Rated current, min. No. pins (Tu=40°C)   | 21                |
| Rated current, max. No. pins (Tu=40°C)   | 16 A              |
| Rated voltage for overvoltage class/pollution severity II/2                    | 630 V             |
| Rated voltage for overvoltage class/pollution severity III/2                   | 320 V             |
| Rated voltage for overvoltage class/pollution severity III/3                   | 250 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 120 A |

#### CSA rating data

|                                    |       |
|------------------------------------|-------|
| Rated voltage (Use group D)        | 300 V |
| Rated current (Use group D)        | 10 A  |
| AWG conductor (field wiring), min. | 26    |
| AWG conductor (field wiring), max. | 14    |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |
| AWG conductor, min.         | 26    |
| AWG conductor, max.         | 14    |

#### Approvals

Approvals institutes



#### Downloads

|                                       |               |
|---------------------------------------|---------------|
| CAD Library (P-CAD Format - Standard) | TOP 1.5GS.LIB |
|---------------------------------------|---------------|

#### Classifications

|            |          |
|------------|----------|
| ETIM 2.0   | NK       |
| ETIM 3.0   | EC001284 |
| eClass 4.1 | NK       |
| eClass 5.0 | NK       |
| eClass 5.1 | NK       |

#### Similar products

| Order No.  | Part designation        | Version   |
|------------|-------------------------|---|
| 0641960000 | TOP1.5GS2/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 2, 90°, Box  |
| 0642060000 | TOP1.5GS3/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 3, 90°, Box  |
| 0642160000 | TOP1.5GS/04/90          | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 4, 90°, Box  |
| 1578820000 | TOP1.5GS5/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 5, 90°, Box  |
| 0593960000 | TOP1.5GS7/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 7, 90°, Box  |
| 0594060000 | TOP1.5GS8/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 8, 90°, Box  |
| 0594160000 | TOP1.5GS9/90 5 2STI OR  | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 9, 90°, Box  |
| 0642260000 | TOP1.5GS/10/90          | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 10, 90°, Box |
| 0594260000 | TOP1.5GS11/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 11, 90°, Box |

|            |                         |   |
|------------|-------------------------|---|
| 0594360000 | TOP1.5GS12/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 12, 90°, Box |
| 0594460000 | TOP1.5GS13/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 13, 90°, Box |
| 0594560000 | TOP1.5GS14/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 14, 90°, Box |
| 0594660000 | TOP1.5GS15/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 15, 90°, Box |
| 0642360000 | TOP1.5GS16/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 16, 90°, Box |
| 0594760000 | TOP1.5GS17/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 17, 90°, Box |
| 1707040000 | TOP1.5GS18/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 18, 90°, Box |
| 0594960000 | TOP1.5GS19/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 19, 90°, Box |
| 0595060000 | TOP1.5GS20/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 20, 90°, Box |
| 0595160000 | TOP1.5GS21/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 21, 90°, Box |
| 0595260000 | TOP1.5GS22/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 22, 90°, Box |
| 0595360000 | TOP1.5GS23/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 23, 90°, Box |
| 0595460000 | TOP1.5GS24/90 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm <sup>2</sup> , Pitch: 5.08 mm, No. of poles: 24, 90°, Box |