



General ordering data

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| Order No. | 0598660000 |
| Part designation | TOP1.5GS20/180 5 2ST OR |
| Version | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 20, 180°, Box |
| EAN | 4008190149949 |
| Qty. | 20 pc(s). |

System parameters

| | |
|---|------------------------|
| Product family | System TOP1.5GS |
| Conductor connection system | TOP connection |
| Fitted to PCB | Soldered connection |
| Outgoing direction of conductor | 180° |
| Pitch | 5.08 mm |
| Pitch in inch | 0.2 inch |
| No. of poles | 20 |
| Fitted by customer | no |
| No. of rows | 1 |
| Solder pin length | 4.5 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 | 96.52 mm |
| L1 in inch | 3.8 inch |
| Electric shock protection to DIN VDE 0470 | IP 20 |
| Electric shock protection to DIN VDE 0470 | Safe from finger touch |

Material data

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|---------------------------|---------------------|
| 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 ² |
| Clamping range, max. | 2.5 mm ² |
| AWG, min. | 26 |
| AWG, max. | 14 |
| Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 2.5 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 2.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, min. | 0.5 mm ² |
| With wire end ferrule, acc. to DIN 46 228/1, max. | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm ² |
| Gauge to EN 60999 a x b; ø | 2.4 mm x 1.5 mm; |

DIN IEC rating data

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|--|-------------------|
| 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

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|------------------------------------|-------|
| 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

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|-----------------------------|-------|
| 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 |
|------------|-------------------------|---|
| 0569960000 | TOP1.5GS2/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 2, 180°, Box |
| 0570160000 | TOP1.5GS3/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 3, 180°, Box |
| 0570360000 | TOP1.5GS4/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 4, 180°, Box |
| 0597360000 | TOP1.5GS5/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 5, 180°, Box |
| 0597460000 | TOP1.5GS6/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 6, 180°, Box |
| 1695700000 | TOP1.5GS7/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 7, 180°, Box |
| 0597660000 | TOP1.5GS8/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 8, 180°, Box |

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|------------|--------------------------|--|
| 1474660000 | TOP1.5GS9/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 9, 180°, Box |
| 0570560000 | TOP1.5GS10/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 10, 180°, Box |
| 1474760000 | TOP1.5GS11/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 11, 180°, Box |
| 0597960000 | TOP1.5GS12/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 12, 180°, Box |
| 1724740000 | TOP1.5GS13/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 13, 180°, Box |
| 0598160000 | TOP1.5GS14/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 14, 180°, Box |
| 1782490000 | TOP1.5GS15/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 15, 180°, Box |
| 0570760000 | TOP1.5GS16/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 16, 180°, Box |
| 0598360000 | TOP1.5GS17/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 17, 180°, Box |
| 0598460000 | TOP1.5GS18/180 5 2STI OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 18, 180°, Box |
| 0598560000 | TOP1.5GS19/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 19, 180°, Box |
| 0598760000 | TOP1.5GS21/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 21, 180°, Box |
| 0598860000 | TOP1.5GS22/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 22, 180°, Box |
| 0598960000 | TOP1.5GS23/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 23, 180°, Box |
| 0599060000 | TOP1.5GS24/180 5 2ST OR | PCB terminal, TOP connection, Soldered connection, Clamping range, max.: 2.5 mm ² , Pitch: 5.08 mm, No. of poles: 24, 180°, Box |