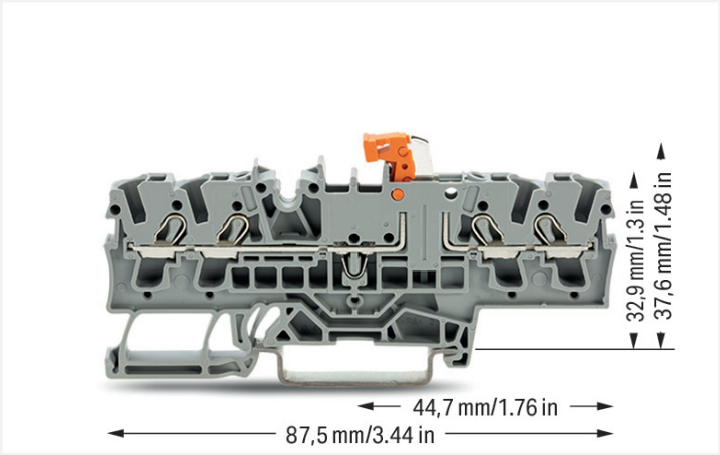
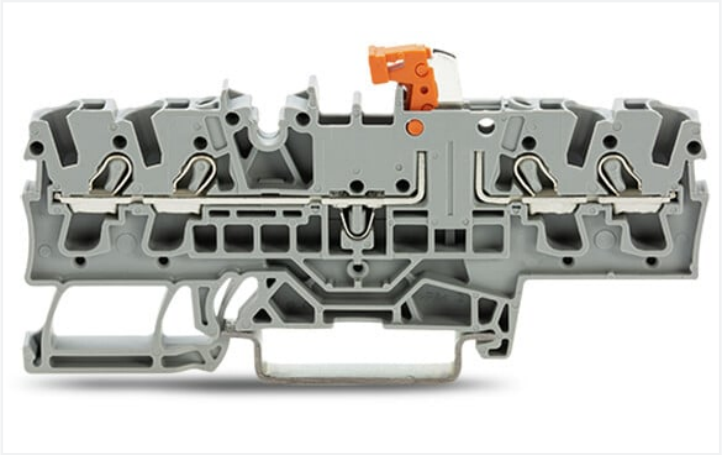
# Data Sheet | Item Number: 2002-1871

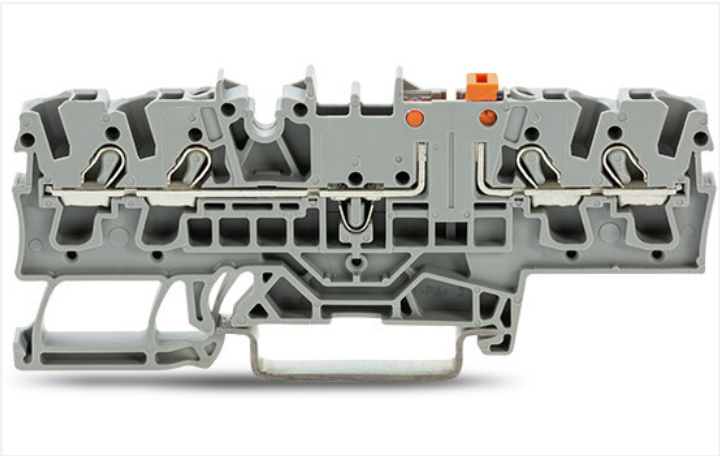
4-conductor disconnect/test terminal block; with test option; orange disconnect link; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP®; 2,50 mm²; gray

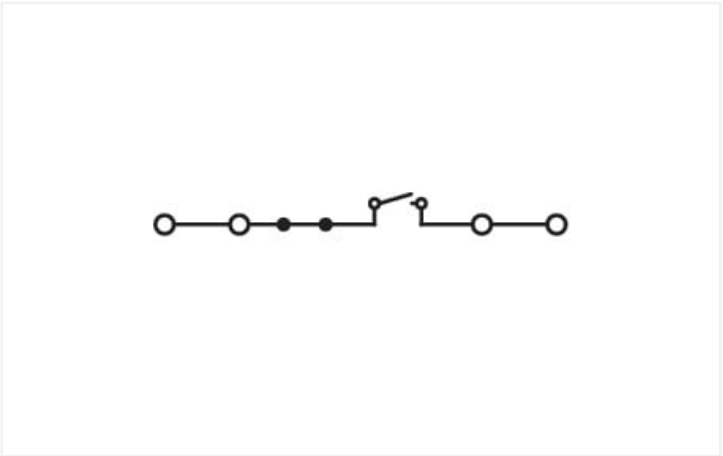
https://www.wago.com/2002-1871



Color: gray





Similar to illustration

## Electrical data

| Ratings per | IEC/EN 60947-7-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 400 V | - | - |
| Rated surge voltage | 6 kV | - | - |
| Rated current | 16 A | - | - |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | 300 V | - |
| Rated current | 15 A | 15 A | - |

| Approvals per | CSA 22.2 No 158 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | 300 V | - |
| Rated current | 15 A | 15 A | - |

| Ex information | |
|---|---|
| Reference hazardous areas | See “Downloads – Documentation – Additional Information: Technical Section; Technical Explications“ |
| Ratings per | ATEX: KIWA 17 ATEX 0030 U / IECEx: KIWA 17.0014U (Ex ec IIC Gc) |
| Rated voltage EN (Ex e II) | 440 V |
| Rated current (Ex e II) | 17 A |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## Power Loss

| | |
|---|---|
| Power loss, per pole (potential) | 0.3405 W |
| Rated current $I_N$ for specified power loss | 16 A |
| Resistance value for specified, current-dependent power loss | 0.00133 Ω |

## Connection data

| | |
|---|---|
| Connection points | 4 |
| Total number of potentials | 2 |
| Number of levels | 1 |
| Number of jumper slots | 2 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 2.5 mm² |
| Solid conductor | 0.25 … 4 mm² / 22 … 12 AWG |
| Solid conductor; push-in termination | 0.75 … 4 mm² / 18 … 12 AWG |
| Fine-stranded conductor | 0.25 … 4 mm² / 22 … 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 … 2.5 mm² / 22 … 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1 … 2.5 mm² / 18 … 14 AWG |
| Note (conductor cross-section) | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
| Strip length | 10 … 12 mm / 0.39 … 0.47 inches |
| Wiring direction | Front-entry wiring |

## Physical data

| | |
|---|---|
| Width | 5.2 mm / 0.205 inches |
| Height | 87.5 mm / 3.445 inches |
| Depth from upper-edge of DIN-rail | 32.9 mm / 1.295 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |
| Marking level | Center/side marking |

## Material data

| | |
|---|---|
| Note (material data) | <a href="https://www.wago.com/us/material-specifications" href="_blank">Information on material specifications can be found here</a> |
| Color | gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.197 MJ |
| Weight | 9.8 g |

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## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 °C |
| Continuous operating temperature | -60 … +105 °C |

## Commercial data

| | |
|---|---|
| Product Group | 22 (TOPJOB S) |
| eCl@ss 10.0 | 27-14-11-26 |
| eCl@ss 9.0 | 27-14-11-26 |
| ETIM 8.0 | EC000902 |
| ETIM 7.0 | EC000902 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4045454974855 |
| Customs tariff number | 85365080900 |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL 7941 |
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 1536069 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 71-124163 |
| UL<br>Underwriters Laboratories Inc. | UL 1059 | E45172 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| ATEX-Attestation of Conformity<br>WAGO GmbH & Co. KG | - | - |
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| Railway<br>WAGO GmbH & Co. KG | - | Railway Ready |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | EN 60947 | 20-HG1941090-PDA |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |

### Approvals for hazardous areas

| Approval | Standard | Certificate Name |
|---|---|---|
| AEx<br>Underwriters Laboratories Inc. | UL 60079 | E185892 (AEx eb IIC resp. Ex eb IIC) |
| ATEX<br>KIWA Netherlands B.V. | EN 60079 | KIWA 17ATEX0030 U |
| CCC<br>CNEX | GB/T 3836.3 | 2020312313000180 (Ex ec IIC Gc) |
| IECEx<br>KIWA Netherlands B.V. | EN 60079 | IECEx KIWA 17.0014U (Ex ec IIC Gc) |

## Installation Notes


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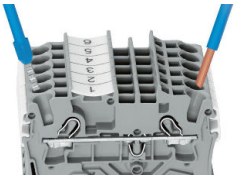
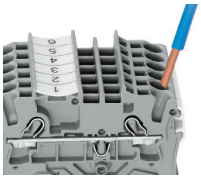
## Conductor termination

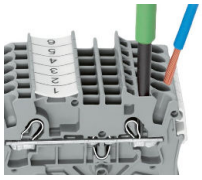
All conductor types at a glance



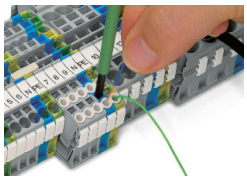
Push-in termination of solid and ferruled conductors



Inserting a conductor via push-in termination:
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

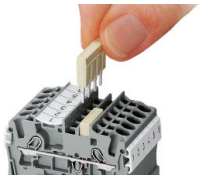


Inserting a conductor via operating tool:
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.
Advantage:
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

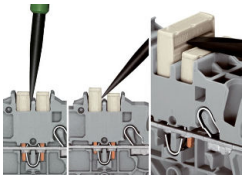


Conductor termination – insulation stop

## Commoning



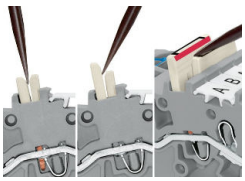
Insert push-in type jumper bar and push down until it hits backstop.



Removing a push-in type jumper bar:
Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper.
Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

## Commoning

Orient the staggered jumpers' red stripes on the inside.
Insert the staggered jumper and push down until it hits the backstop.



Removing a staggered jumper:
Insert the operating tool between the staggered jumpers, then lift up the jumper.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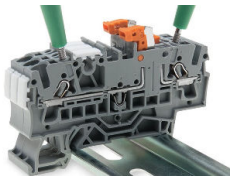
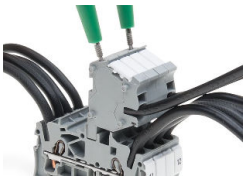
## Testing

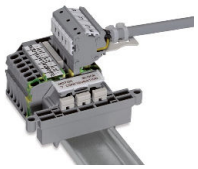


Testing with voltage tester.

The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



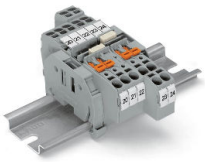
TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



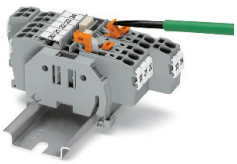
Rail-mount terminal block assembly for electric motor wiring

Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series



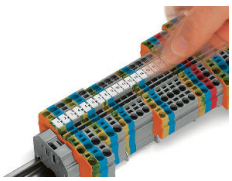
One center and two side marker slots for WMB markers or marking stripsDual jumper slots in the same location as other 2002 Series terminal blocksCommoning options in front of or behind the knife disconnect, depending on the power supply direction



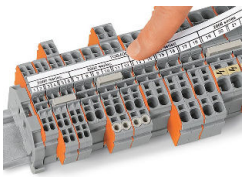
Disconnect/test terminal block with pivoting knife disconnect
Opening a knife disconnect.

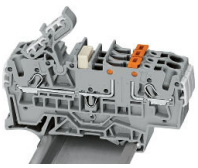
Disconnect/test terminal block with pivoting knife disconnect
Closing the knife disconnect.

## Marking

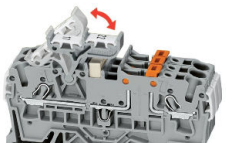


Snapping WMB Inline markers into marker slots.

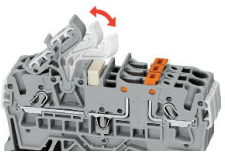




Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)



Pivoting double-deck marker carrier (2002-121) and 2-conductor disconnect/ test terminal block (2002-1671)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