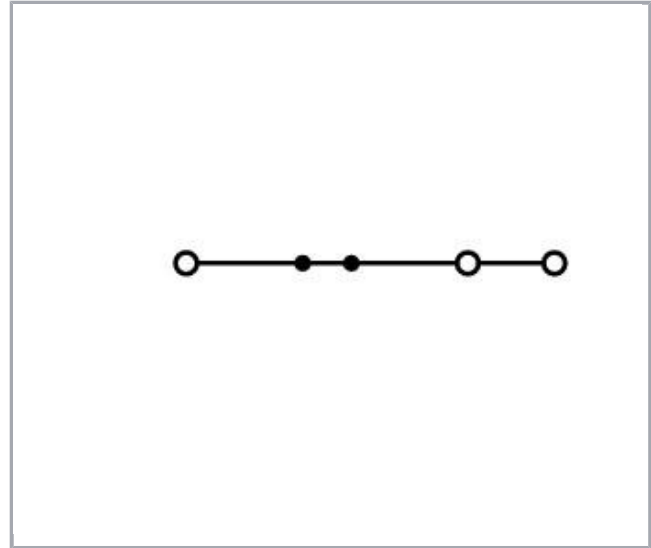


Data sheet | Item number: 2000-1303

3-conductor through terminal block; 1 mm²; suitable for Ex e II applications;
side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE
CLAMP®; 1,00 mm²; red



Data

Electrical data

Ratings per IEC/EN 60664-1

| Ratings per | IEC/EN 60947-7-1 |
|---------------------------------|---|
| Rated voltage (III / 3) | 800 V |
| Rated impulse voltage (III / 3) | 8 kV |
| Rated current | 13.5 A |
| Rated current (2) | 17.5 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Approvals per UL 1059

| | |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 600 V |
| Rated current UL (Use Group B) | 15 A |
| Rated voltage UL (Use Group C) | 600 V |

Subject to changes. Please also observe the further product documentation!



| | |
|--------------------------------|---------|
| Rated current UL (Use Group C) | 15 A |
| Approvals per | UL 1059 |

Approvals per CSA

| | |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 10 A |
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group C) | 10 A |

Approvals Ex

| | |
|-------------------------------------|-------|
| Rated voltage EN (Ex e II) | 550 V |
| Rated current (Ex e II) | 13 A |
| Rated current (Ex e II) with jumper | 12 A |

Connection data

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Push-in Open Tool Slot |
| Connectable conductor materials | Copper |
| Nominal cross section | 1 mm² |
| Solid conductor | 0,14 ... 1,5 mm² / 24 ... 16 AWG |
| Solid conductor, push-in termination | 0,5 ... 1,5 mm² / 20 ... 16 AWG |
| Fine-stranded conductor | 0,14 ... 1,5 mm² / 24 ... 16 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,5 ... 0,75 mm² / 20 ... 18 AWG |
| Fine-stranded conductor with ferrule, push-in termination, from | 0,5 ... 0,75 mm² / 20 ... 18 AWG |
| Strip length | 9 ... 11 mm / 0.35 ... 0.43 inch |
| Total number of connection points | 3 |
| Total number of potentials | 1 |
| Number of levels | 1 |
| Type of wiring | Front-entry wiring |
| Note (conductor cross-section) | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
| Number of jumper slots | 2 |

Geometrical Data

| | |
|---------------------------------------|----------------------|
| Width | 3,5 mm / 0.138 inch |
| Height from upper-edge of DIN-35 rail | 32,9 mm / 1.295 inch |

Subject to changes. Please also observe the further product documentation!

| | |
|-------|----------------------|
| Depth | 58,2 mm / 2.291 inch |
|-------|----------------------|

Mechanical data

| | |
|------------------|---------------------|
| Design | horizontal type |
| Type of mounting | DIN-35 rail |
| Marking level | Center/side marking |

Material Data



| | |
|---------------------|----------------------|
| Color | red |
| Insulating material | Polyamide 66 (PA 66) |
| Fire load | 0.092 MJ |
| Weight | 4.3 g |

Commercial data

| | |
|--------------------|---------------|
| Product Group | 22 (TOPJOB S) |
| Packaging type | BOX |
| Country of origin | CN |
| GTIN | 4045454966867 |
| Customs Tariff No. | 85369010000 |

Approvals / Certificates

Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---|
|  | AEx Underwriters Laboratories Inc. | UL 60079 | E185892 |
|  | ATEX Physikalisch Technische Bundesanstalt | EN 60079 | PTB 11 ATEX 1041 U (II 2 G Ex e IIC GB / I M 2 Ex e I Mb) |

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

Subject to changes. Please also observe the further product documentation!



CCA
DEKRA Certification B.V.

EN 60947

71-
102841







CSA
DEKRA Certification B.V.

C22.2 No. 158

2130762

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | EN 60947 | 20- HG1941090- PDA |
|  | BV Bureau Veritas S.A. | EN 60947 | 38586/A0 BV |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |
|  | LR Lloyds Register | EN 60947 | 91/20112 (E9) |

Counterpart

Compatible products

tools

Subject to changes. Please also observe the further product documentation!



Item no.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



Item no.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Protective Warning Marker



Item no.: 2000-115
Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow

Jumper



Item no.: 2000-402
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; light gray



Item no.: 2000-402/000-005
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; red



Item no.: 2000-402/000-006
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; blue



Item no.: 2000-402/000-018
Push-in type jumper bar; insulated; 2-way; Nominal current 14 A; yellow-green



Item no.: 2000-403
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; light gray



Item no.: 2000-403/000-005
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; red



Item no.: 2000-403/000-006
Push-in type jumper bar; insulated; 3-way; Nominal current 14 A; blue



Item no.: 2000-404
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; light gray



Item no.: 2000-404/000-005
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; red



Item no.: 2000-404/000-006
Push-in type jumper bar; insulated; 4-way; Nominal current 14 A; blue



Item no.: 2000-405
Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; light gray

Subject to changes. Please also observe the further product documentation!



Item no.: 2000-405/000-005

Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; red



Item no.: 2000-405/000-006

Push-in type jumper bar; insulated; 5-way; Nominal current 14 A; blue



Item no.: 2000-405/011-000

Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray



Item no.: 2000-406

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; light gray



Item no.: 2000-406/000-005

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; red



Item no.: 2000-406/000-006

Push-in type jumper bar; insulated; 6-way; Nominal current 14 A; blue



Item no.: 2000-406/020-000

Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray



Item no.: 2000-407

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; light gray



Item no.: 2000-407/000-005

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; red



Item no.: 2000-407/000-006

Push-in type jumper bar; insulated; 7-way; Nominal current 14 A; blue



Item no.: 2000-408

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; light gray



Item no.: 2000-408/000-005

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; red



Item no.: 2000-408/000-006

Push-in type jumper bar; insulated; 8-way; Nominal current 14 A; blue



Item no.: 2000-409

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; light gray

Subject to changes. Please also observe the further product documentation!



Item no.: 2000-409/000-005

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; red



Item no.: 2000-409/000-006

Push-in type jumper bar; insulated; 9-way; Nominal current 14 A; blue



Item no.: 2000-410

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; light gray



Item no.: 2000-410/000-005

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; red



Item no.: 2000-410/000-006

Push-in type jumper bar; insulated; 10-way; Nominal current 14 A; blue



Item no.: 2000-433

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; light gray



Item no.: 2000-433/000-005

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; red



Item no.: 2000-433/000-006

Push-in type jumper bar; insulated; from 1 to 3; Nominal current 14 A; blue



Item no.: 2000-434

Push-in type jumper bar; insulated; from 1 to 4; Nominal current 14 A; light gray



Item no.: 2000-435

Push-in type jumper bar; insulated; from 1 to 5; Nominal current 14 A; light gray



Item no.: 2000-436

Push-in type jumper bar; insulated; from 1 to 6; Nominal current 14 A; light gray



Item no.: 2000-437

Push-in type jumper bar; insulated; from 1 to 7; Nominal current 14 A; light gray



Item no.: 2000-438

Push-in type jumper bar; insulated; from 1 to 8; Nominal current 14 A; light gray



Item no.: 2000-439

Push-in type jumper bar; insulated; from 1 to 9; Nominal current 14 A; light gray



Item no.: 2000-440

Push-in type jumper bar; insulated; from 1 to 10; Nominal current 14 A; light gray



Item no.: 210-103

Wire commoning chain; insulated; 50 connections; black

Subject to changes. Please also observe the further product documentation!



Item no.: 210-123
Wire commoning chain; insulated; 50 connections

End plate



Item no.: 2000-1391
End and intermediate plate; 0.7 mm thick; gray



Item no.: 2000-1392
End and intermediate plate; 0.7 mm thick; orange



Item no.: 209-191
Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

ferrule



Item no.: 216-241
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



Item no.: 216-242
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item no.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Carrier rail



Item no.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm



Item no.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715



Item no.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715



Item no.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm



Item no.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715



Item no.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

















Item no.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715




Item no.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Subject to changes. Please also observe the further product documentation!

















Marking accessories

| | |
|--|---|
|  | Item no.: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type; white |
|  | Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white |
|  | Item no.: 2009-113/000-002 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow |
|  | Item no.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red |
|  | Item no.: 2009-113/000-006 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue |
|  | Item no.: 2009-113/000-007 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray |
|  | Item no.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange |
|  | Item no.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green |
|  | Item no.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green |
|  | Item no.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet |
|  | Item no.: 2009-191 Group marker carrier |
|  | Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white |
| Push-In type wire jumper | |
|  | Item no.: 2009-402 Push-in type wire jumper; insulated; wire length 60 mm; Conductor cross section 0.75 mm ² ; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray |
|  | Item no.: 2009-404 Push-in type wire jumper; insulated; wire length 110 mm; Conductor cross section 0.75 mm ² ; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray |

Subject to changes. Please also observe the further product documentation!

| | |
|--|---|
|  | Item no.: 2009-406 Push-in type wire jumper; insulated; wire length 250 mm; Conductor cross section 0.75 mm ² ; suitable for 2000 and 2020 Series rail-mounted terminal blocks; gray |
|--|---|

check

| | |
|--|---|
|  | Item no.: 2000-510 TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1,00 mm ² ; gray |
|  | Item no.: 2000-511 TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-549 Spacer module; modular; e.g., for bridging commoned terminal blocks; gray |
|  | Item no.: 2000-552 Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-553 Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-554 Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-555 Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-556 Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-557 Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-558 Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-559 Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 1,00 mm ² ; gray |
|  | Item no.: 2000-560 Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,00 mm ² ; gray |
|  | Item no.: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray |
|  | Item no.: 2009-182 Testing tap; for max. 2.5 mm ² ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray |
|  | Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable; red |
|  | Item no.: 210-137 Test plug; 2.3 mm Ø; with 500 mm cable; yellow |

Subject to changes. Please also observe the further product documentation!

Downloads Documentation

Additional Information
Technical explanations

Apr 3, 2019

CAD/CAE-Data

CAD data

2D/3D Models 2000-1303

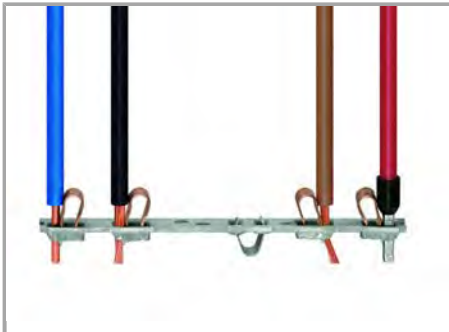
CAE data

EPLAN Data Portal 2000-1303

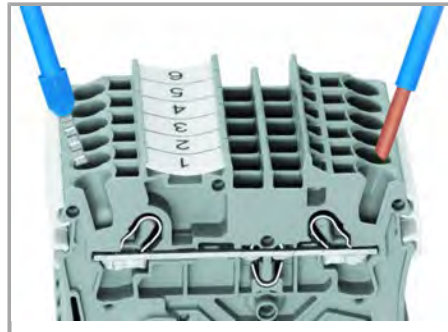
WSCAD Universe 2000-1303

Installation Notes

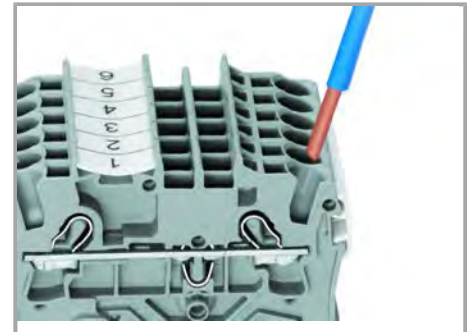
Conductor termination



All conductor types at a glance



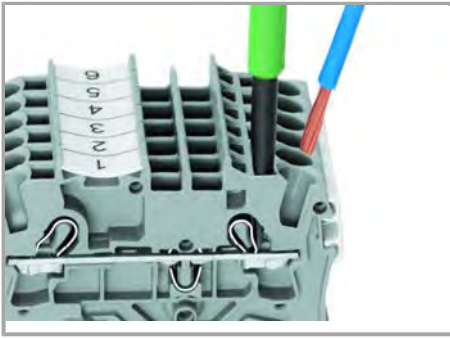
Terminating solid and ferruled conductors via push-in connection.



Inserting conductors 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.

Subject to changes. Please also observe the further product documentation!



Inserting a conductor via operating tool.

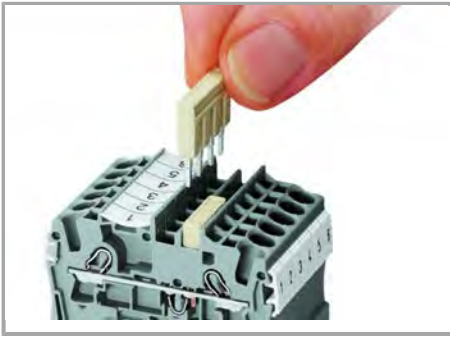
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.

The smart feature:

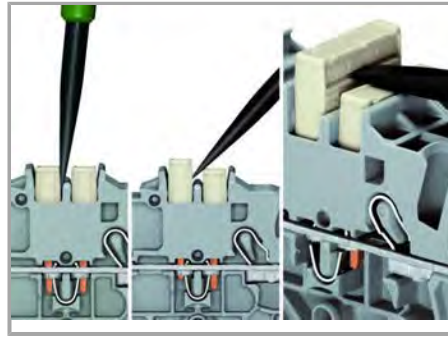
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning

Subject to changes. Please also observe the further product documentation!



The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).

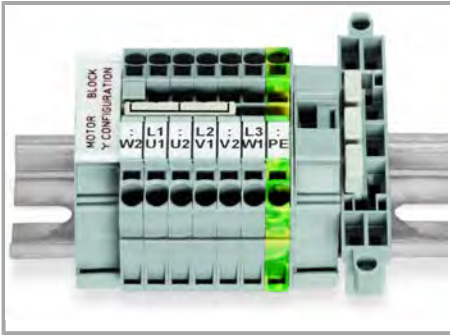


Removing a push-in type jumper bar.

Insert the operating tool between the jumper and the partition wall of the dual jumper slots, then lift up the jumper.

Place the operating tool in the center of jumpers up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

Commoning



This star point jumper has been specially developed to create a "star point" and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



Push down the wire jumper (2009-402) until fully inserted. Lift the jumper with an operating tool for rewiring.

Testing

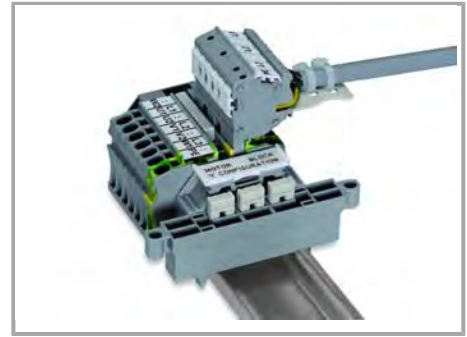
Subject to changes. Please also observe the further product documentation!



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

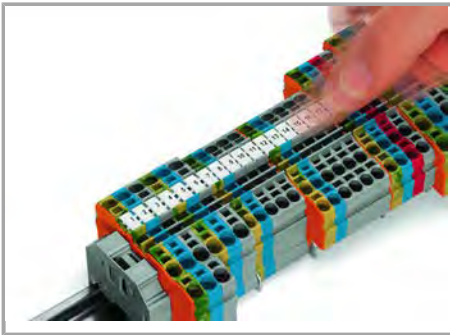


Test plug adapter (2009-174, CAT II) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

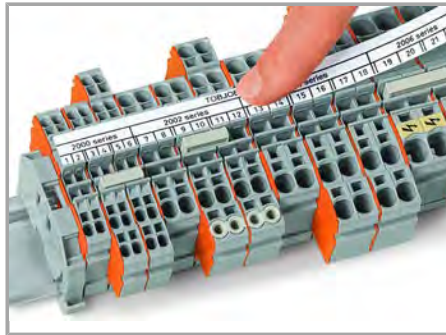


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Marking



Snapping WMB Inline markers into marker slots.

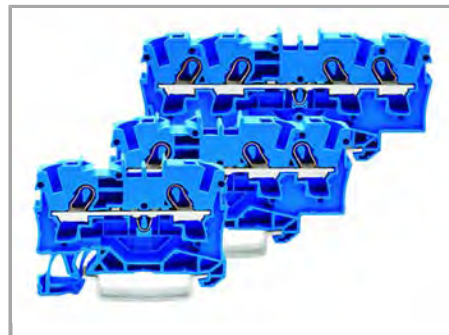


Subject to changes. Please also observe the further product documentation!



TOPJOB® S 2009-193 Group Marker Carrier (equipped with a marking strip) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks

Do not use on an end plate!



Through terminal blocks with a blue insulated housing are suitable for Ex i applications.



All through and ground conductor terminal blocks are suitable for Ex e II applications.

Subject to changes. Please also observe the further product documentation!



Separator for Ex e/Ex applications

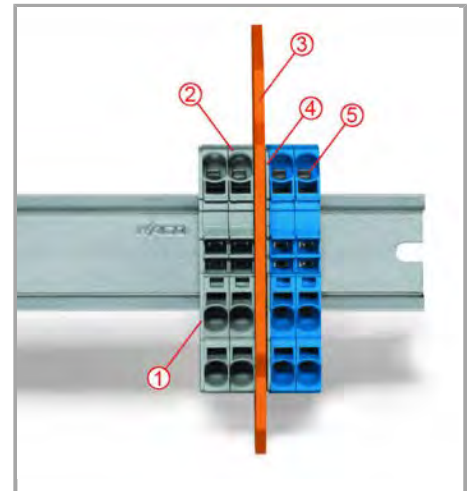
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.



Ex e II/Ex i terminal strip

Notice:

The movable feet of terminal blocks and separator plates must face the same direction.



Separator located between Ex e II and Ex i terminal strip

End plate

Ex e II terminal blocks

Separator for Ex e/Ex i applications

End plate

Ex i terminal blocks

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common carrier rail.

Product family

TOPJOB® S

Subject to changes. Please also observe the further product documentation!



TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!