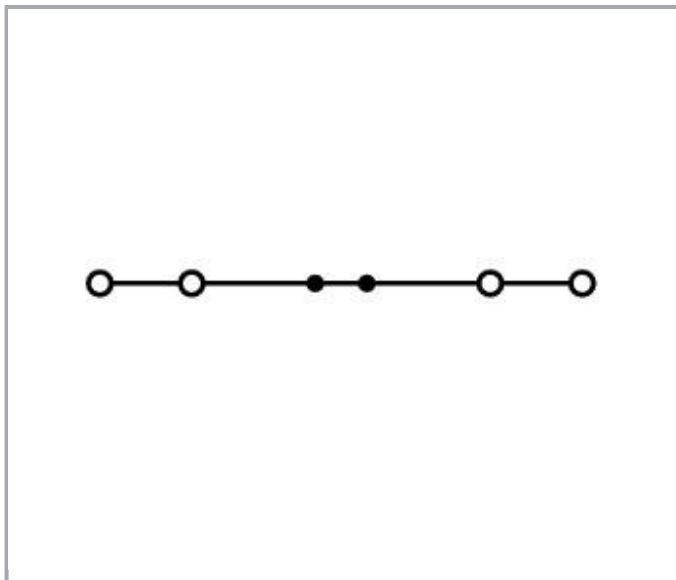
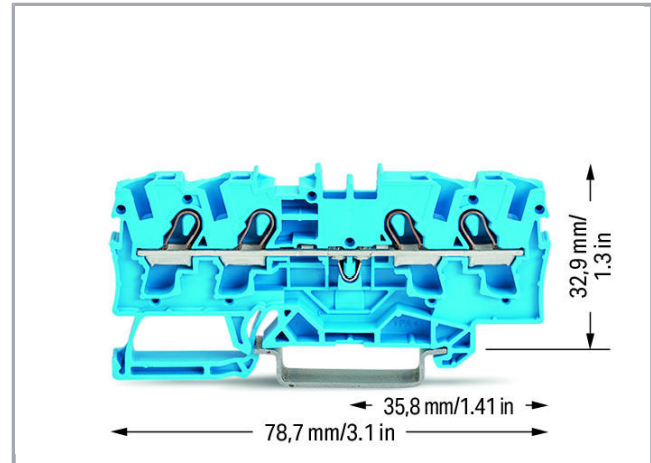
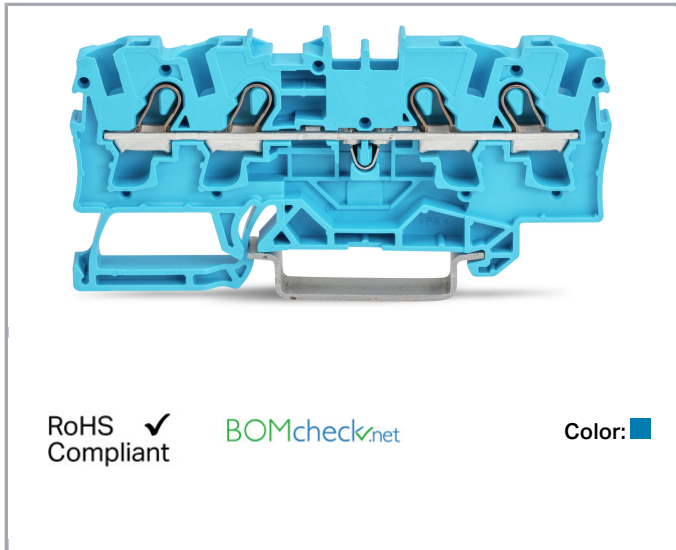


## Data sheet | Item number: 2004-1404

4-conductor through terminal block; 4 mm<sup>2</sup>; for Ex e II and Ex i applications;  
side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE  
CLAMP®; 4,00 mm<sup>2</sup>; blue

[www.wago.com/2004-1404](http://www.wago.com/2004-1404)



### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

Ratings per

IEC/EN 60947-7-1

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

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|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| Nominal voltage (III/3)     | 800 V                                                             |
| Rated surge voltage (III/3) | 8 kV                                                              |
| Rated current               | 32 A                                                              |
| Rated current 2             | 41 A                                                              |
| Legend (ratings)            | (III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3 |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 600 V |
| Rated current UL (Use Group B) | 30 A  |
| Rated voltage UL (Use Group C) | 600 V |
| Rated current UL (Use Group C) | 30 A  |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 30 A  |
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group C) | 30 A  |

### Approvals Ex

|                            |       |
|----------------------------|-------|
| Rated voltage EN (Ex e II) | 550 V |
| Rated current (Ex e II)    | 30 A  |

### Connection data

|                                                            |                                   |
|------------------------------------------------------------|-----------------------------------|
| Connection technology                                      | Push-in CAGE CLAMP®               |
| Actuation type                                             | Push-in<br>Open Tool Slot         |
| Connectable conductor materials                            | Copper                            |
| Nominal cross-section                                      | 4 mm²                             |
| Solid conductor                                            | 0,5 ... 6 mm² / 20 ... 10 AWG     |
| Solid conductor; push-in termination                       | 1,5 ... 6 mm² / 14 ... 10 AWG     |
| Fine-stranded conductor                                    | 0,5 ... 6 mm² / 20 ... 10 AWG     |
| Fine-stranded conductor; with insulated ferrule            | 1,5 ... 4 mm² / 18 ... 12 AWG     |
| Fine-stranded conductor; with ferrule; push-in termination | 1,5 ... 4 mm² / 18 ... 12 AWG     |
| Strip length                                               | 11 ... 13 mm / 0.43 ... 0.51 inch |
| Total number of connection points                          | 4                                 |
| Total number of potentials                                 | 1                                 |

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|                                |                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Number of levels               | 1                                                                                                                                 |
| Wiring type                    | 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                              | 6,2 mm / 0.244 inch  |
| Height from upper-edge of DIN-rail | 32,9 mm / 1.295 inch |
| Depth                              | 78,7 mm / 3.098 inch |

## Mechanical data

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

## Material Data

|                     |                      |
|---------------------|----------------------|
| Color               | blue                 |
| Insulation material | Polyamide 66 (PA 66) |
| Fire load           | 0.181 MJ             |
| Weight              | 10.6 g               |

## Commercial data

|                       |               |
|-----------------------|---------------|
| Product Group         | 22 (TOPJOB S) |
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4017332071826 |
| Customs tariff number | 85369010000   |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                               | Approval                              | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------|
|  | AEx<br>Underwriters Laboratories Inc. | EN 60079                 | E185892          |

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ATEX  
Physikalisch Technische Bundesanstalt (PTB)

EN 60079

PTB 05  
ATEX  
1095 U (II  
2 G/D Ex  
eII bzw. I  
M2 Ex eI)

## Country specific Approvals

| Logo                                                                             | Approval                               | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|----------------------------------------|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V. | EN 60947                 | 2160584.10       |
|  | <b>CCA</b><br>DEKRA Certification B.V. | EN 60947                 | NTR NL-7088      |

## Ship Approvals

| Logo                                                                               | Approval                                  | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|------------------|
|   | <b>ABS</b><br>American Bureau of Shipping | -                        | 20-HG1941090-PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.          | EN 60947                 | 38586/A0<br>BV   |
|  | <b>LR</b><br>Lloyds Register              | EN 60947                 | 91/20112<br>(E9) |

## UL-Approvals

| Logo                                                                               | Approval                                   | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Germany GmbH | UL 1059                  | E45172           |

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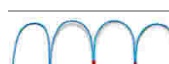
## Counterpart

## Compatible products

## Jumper

|                                                                                    |                                                                                                                      |                                                                                  |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <b>Item no.: 2004-402</b><br>Push-in type jumper bar; insulated; 2-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-402">www.wago.com/2004-402</a>                 |
|    | <b>Item no.: 2004-403</b><br>Push-in type jumper bar; insulated; 3-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-403">www.wago.com/2004-403</a>                 |
|    | <b>Item no.: 2004-404</b><br>Push-in type jumper bar; insulated; 4-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-404">www.wago.com/2004-404</a>                 |
|    | <b>Item no.: 2004-405</b><br>Push-in type jumper bar; insulated; 5-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-405">www.wago.com/2004-405</a>                 |
|  | <b>Item no.: 2004-405/011-000</b><br>Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray | <a href="http://www.wago.com/2004-405/011-000">www.wago.com/2004-405/011-000</a> |
|  | <b>Item no.: 2004-406</b><br>Push-in type jumper bar; insulated; 6-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-406">www.wago.com/2004-406</a>                 |
|  | <b>Item no.: 2004-406/020-000</b><br>Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray        | <a href="http://www.wago.com/2004-406/020-000">www.wago.com/2004-406/020-000</a> |
|  | <b>Item no.: 2004-407</b><br>Push-in type jumper bar; insulated; 7-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-407">www.wago.com/2004-407</a>                 |
|  | <b>Item no.: 2004-408</b><br>Push-in type jumper bar; insulated; 8-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-408">www.wago.com/2004-408</a>                 |
|  | <b>Item no.: 2004-409</b><br>Push-in type jumper bar; insulated; 9-way; Nominal current 32 A; light gray             | <a href="http://www.wago.com/2004-409">www.wago.com/2004-409</a>                 |
|  | <b>Item no.: 2004-410</b><br>Push-in type jumper bar; insulated; 10-way; Nominal current 32 A; light gray            | <a href="http://www.wago.com/2004-410">www.wago.com/2004-410</a>                 |
|  | <b>Item no.: 2004-433</b><br>Push-in type jumper bar; insulated; from 1 to 3; Nominal current 32 A; light gray       | <a href="http://www.wago.com/2004-433">www.wago.com/2004-433</a>                 |

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

|                                                                                    |                                                                                                                                                       |                                                                  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | <b>Item no.: 2004-434</b><br>Push-in type jumper bar; insulated; from 1 to 4; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-434">www.wago.com/2004-434</a> |
|    | <b>Item no.: 2004-435</b><br>Push-in type jumper bar; insulated; from 1 to 5; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-435">www.wago.com/2004-435</a> |
|    | <b>Item no.: 2004-436</b><br>Push-in type jumper bar; insulated; from 1 to 6; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-436">www.wago.com/2004-436</a> |
|    | <b>Item no.: 2004-437</b><br>Push-in type jumper bar; insulated; from 1 to 7; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-437">www.wago.com/2004-437</a> |
|    | <b>Item no.: 2004-438</b><br>Push-in type jumper bar; insulated; from 1 to 8; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-438">www.wago.com/2004-438</a> |
|    | <b>Item no.: 2004-439</b><br>Push-in type jumper bar; insulated; from 1 to 9; Nominal current 32 A; light gray                                        | <a href="http://www.wago.com/2004-439">www.wago.com/2004-439</a> |
|    | <b>Item no.: 2004-440</b><br>Push-in type jumper bar; insulated; from 1 to 10; Nominal current 32 A; light gray                                       | <a href="http://www.wago.com/2004-440">www.wago.com/2004-440</a> |
|    | <b>Item no.: 2006-499</b><br>Step-down jumper; insulated; from 6/4 mm <sup>2</sup> to 4/2.5/1.5 mm <sup>2</sup> ; Nominal current 32 A; light gray    | <a href="http://www.wago.com/2006-499">www.wago.com/2006-499</a> |
|    | <b>Item no.: 2016-499</b><br>Step-down jumper; insulated; from 16/10 mm <sup>2</sup> to 10/6/4/2.5 mm <sup>2</sup> ; Nominal current 57 A; light gray | <a href="http://www.wago.com/2016-499">www.wago.com/2016-499</a> |
|   | <b>Item no.: 210-103</b><br>Wire commoning chain; insulated; black                                                                                    | <a href="http://www.wago.com/210-103">www.wago.com/210-103</a>   |
|  | <b>Item no.: 210-123</b><br>Wire commoning chain; insulated; blue                                                                                     | <a href="http://www.wago.com/210-123">www.wago.com/210-123</a>   |
| <b>tools</b>                                                                       |                                                                                                                                                       |                                                                  |
|  | <b>Item no.: 210-658</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short                                      | <a href="http://www.wago.com/210-658">www.wago.com/210-658</a>   |
|  | <b>Item no.: 210-720</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft                                                     | <a href="http://www.wago.com/210-720">www.wago.com/210-720</a>   |
| <b>Protective Warning Marker</b>                                                   |                                                                                                                                                       |                                                                  |
|  | <b>Item no.: 2004-115</b><br>Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow                                | <a href="http://www.wago.com/2004-115">www.wago.com/2004-115</a> |
| <b>check</b>                                                                       |                                                                                                                                                       |                                                                  |
|  | <b>Item no.: 2004-511</b><br>Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 4,00 mm <sup>2</sup> ; gray                        | <a href="http://www.wago.com/2004-511">www.wago.com/2004-511</a> |
|  | <b>Item no.: 2004-549</b><br>Spacer module; modular; e.g., for bridging commoned terminal blocks; gray                                                | <a href="http://www.wago.com/2004-549">www.wago.com/2004-549</a> |
|  | <b>Item no.: 2004-552</b><br>Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 4,00 mm <sup>2</sup> ; gray                        | <a href="http://www.wago.com/2004-552">www.wago.com/2004-552</a> |

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

**Item no.: 2004-553**

Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 4,00 mm²; gray

[www.wago.com/2004-553](http://www.wago.com/2004-553)**Item no.: 2004-554**

Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 4,00 mm²; gray

[www.wago.com/2004-554](http://www.wago.com/2004-554)**Item no.: 2004-555**

Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 4,00 mm²; gray

[www.wago.com/2004-555](http://www.wago.com/2004-555)**Item no.: 2009-174**

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

[www.wago.com/2009-174](http://www.wago.com/2009-174)**Item no.: 2009-182**

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

[www.wago.com/2009-182](http://www.wago.com/2009-182)**Insulation stop****Item no.: 2004-171**

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

[www.wago.com/2004-171](http://www.wago.com/2004-171)**Item no.: 2004-172**

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

[www.wago.com/2004-172](http://www.wago.com/2004-172)**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

[www.wago.com/210-112](http://www.wago.com/210-112)**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715

[www.wago.com/210-113](http://www.wago.com/210-113)**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715

[www.wago.com/210-114](http://www.wago.com/210-114)**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

[www.wago.com/210-115](http://www.wago.com/210-115)**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

[www.wago.com/210-118](http://www.wago.com/210-118)**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

[www.wago.com/210-196](http://www.wago.com/210-196)**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715

[www.wago.com/210-197](http://www.wago.com/210-197)**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

[www.wago.com/210-198](http://www.wago.com/210-198)**Item no.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715

[www.wago.com/210-504](http://www.wago.com/210-504)**Item no.: 210-505**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715

[www.wago.com/210-505](http://www.wago.com/210-505)

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

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**Item no.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

[www.wago.com/210-506](http://www.wago.com/210-506)**Item no.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

[www.wago.com/210-508](http://www.wago.com/210-508)**End plate****Item no.: 2004-1493**

Separator plate; 2 mm thick; oversized; gray

[www.wago.com/2004-1493](http://www.wago.com/2004-1493)**Item no.: 2004-1494**

Separator plate; 2 mm thick; oversized; orange

[www.wago.com/2004-1494](http://www.wago.com/2004-1494)**Item no.: 209-191**

Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

[www.wago.com/209-191](http://www.wago.com/209-191)**ferrule****Item no.: 216-262**

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

[www.wago.com/216-262](http://www.wago.com/216-262)**Item no.: 216-263**

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

[www.wago.com/216-263](http://www.wago.com/216-263)**Item no.: 216-264**

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

[www.wago.com/216-264](http://www.wago.com/216-264)**Item no.: 216-266**

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

[www.wago.com/216-266](http://www.wago.com/216-266)**Item no.: 216-267**

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

[www.wago.com/216-267](http://www.wago.com/216-267)**Marking accessories****Item no.: 2009-110**

Marking strips; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)**Item no.: 2009-115/000-002**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)**Item no.: 2009-115/000-005**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/2009-115/000-005](http://www.wago.com/2009-115/000-005)**Item no.: 2009-115/000-006**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)

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|                                                                                    |                                                                                                                                                   |                                                                                  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <b>Item no.: 2009-115/000-007</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray        | <a href="http://www.wago.com/2009-115/000-007">www.wago.com/2009-115/000-007</a> |
|    | <b>Item no.: 2009-115/000-012</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange      | <a href="http://www.wago.com/2009-115/000-012">www.wago.com/2009-115/000-012</a> |
|    | <b>Item no.: 2009-115/000-017</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green | <a href="http://www.wago.com/2009-115/000-017">www.wago.com/2009-115/000-017</a> |
|    | <b>Item no.: 2009-115/000-023</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green       | <a href="http://www.wago.com/2009-115/000-023">www.wago.com/2009-115/000-023</a> |
|    | <b>Item no.: 2009-115/000-024</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet      | <a href="http://www.wago.com/2009-115/000-024">www.wago.com/2009-115/000-024</a> |
|    | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white          | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>                 |
|    | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <a href="http://www.wago.com/2009-145/000-002">www.wago.com/2009-145/000-002</a> |
|  | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red    | <a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a> |
|  | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue   | <a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a> |
|  | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray   | <a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a> |
|  | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a> |
|  | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green  | <a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a> |
|  | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a> |
|  | <b>Item no.: 2009-191</b><br>Group marker carrier                                                                                                 | <a href="http://www.wago.com/2009-191">www.wago.com/2009-191</a>                 |

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



**Item no.: 2009-192**  
Group marker carrier

[www.wago.com/2009-192](http://www.wago.com/2009-192)



**Item no.: 2009-193**  
Group marker carrier

[www.wago.com/2009-193](http://www.wago.com/2009-193)



**Item no.: 2009-198**  
Adaptor

[www.wago.com/2009-198](http://www.wago.com/2009-198)



**Item no.: 248-501**  
Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card

[www.wago.com/248-501](http://www.wago.com/248-501)



**Item no.: 248-501/000-002**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/248-501/000-002](http://www.wago.com/248-501/000-002)



**Item no.: 248-501/000-005**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/248-501/000-005](http://www.wago.com/248-501/000-005)



**Item no.: 248-501/000-006**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/248-501/000-006](http://www.wago.com/248-501/000-006)



**Item no.: 248-501/000-007**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/248-501/000-007](http://www.wago.com/248-501/000-007)



**Item no.: 248-501/000-012**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/248-501/000-012](http://www.wago.com/248-501/000-012)



**Item no.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/248-501/000-017](http://www.wago.com/248-501/000-017)



**Item no.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/248-501/000-023](http://www.wago.com/248-501/000-023)



**Item no.: 248-501/000-024**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/248-501/000-024](http://www.wago.com/248-501/000-024)



**Item no.: 793-501**  
WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)



**Item no.: 793-501/000-002**  
WMB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/793-501/000-002](http://www.wago.com/793-501/000-002)



**Item no.: 793-501/000-005**  
WMB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/793-501/000-005](http://www.wago.com/793-501/000-005)

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

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**Item no.: 793-501/000-006**  
WMB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/793-501/000-006](http://www.wago.com/793-501/000-006)



**Item no.: 793-501/000-007**  
WMB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/793-501/000-007](http://www.wago.com/793-501/000-007)



**Item no.: 793-501/000-012**  
WMB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/793-501/000-012](http://www.wago.com/793-501/000-012)



**Item no.: 793-501/000-017**  
WMB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/793-501/000-017](http://www.wago.com/793-501/000-017)



**Item no.: 793-501/000-023**  
WMB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)



**Item no.: 793-501/000-024**  
WMB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)



**Item no.: 793-5501**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/793-5501](http://www.wago.com/793-5501)



**Item no.: 793-5501/000-002**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

[www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)



**Item no.: 793-5501/000-005**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

[www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)



**Item no.: 793-5501/000-006**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

[www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)



**Item no.: 793-5501/000-007**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

[www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)



**Item no.: 793-5501/000-012**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

[www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)



**Item no.: 793-5501/000-014**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

[www.wago.com/793-5501/000-014](http://www.wago.com/793-5501/000-014)

**Item no.: 793-5501/000-017**

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WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green [www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)

**Item no.: 793-5501/000-023**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green [www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)

**Item no.: 793-5501/000-024**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet [www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)

**Downloads****Documentation****Bid Text**

|                                |              |                 |          |
|--------------------------------|--------------|-----------------|----------|
| 2004-1404<br>GAEB docx - Datei | Aug 7, 2018  | docx<br>15.1 kB | Download |
| 2004-1404<br>GAEB X81 - Datei  | Feb 19, 2019 | xml<br>4.0 kB   | Download |

**CAD/CAE-Data****CAD data**

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2004-1404 | URL | Download |
|------------------------|-----|----------|

**CAE data**

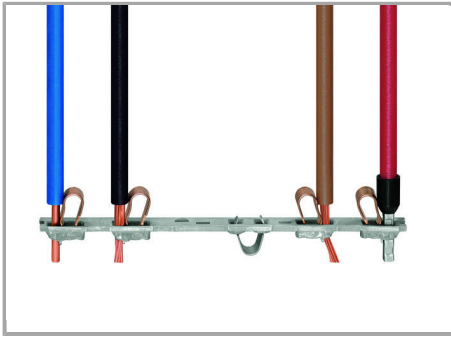
|                             |     |          |
|-----------------------------|-----|----------|
| EPLAN Data Portal 2004-1404 | URL | Download |
| WSCAD Universe 2004-1404    | URL | Download |

**Installation Notes****Conductor termination**

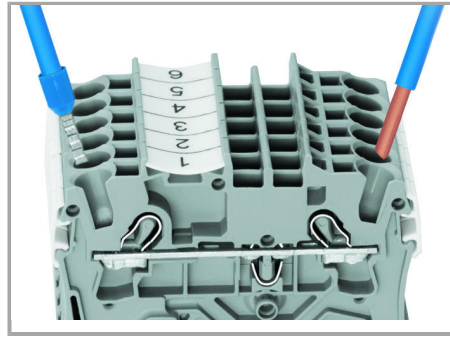
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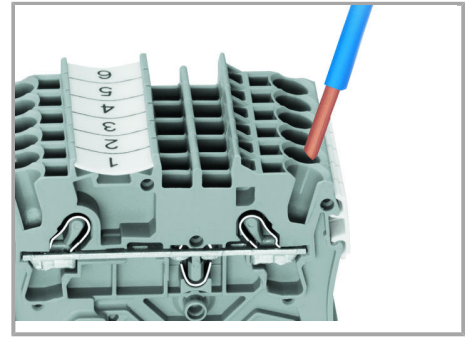
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All conductor types at a glance



Terminating solid and ferruled conductors via push-in connection.



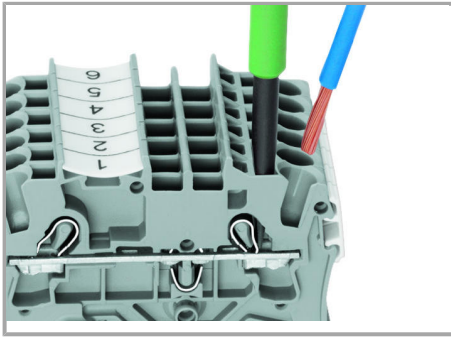
Inserting conductors via push-in termination.

**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.

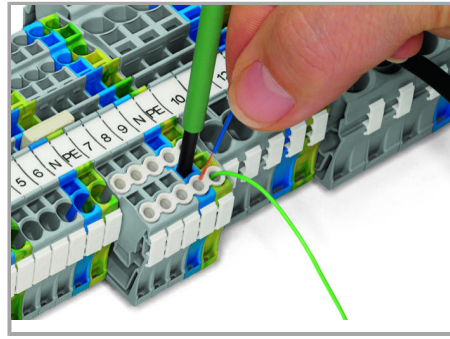
Subject to changes. Please also observe the further product documentation!

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Inserting a conductor via operating tool.



Conductor termination – Insulation stop.

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:

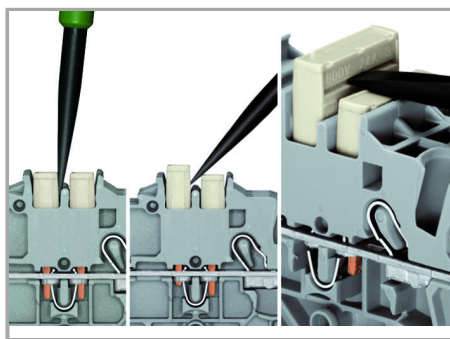
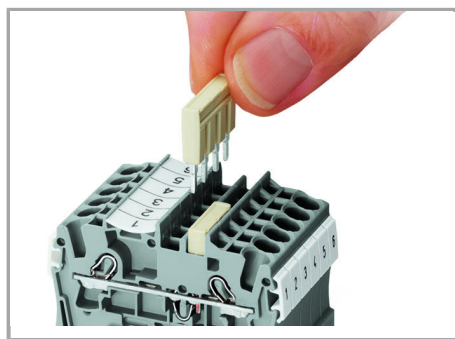
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

#### Commoning

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

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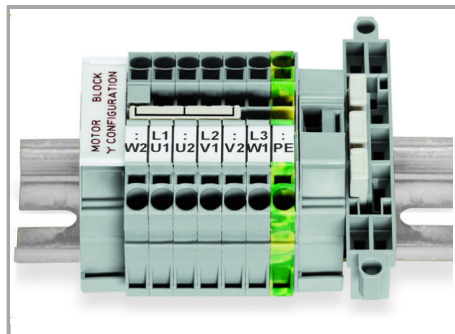
The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the 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.

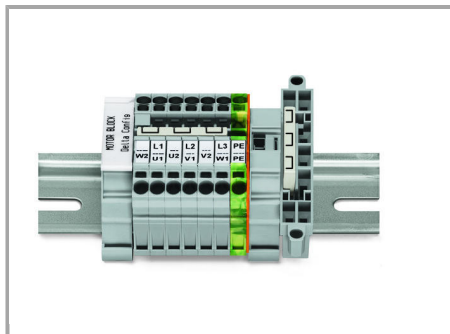
Insert the operating tool between the jumper and the partition wall of the dual jumper slots, then lift up the jumper.

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.

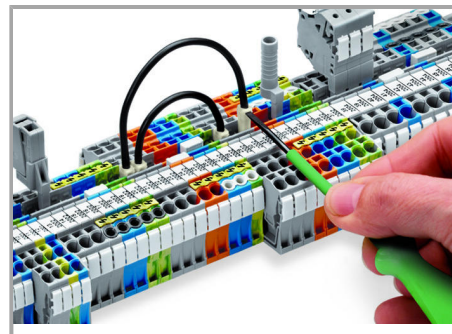
#### Commoning



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.



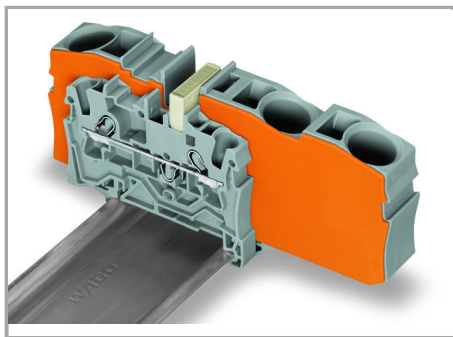
This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with TOPJOB® S rail-mount terminal blocks.



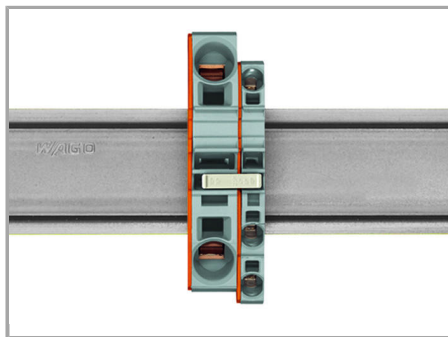
Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

#### Commoning

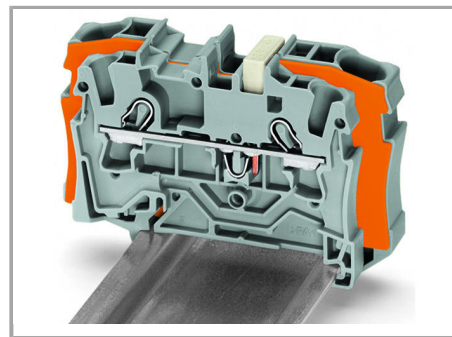
Subject to changes. Please also observe the further product documentation!



Step-down jumpers may common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drops may be problematic. A large conductor can be easily connected to smaller conductors at the distribution point.



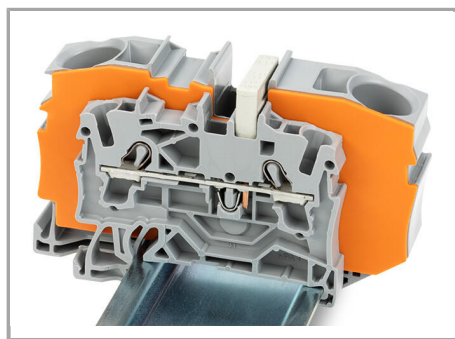
Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.



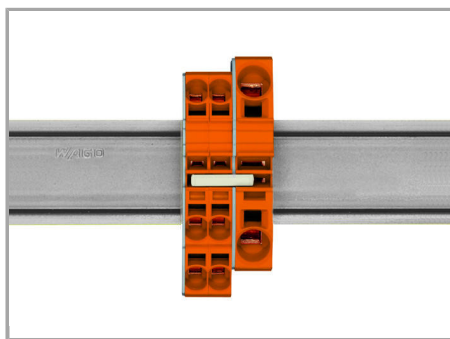
**Step-down jumper (2006-499)** commons 6 /4 mm<sup>2</sup> (10/12 AWG) terminal blocks (2006 /2004 Series) with 4/2.5/1.5 mm<sup>2</sup> (12/14/16 AWG) terminal blocks (2004/2002/2001 Series).

Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.

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

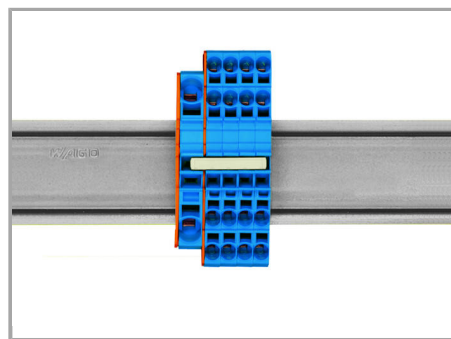


**Step-down jumper (2016-499)** commons 16 /10 mm<sup>2</sup> (16/8 AWG) terminal blocks (2016 /2010 Series) with 10/6/4/2.5 mm<sup>2</sup> (8/10/12 /14 AWG) terminal blocks (2010/2006/2004 /2002 Series).



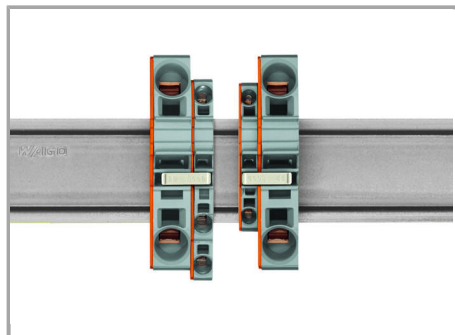
**Stepping down via push-in type jumper bar.**

Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm<sup>2</sup> (6 AWG) and 10 mm<sup>2</sup> (8 AWG) and one cross-section size for 6/4/2.5 mm<sup>2</sup> (10/12/14 AWG). An example: from 16 mm<sup>2</sup> (6 AWG) to 6 mm<sup>2</sup> (10 AWG) (see illustration above) or from 10 mm<sup>2</sup> (8 AWG) to 4 mm<sup>2</sup> (12 AWG).



**Stepping down via push-in type jumper bar.**

Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm<sup>2</sup> (6 AWG) to 6 mm<sup>2</sup> (10 AWG) or from 6 mm<sup>2</sup> (10 AWG) to 2.5 mm<sup>2</sup> (14 AWG) (see illustration above).

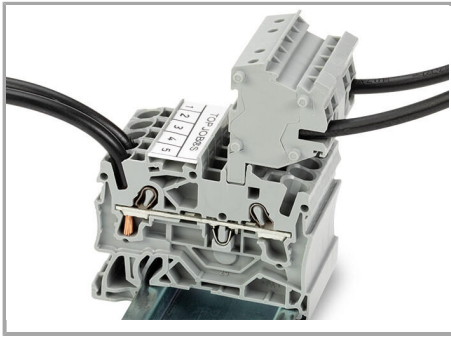


#### Note:

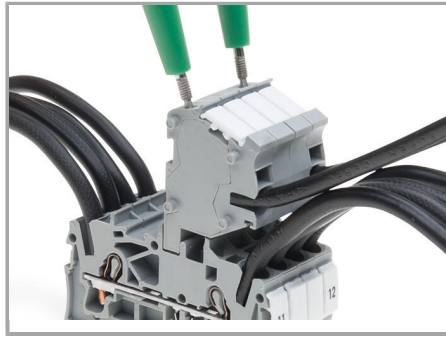
The total current of the outgoing circuits shall not exceed the nominal current of the step-down jumper/push-in type jumper bar.

#### Testing

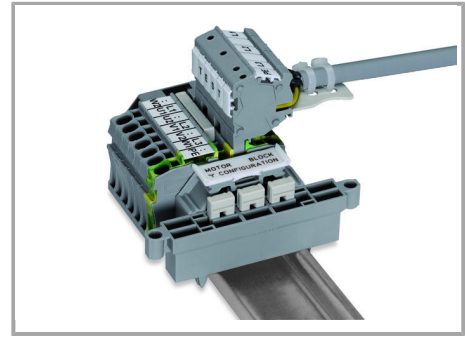
Subject to changes. Please also observe the further product documentation!



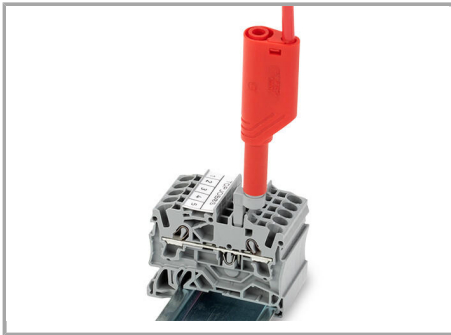
The modular TOPJOB® S connectors also connect conductors of the same size as the terminal blocks being used.



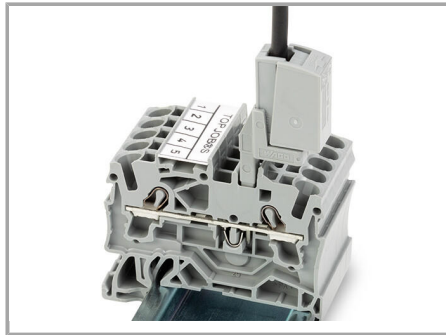
TOPJOB® S Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



Rail-mount terminal block assembly for electric motor wiring

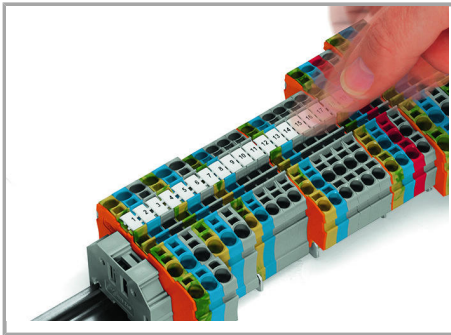


Test plug adapter (2009-174, CAT II) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

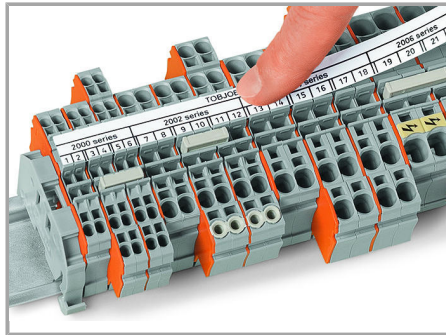


Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

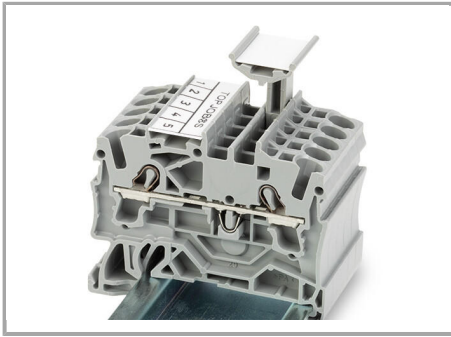
## Marking



Snapping WMB Inline markers into marker slots.

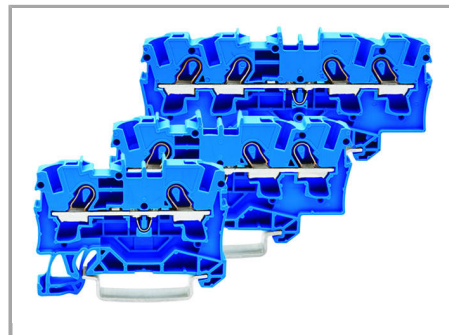
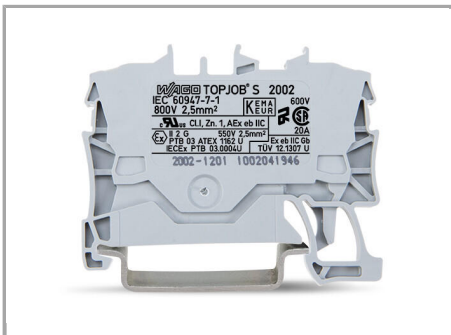


Subject to changes. Please also observe the further product documentation!



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!

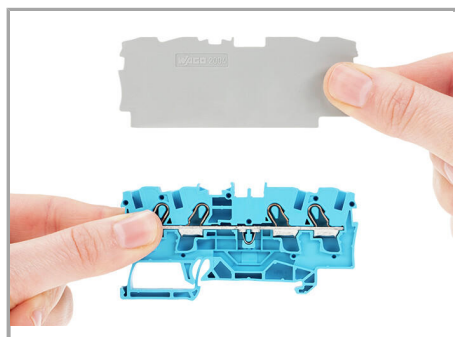


Through terminal blocks with a blue  
insulated housing are suitable for Ex i  
applications.



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

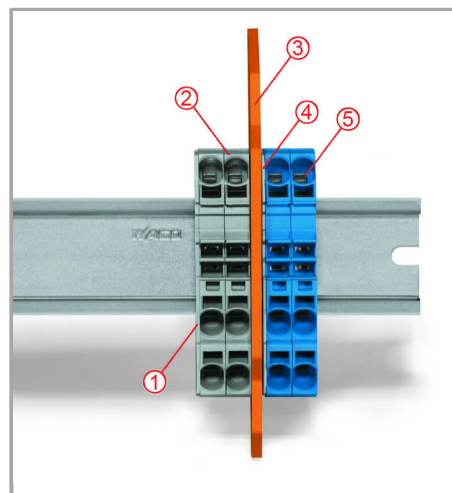


Ex e II/Ex i terminal strip

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

**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

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

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#### TOPJOB® S

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.

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