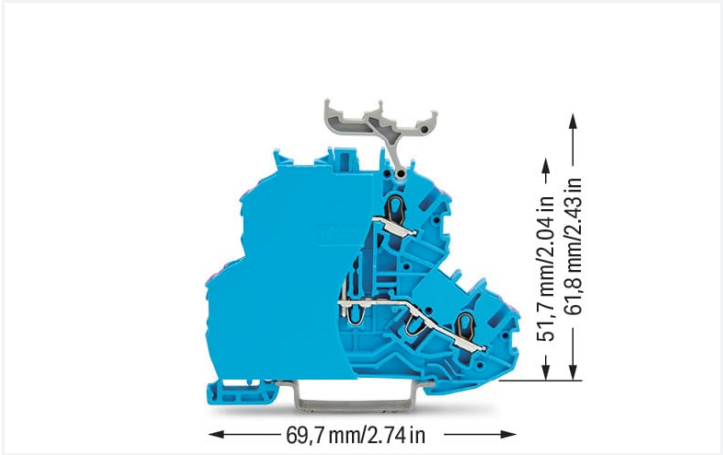


Data Sheet | Item Number: 2000-2239/099-000

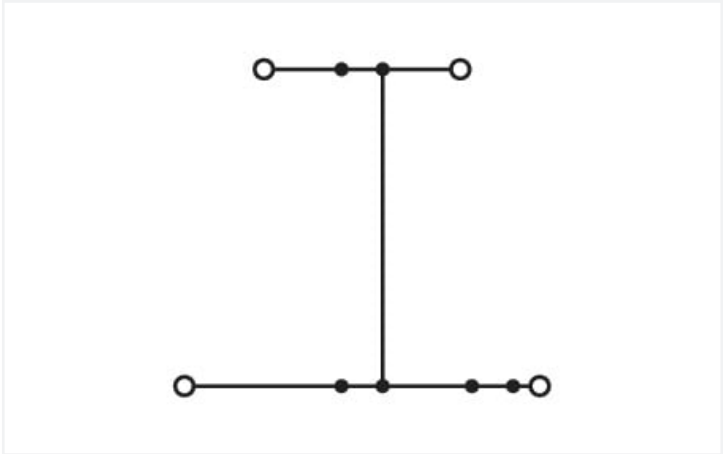
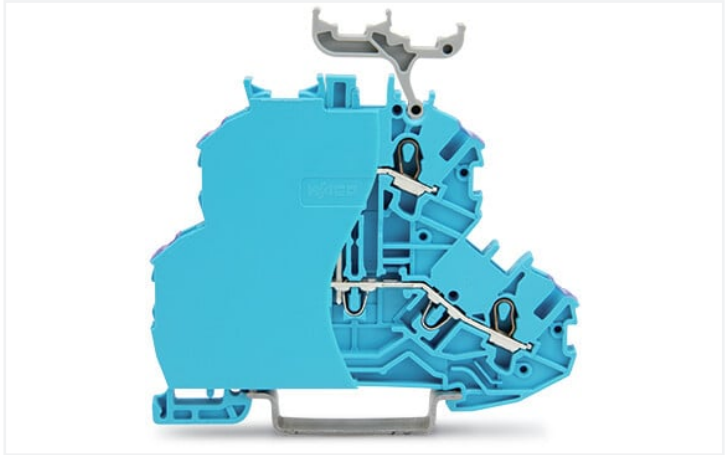
Double-deck terminal block; 4-conductor through terminal block; with end plate; N; with marker carrier; suitable for Ex i applications; internal commoning; conductor entry with violet marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue



<https://www.wago.com/2000-2239/099-000>



Color: ■ blue



Similar to illustration

| Electrical data                               |  |                                                                                                     |       |    |
|-----------------------------------------------|--|-----------------------------------------------------------------------------------------------------|-------|----|
| Ratings per                                   |  | IEC/EN 60947-7-1                                                                                    |       |    |
| Overvoltage category                          |  | III                                                                                                 | III   | II |
| Pollution degree                              |  | 3                                                                                                   | 2     | 2  |
| Nominal voltage                               |  | 800 V                                                                                               | -     | -  |
| Rated surge voltage                           |  | 8 kV                                                                                                | -     | -  |
| Rated current                                 |  | 13.5 A                                                                                              | -     | -  |
| Current at conductor cross-section (max.) mm² |  | 16 A                                                                                                | -     | -  |
| Approvals per                                 |  | UL 1059                                                                                             |       |    |
| Use group                                     |  | B                                                                                                   | C     | D  |
| Rated voltage                                 |  | 600 V                                                                                               | 600 V | -  |
| Rated current                                 |  | 15 A                                                                                                | 15 A  | -  |
| Approvals per                                 |  | CSA 22.2 No 158                                                                                     |       |    |
| Use group                                     |  | B                                                                                                   | C     | D  |
| Rated voltage                                 |  | 600 V                                                                                               | 600 V | -  |
| Rated current                                 |  | 10 A                                                                                                | 10 A  | -  |
| Ex information                                |  | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |       |    |
| Reference hazardous areas                     |  |                                                                                                     |       |    |
| Ratings per                                   |  | ATEX: PTB 11 ATEX 1041 U / IECEx: PTB 11.0093U (Ex eb IIC Gb)                                       |       |    |
| Rated voltage EN (Ex e II)                    |  | 550 V                                                                                               |       |    |
| Rated current (Ex e II)                       |  | 13 A                                                                                                |       |    |
| Rated current (Ex e II) with jumper           |  | 12 A                                                                                                |       |    |



| Power Loss                                                   |           |
|--------------------------------------------------------------|-----------|
| Power loss, per pole (potential)                             | 0.4338 W  |
| Rated current I <sub>N</sub> for specified power loss        | 13.5 A    |
| Resistance value for specified, current-dependent power loss | 0.00238 Ω |

| Connection data               |   |                                                            |                                                                                                                                   |
|-------------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection points             | 4 | <b>Connection 1</b>                                        |                                                                                                                                   |
| Total number of potentials    | 1 | Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Number of levels              | 2 | Actuation type                                             | Operating tool                                                                                                                    |
| Number of jumper slots        | 3 | Connectable conductor materials                            | Copper                                                                                                                            |
| Number of jumper slots (rank) | 2 | 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 insulated ferrule            | 0.14 ... 0.75 mm² / 24 ... 18 AWG                                                                                                 |
|                               |   | Fine-stranded conductor; with ferrule; push-in termination | 0.5 ... 0.75 mm² / 20 ... 18 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                                               | 9 ... 11 mm / 0.35 ... 0.43 inches                                                                                                |
|                               |   | Wiring direction                                           | Front-entry wiring                                                                                                                |

| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 4.2 mm / 0.165 inches  |
| Height                            | 69.7 mm / 2.744 inches |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

| Mechanical data   |                     |
|-------------------|---------------------|
| Potential marking | N                   |
| Mounting type     | DIN-35 rail         |
| Marking level     | Center/side marking |

| Material data               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | blue                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.242 MJ                                                                                                               |
| Weight                      | 10.2 g                                                                                                                 |



| Environmental requirements       |                 |
|----------------------------------|-----------------|
| Processing temperature           | -35 ... +85 °C  |
| Continuous operating temperature | -60 ... +105 °C |

| Commercial data       |               |
|-----------------------|---------------|
| Product Group         | 22 (TOPJOB S) |
| eCl@ss 10.0           | 27-14-11-20   |
| eCl@ss 9.0            | 27-14-11-20   |
| ETIM 8.0              | EC000897      |
| ETIM 7.0              | EC000897      |
| PU (SPU)              | 50 pcs        |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4050821037729 |
| Customs tariff number | 85369010000   |

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

Approvals / Certificates

| General approvals                       |          |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|-----------------------------------------|----------|------------------|------------------------------------------------------------|----------|------------------|
|                                         |          |                  |                                                            |          |                  |
| Approval                                | Standard | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60947 | NTR NL 7962      | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60947 | 71-125928        | Railway<br>WAGO GmbH & Co. KG                              | -        | Railway Ready    |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059  | E45172           | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |

Approvals for hazardous areas

| Approval                                    | Standard       | Certificate Name                            |
|---------------------------------------------|----------------|---------------------------------------------|
| AEx<br>Underwriters Laboratories<br>Inc.    | UL 60079       | E185892 (AEx eb IIC resp.<br>Ex eb IIC)     |
| EAC<br>Brjansker Zertifizierungs-<br>stelle | TP TC 012/2011 | RU C-DE.AM02.<br>B.00127/19 (Ex e IIC Gb U) |



|                                                       |  |
|-------------------------------------------------------|--|
| Downloads                                             |  |
| Environmental Product Compliance                      |  |
| Compliance Search                                     |  |
| Environmental Product Compliance<br>2000-2239/099-000 |  |

|                        |                   |                                 |                      |
|------------------------|-------------------|---------------------------------|----------------------|
| Documentation          |                   |                                 |                      |
| Additional Information |                   | Bid Text                        |                      |
| Technical Section      | pdf<br>2240.62 KB | 2000-2239/099-000<br>19.02.2019 | xml<br>3.95 KB<br>   |
|                        |                   | 2000-2239/099-000<br>07.08.2018 | docx<br>14.78 KB<br> |

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| CAD/CAE-Data                          |                                            |
| CAD data                              | CAE data                                   |
| 2D/3D Models<br>2000-2239/099-000<br> | EPLAN Data Portal<br>2000-2239/099-000<br> |
|                                       | WSCAD Universe<br>2000-2239/099-000<br>    |
|                                       | ZUKEN Portal<br>2000-2239/099-000<br>      |

|                              |
|------------------------------|
| 1 Compatible Products        |
| 1.1 Optional Accessories     |
| 1.1.1 DIN-rail               |
| 1.1.1.1 Mounting accessories |

|                                                                                                                                        |                                                                                                                                                      |                                                                                                                                                      |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                        |                                                                                                                                                      |                                                                                                                                                      |                                                                                                                                     |
| <b>Item No.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored | <b>Item No.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored                | <b>Item No.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored                     | <b>Item No.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored  |
|                                                                                                                                        |                                                                                                                                                      |                                                                                                                                                      |                                                                                                                                     |
| <b>Item No.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored   | <b>Item No.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 18 mm; silver-colored | <b>Item No.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; according to EN 60715; "Hole width 25 mm; silver-colored | <b>Item No.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored |



1.1.2 Ferrule

1.1.2.1 Ferrule



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

1.1.3 Installation

1.1.3.1 Cover



**Item No.: 709-156**  
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.1.3.2 Cover carrier



**Item No.: 709-169**  
Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.1.4 Jumper

1.1.4.1 Jumper



**Item No.: 2001-406/020-000**  
Delta jumper; insulated; light gray



**Item No.: 2001-410**  
Jumper; 10-way; insulated; light gray



**Item No.: 2001-402**  
Jumper; 2-way; insulated; light gray



**Item No.: 2001-403**  
Jumper; 3-way; insulated; light gray



**Item No.: 2001-404**  
Jumper; 4-way; insulated; light gray



**Item No.: 2001-405**  
Jumper; 5-way; insulated; light gray



**Item No.: 2001-406**  
Jumper; 6-way; insulated; light gray



**Item No.: 2001-407**  
Jumper; 7-way; insulated; light gray



**Item No.: 2001-408**  
Jumper; 8-way; insulated; light gray



**Item No.: 2001-409**  
Jumper; 9-way; insulated; light gray



**Item No.: 2001-440**  
Jumper; from 1 to 10; insulated; light gray



**Item No.: 2001-433**  
Jumper; from 1 to 3; insulated; light gray



**Item No.: 2001-434**  
Jumper; from 1 to 4; insulated; light gray



**Item No.: 2001-435**  
Jumper; from 1 to 5; insulated; light gray



**Item No.: 2001-436**  
Jumper; from 1 to 6; insulated; light gray



**Item No.: 2001-437**  
Jumper; from 1 to 7; insulated; light gray



**Item No.: 2001-438**  
Jumper; from 1 to 8; insulated; light gray



**Item No.: 2001-439**  
Jumper; from 1 to 9; insulated; light gray



**Item No.: 2001-405/011-000**  
Star point jumper; 3-way; insulated; light gray



**Item No.: 210-103**  
Wire commoning chain; insulated; black



**Item No.: 210-123**  
Wire commoning chain; insulated; blue



1.1.5 Marking

1.1.5.1 Marker



**Item No.: 793-4501/000-006**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue



**Item No.: 793-4501/000-014**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; brown



**Item No.: 793-4501/000-007**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; gray



**Item No.: 793-4501/000-023**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; green



**Item No.: 793-4501/000-017**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; light green



**Item No.: 793-4501/000-012**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; orange



**Item No.: 793-4501/000-005**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; red



**Item No.: 793-4501/000-024**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; violet



**Item No.: 793-4501**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white



**Item No.: 793-4501/000-002**  
WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; yellow



**Item No.: 2009-114/000-006**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; blue



**Item No.: 2009-114/000-007**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; gray



**Item No.: 2009-114/000-023**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; green



**Item No.: 2009-114/000-012**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; orange



**Item No.: 2009-114/000-005**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; red



**Item No.: 2009-114/000-024**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; violet



**Item No.: 2009-114**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; white



**Item No.: 2009-114/000-002**  
WMB-Inline; for Smart Printer; 2000 pieces on roll; stretchable 4 - 4.2 mm; plain; snap-on type; yellow

1.1.5.2 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.6 Protective warning marker

1.1.6.1 Cover



**Item No.: 2001-115**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.1.7 Push-in type wire jumper

1.1.7.1 Jumper



**Item No.: 2009-404**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; gray



**Item No.: 2009-406**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray



**Item No.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

1.1.8 Screwless end stop

1.1.8.1 Mounting accessories



**Item No.: 249-117**  
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



**Item No.: 249-116**  
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.9 Test and measurement

1.1.9.1 Testing accessories



**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<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.1.10 Tool

1.1.10.1 Operating tool



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



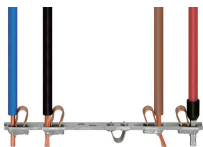
**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



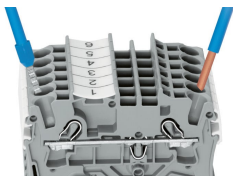
**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

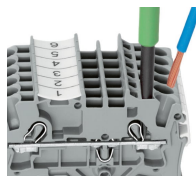
Conductor termination



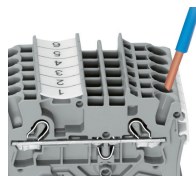
All conductor types at a glance



Push-in termination of solid and ferruled conductors

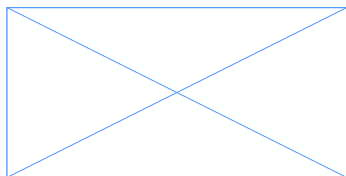


**Inserting a conductor via operating tool:**  
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.  
**Advantage:**  
To open the clamp, the operating tool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



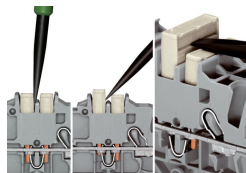
**Inserting a conductor via push-in termination:**  
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

## Conductor termination



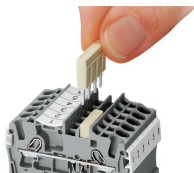
Conductor termination – insulation stop

## Commoning



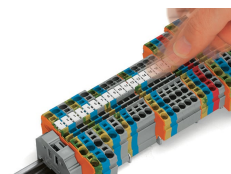
### Removing a push-in type jumper bar:

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.

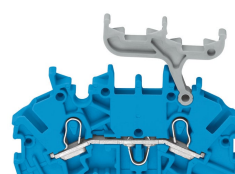
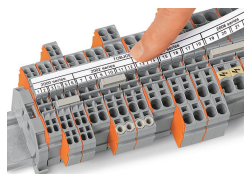


Insert push-in type jumper bar and push down until it hits backstop.

## Marking



Snapping WMB Inline markers into marker slots.



### Double-Deck Terminal Blocks

A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.