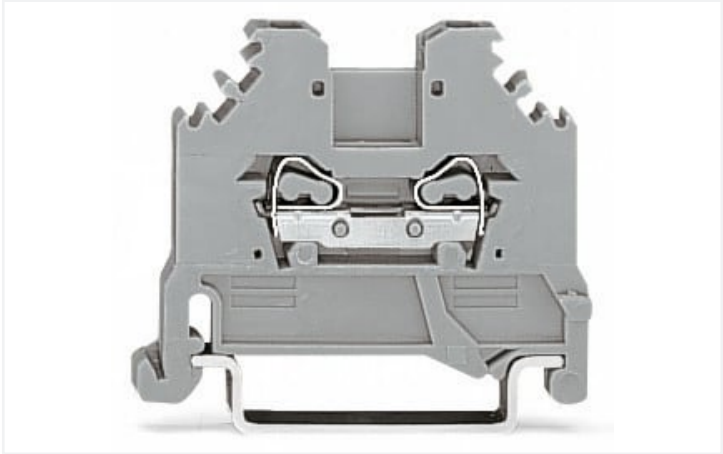
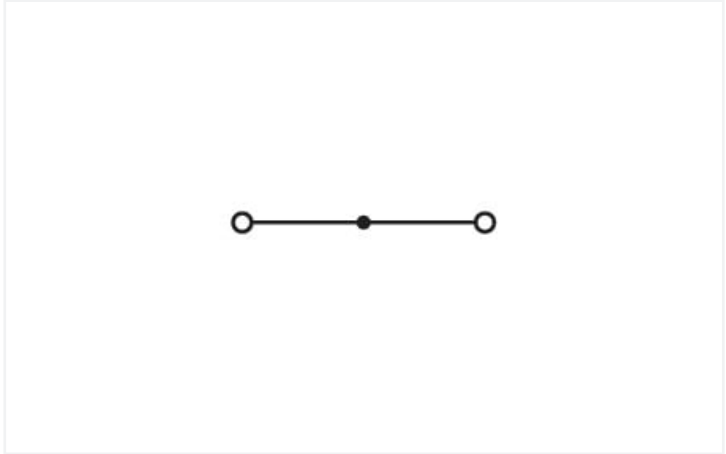




Color: ■ blue

Similar to illustration



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                                                |  | 18 A             | -     | -  |
| Approvals per                                                |  | UL 1059          |       |    |
| Use group                                                    |  | B                | C     | D  |
| Rated voltage                                                |  | -                | 600 V | -  |
| Rated current                                                |  | -                | 10 A  | -  |
| Approvals per                                                |  | CSA 22.2 No 158  |       |    |
| Use group                                                    |  | B                | C     | D  |
| Rated voltage                                                |  | -                | 600 V | -  |
| Rated current                                                |  | -                | 10 A  | -  |
| Power Loss                                                   |  |                  |       |    |
| Power loss, per pole (potential)                             |  | 0.5929 W         |       |    |
| Rated current I <sub>N</sub> for specified power loss        |  | 18 A             |       |    |
| Resistance value for specified, current-dependent power loss |  | 0.00183 Ω        |       |    |

| Connection data                 |                                              |  |
|---------------------------------|----------------------------------------------|--|
| Connection points               | 2                                            |  |
| Total number of potentials      | 1                                            |  |
| Number of levels                | 1                                            |  |
| Connection 1                    |                                              |  |
| Connection technology           | CAGE CLAMP®                                  |  |
| Actuation type                  | Operating tool                               |  |
| Connectable conductor materials | Copper                                       |  |
| Solid conductor                 | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG |  |
| Fine-stranded conductor         | 0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG |  |
| Strip length                    | 8 ... 9 mm / 0.31 ... 0.35 inches            |  |
| Wiring direction                | Side-entry wiring                            |  |



| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 4 mm / 0.157 inches    |
| Height                            | 42.5 mm / 1.673 inches |
| Depth from upper-edge of DIN-rail | 30.5 mm / 1.201 inches |

| Mechanical data |              |
|-----------------|--------------|
| Mounting type   | DIN-35 rail  |
| Marking level   | 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                   | 0.069 MJ                                                                                                               |
| Weight                      | 3.2 g                                                                                                                  |

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

| Commercial data       |                                  |
|-----------------------|----------------------------------|
| Product Group         | 1 (Rail Mounted Terminal Blocks) |
| 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)              | 100 pcs                          |
| Packaging type        | Box                              |
| Country of origin     | IN                               |
| GTIN                  | 4045454026455                    |
| Customs tariff number | 85369010000                      |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                          |  | General approvals                 |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|----------------|
|    |  | UL Underwriters Laboratories Inc. | UL 1059 E45172 |

| Approval                              | Standard      | Certificate Name |
|---------------------------------------|---------------|------------------|
| CCA<br>DEKRA Certification B.V.       | EN 60947      | NTR NL-7081      |
| CSA<br>DEKRA Certification B.V.       | C22.2 No. 158 | 70133738         |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947      | 2160584.04       |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications

|     |          |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| Approval                                                                                                                                                                                                                                                                                                                                     | Standard | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping                                                                                                                                                                                                                                                                                                      | -        | 20-HG1941090-PDA |
| BV<br>Bureau Veritas S.A.                                                                                                                                                                                                                                                                                                                    | EN 60947 | 07436/F0 BV      |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                                                                                                                                                                                                                                                                                        | -        | TAE00001V2       |
| LR<br>Lloyds Register                                                                                                                                                                                                                                                                                                                        | EN 60947 | 91/20112 (E9)    |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 279-104 |

Documentation

| Additional Information | Bid Text          |
|------------------------|-------------------|
| Technical Section      | pdf<br>2240.62 KB |
|                        | 279-104           |
|                        | 19.02.2019        |
|                        | xml<br>3.24 KB    |
|                        | 279-104           |
|                        | 31.05.2017        |
|                        | doc<br>23.50 KB   |

CAD/CAE-Data

| CAD data             | CAE data                     |
|----------------------|------------------------------|
| 2D/3D Models 279-104 | EPLAN Data Portal<br>279-104 |
|                      | WSCAD Universe<br>279-104    |
|                      | ZUKEN Portal 279-104         |



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



**Item No.: 280-301**  
End and intermediate plate; 2.5 mm thick; gray



**Item No.: 280-302**  
End and intermediate plate; 2.5 mm thick; orange



**Item No.: 280-332**  
Separator plate; 2 mm thick; oversized; gray



**Item No.: 280-322**  
Separator plate; 2 mm thick; oversized; orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



**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.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



**Item No.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; 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; silver-colored



**Item No.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



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



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



**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; silver-colored



**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; silver-colored



**Item No.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



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



**Item No.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.2.2 End plate

1.2.2.1 End plate



**Item No.: 281-333**  
Step-down intermediate plate; 1 mm thick; "only for 4 mm terminal blocks; gray

1.2.3 Ferrule

1.2.3.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-201**  
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-101**  
Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated

1.2.4 Installation

1.2.4.1 Cover



**Item No.: 709-153**  
Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

1.2.4.2 Cover carrier



**Item No.: 709-167**  
Cover carrier; Type 1; 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

1.2.4.3 Mounting accessories



**Item No.: 209-106**  
Mounting carrier; for isolated mounting on DIN 35 rails; gray



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

1.2.5 Jumper

1.2.5.1 Jumper



**Item No.: 279-402**  
Jumper; insulated; gray



**Item No.: 279-409**  
Jumper; insulated; gray



**Item No.: 279-422**  
Jumper; insulated; yellow-green



**Item No.: 284-414**  
Step-down jumper; from 284/282 to 281/280/279 series; insulated; gray

1.2.6 Marking

1.2.6.1 Group marker carrier



**Item No.: 209-140**  
Group marker carrier; gray



**Item No.: 209-141**  
Group marker carrier; gray



**Item No.: 209-142**  
Group marker carrier; gray



**Item No.: 249-105**  
Group marker carrier; gray

1.2.6.2 Marker



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



**Item No.: 793-4501/000-007**  
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

1.2.6.2 Marker



**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

1.2.7 Protective warning marker

1.2.7.1 Cover



**Item No.: 279-405**  
Protective warning marker; 5-pole; with high-voltage symbol, black; yellow

1.2.8 Push-in type wire jumper

1.2.8.1 Jumper



**Item No.: 249-126**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; black



**Item No.: 249-123**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 180 mm long; black



**Item No.: 249-127**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; black



**Item No.: 249-125**  
Push-in type wire jumper; insulated; 60 mm long; black

1.2.9 Test and measurement

1.2.9.1 Testing accessories



**Item No.: 280-404**  
Test plug adapter; 5 mm wide; for test plug (2.3 mm Ø); suitable for 1.5 mm<sup>2</sup> - 4 mm<sup>2</sup> tbs; gray



**Item No.: 209-170**  
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm<sup>2</sup> - 10 mm<sup>2</sup> tbs; gray

## 1.2.10 Tool

### 1.2.10.1 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

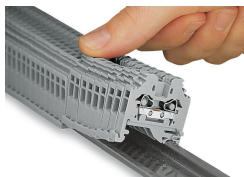


#### Item No.: 210-647

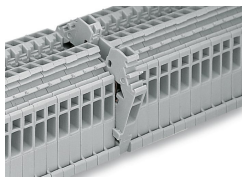
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

## Installation Notes

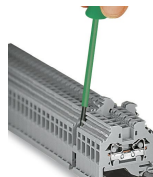
### Installation



Snapping side-entry rail-mount terminal blocks onto the DIN-rail.

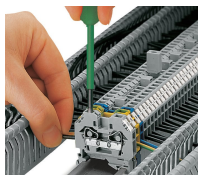


Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.

## Conductor termination



### CAGE CLAMP® connection

Inserting a conductor.

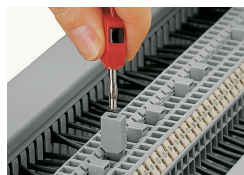
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross-section.

## Commoning

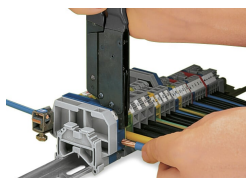


Commoning using an adjacent jumper (280-402). Push jumper down until fully inserted.

## Testing



Testing with a test plug. Picture shows a test plug adapter (209-170).



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.

## Marking



Labeling via WMB Multi Marking System.