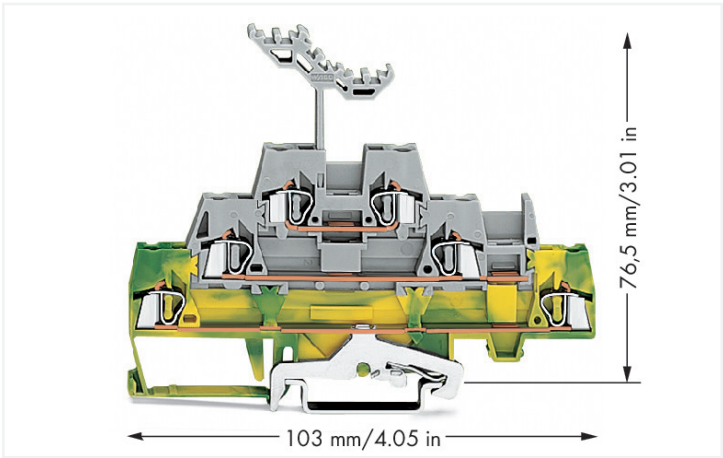


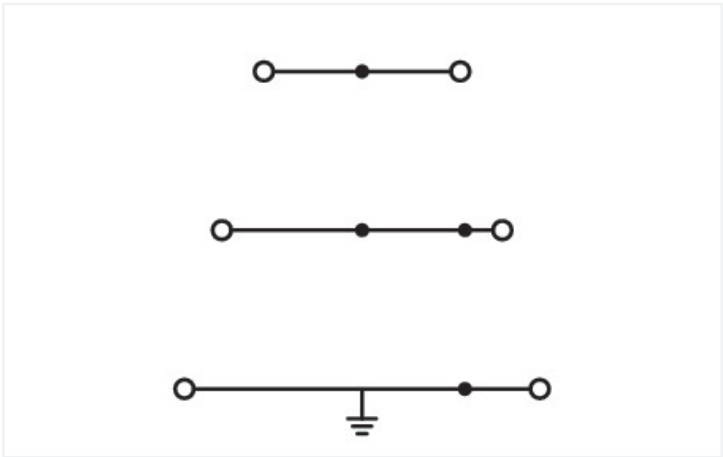
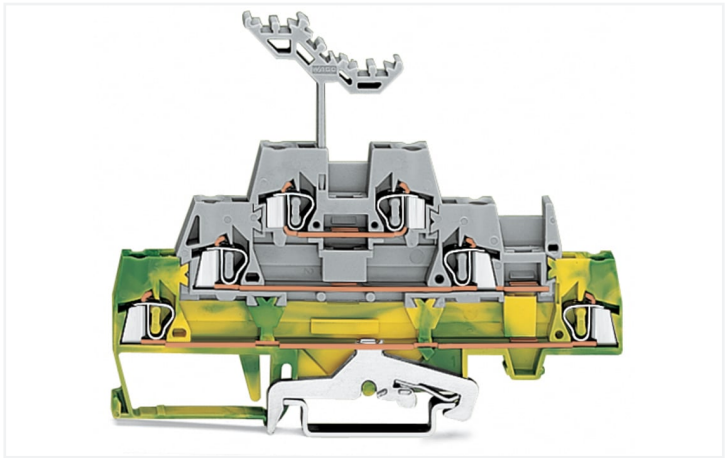
Data Sheet | Item Number: 280-557

Triple-deck terminal block; Shield/through/through terminal block; 2.5 mm²; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm²; green-yellow/gray/gray

<https://www.wago.com/280-557>



Color: ■ green-yellow/gray/gray



Similar to illustration

Triple-deck terminal block, 280 Series, green-yellow/gray/gray

Our triple-deck terminal block (item number 280-557) is designed for seamless electrical installations. The triple-deck terminal block also functions as a through terminal block as well as a ground terminal block. Conductors can only be connected to this triple-deck terminal block if their strip length is between 8 mm and 9 mm. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a reliable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. This triple-deck terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has three levels. Three potentials can connect using the six clamping points. The green-yellow/gray housing is made of polyamide (PA66) for insulation. These through rail-mount terminal blocks are mounted using DIN-35 rails.

| Electrical data | | | | |
|--|-------|------------------|----|--|
| Ratings per | | IEC/EN 60947-7-1 | | |
| Overvoltage category | III | III | II | |
| Pollution degree | 3 | 2 | 2 | |
| Nominal voltage | 500 V | - | - | |
| Rated surge voltage | 6 kV | - | - | |
| Rated current | 20 A | - | - | |
| | | Power Loss | | |
| Power loss, per pole (potential) | | 1.064 W | | |
| Rated current I _N for specified power loss | | 20 A | | |
| Resistance value for specified, current-dependent power loss | | 0.00133 Ω | | |



| Connection data | | |
|--|--|--|
| Clamping units | 6 | |
| Total number of potentials | 3 | |
| Number of levels | 3 | |
| Connection 1 | | |
| Connection technology | CAGE CLAMP® | |
| Actuation type | Operating tool | |
| Connectable conductor materials | Copper Aluminum | |
| Connectable conductor materials (note) | <p>Terminating Aluminum Conductors WAGO Spring-Clamp Terminal Blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination.</p> <p>"Alu-Plus" Contact Paste Advantages:</p> <ul style="list-style-type: none">• Automatically destroys the oxide film during clamping.• Prevents fresh oxidation at the clamping point.• Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).• Provides long-term protection against corrosion. <p>Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, aluminum conductors must first be cleaned with a blade and then immediately inserted into the clamping units filled with "Alu-Plus" contact paste.</p> <p>It is also possible to apply WAGO "Alu-Plus" additionally on the whole surface of the aluminum conductor before termination.</p> <p>Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:: 2.5 mm² = 16 A 4 mm² = 22 A</p> | |
| Solid conductor | 0.08 ... 2.5 mm² / 28 ... 12 AWG | |
| Fine-stranded conductor | 0.08 ... 2.5 mm² / 28 ... 12 AWG | |
| Note (conductor cross-section) | 12 AWG: THHN, THWN | |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches | |
| Wiring direction | Front-entry wiring | |

| Physical data | |
|-----------------------------------|------------------------|
| Width | 5 mm / 0.197 inches |
| Height | 103 mm / 4.055 inches |
| Depth from upper-edge of DIN-rail | 76.5 mm / 3.012 inches |

| Mechanical data | |
|-----------------|-----------------|
| Design | horizontal type |
| Mounting type | DIN-35 rail |
| Marking level | Center marking |



| Material data | |
|------------------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | green-yellow/gray/gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.305 MJ |
| Weight | 21.9 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 | 27-14-11-41 |
| eCl@ss 9.0 | 27-14-11-41 |
| ETIM 9.0 | EC000901 |
| ETIM 8.0 | EC000901 |
| PU (SPU) | 40 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4050821293750 |
| Customs tariff number | 85369010000 |

| Environmental Product Compliance | |
|---|--------------------------------------|
| CAS-No. | 7439-92-1 |
| REACH Candidate List Substance | Lead |
| RoHS Compliance Status | Compliant,No Exemption |
| SCIP notification number (Austria) | d358ba2c-1b56-4409-afe1-f06bc403c728 |
| SCIP notification number (Belgium) | cce58ae3-49e6-4b42-be15-063e2f1cef1d |
| SCIP notification number (Bulgaria) | 33f892ab-c46e-49d8-8a1f-9fbca5dbb47f |
| SCIP notification number (Czech Republic) | 6025b5be-d225-4198-aa28-e8eeafdf9e6a |
| SCIP notification number (Denmark) | 4a16a667-e566-4915-a762-4c045b7490c6 |
| SCIP notification number (Finland) | fbaa4f9c-8a3b-4d53-9e2d-f7813343f940 |
| SCIP notification number (France) | 49e33641-bdd4-4543-b4f8-d5a9b3cfde89 |
| SCIP notification number (Germany) | 9d090dc0-1041-4b1b-be06-d2ab59bec90b |
| SCIP notification number (Hungary) | ddd49712-cda8-43ba-9abd-0583d2d434b3 |
| SCIP notification number (Italy) | 60c9ca20-cbe4-40b1-9dd7-edc3fd53d772 |
| SCIP notification number (Netherlands) | 3838e0b1-13c9-41c9-835a-9371013452da |
| SCIP notification number (Poland) | 1ae5b8f4-b97c-4736-876a-c72c2bb59b4f |
| SCIP notification number (Romania) | b5a1e27a-f2ce-4b07-8821-00abd4a0ca23 |
| SCIP notification number (Sweden) | 5cd2b754-c7a6-461a-9e6b-634b858ead0d |



Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|--------------------------------------|----------|------------------|
| CCA DEKRA Certification B.V. | EN 60947 | 2157201.01 |
| CSA DEKRA Certification B.V. | C22.2 | 1536071 |
| UR Underwriters Laboratories Inc. | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|----------|------------------|
| ABS American Bureau of Ship- ping | EN 60947 | 20-HG1941090-PDA |
| BV Bureau Veritas S.A. | EN 60947 | 07436/F0 BV |
| DNV GL Det Norske Veritas, Ger- manischer Lloyd | - | TAE00001V2 |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 280-557



Documentation

Additional Information

| | | |
|-------------------|-------------------|--|
| Technical Section | pdf 2246.92 KB | |
|-------------------|-------------------|--|

Bid Text

| | | | |
|---------|------------|-----------------|--|
| 280-557 | 19.02.2019 | xml 3.37 KB | |
| 280-557 | 02.03.2017 | doc 24.50 KB | |



| CAD/CAE-Data | |
|--|---|
| <div>CAD data</div> <div>2D/3D Models 280-557</div> <div>↓</div> | <div>CAE data</div> <div>EPLAN Data Portal 280-557</div> <div>↓</div> |
| | <div>WSCAD Universe 280-557</div> <div>↓</div> |
| | <div>ZUKEN Portal 280-557</div> <div>↓</div> |

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



[Item No.: 280-303](#)
End and intermediate plate; 2.5 mm thick; gray



[Item No.: 280-304](#)
End and intermediate plate; 2.5 mm thick; orange



[Item No.: 280-336](#)
Intermediate plate; 1.1 mm thick; 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; unslopped; similar to EN 60715; silver-colored



[Item No.: 210-198](#)
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored



[Item No.: 210-508](#)
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; 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; slopped; similar to EN 60715; silver-colored



[Item No.: 210-506](#)
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; 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; unslopped; similar to EN 60715; silver-colored



[Item No.: 210-118](#)
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored



[Item No.: 210-115](#)
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



[Item No.: 210-112](#)
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



[Item No.: 210-504](#)
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; 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; unslopped; according to EN 60715; silver-colored



[Item No.: 210-505](#)
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; according to EN 60715; silver-colored



1.2.2 Ferrule

1.2.2.1 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; electrolytic copper; acc. to DIN 46228, Part 4/09.90; 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



Item No.: 216-204
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-104
Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored

1.2.3 Installation

1.2.3.1 Cover



Item No.: 709-154
Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.3.2 Cover carrier



Item No.: 709-168
Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOP-JOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

1.2.3.3 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

1.2.4 Insulation stop

1.2.4.1 Insulation stop



Item No.: 280-470
Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white



Item No.: 280-471
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray



Item No.: 280-472
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; black

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 280-490
Jumper; 10-way; insulated; gray



Item No.: 280-482
Jumper; 2-way; insulated; gray



Item No.: 280-492
Jumper; 2-way; insulated; gray



Item No.: 280-483
Jumper; 3-way; insulated; gray



Item No.: 280-484
Jumper; 4-way; insulated; gray



Item No.: 280-485
Jumper; 5-way; insulated; gray



Item No.: 280-402
Jumper; insulated; gray



Item No.: 280-409
Jumper; insulated; gray



Item No.: 780-452
Staggered jumper; from 1 to 2; insulated; gray



Item No.: 780-453
Staggered jumper; from 1 to 3; insulated; gray



Item No.: 780-454
Staggered jumper; from 1 to 4; insulated; gray



Item No.: 780-455
Staggered jumper; from 1 to 5; insulated; gray



Item No.: 780-456
Staggered jumper; from 1 to 6; insulated; gray



Item No.: 780-457
Staggered jumper; from 1 to 7; insulated; gray



Item No.: 780-458
Staggered jumper; from 1 to 8; insulated; gray



Item No.: 281-421
Vertical jumper; insulated; gray



Item No.: 709-110
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-111
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 709-112
Wire commoning chain; 2.5 mm²; insulated; black



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



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

1.2.6 Marking

1.2.6.1 Marker



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



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



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.2.7 Protective warning marker

1.2.7.1 Cover



Item No.: 280-415
Protective warning marker; for 5 terminal blocks; 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 mm²; insulated; 110 mm long; black



Item No.: 249-123
Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black



Item No.: 249-127
Push-in type wire jumper; 0.75 mm²; 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.: 249-142
L-type end module; modular; with rigid contact pin; End module; 1,50 mm²; gray



Item No.: 249-141
L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 mm²; gray

1.2.10 Tool

1.2.10.1 Operating tool



Item No.: 210-658
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured



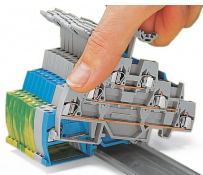
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



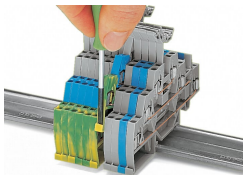
Item No.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

Installation

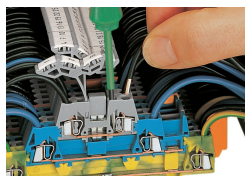


Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.

Conductor termination

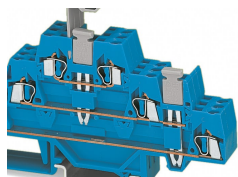


CAGE CLAMP® connection

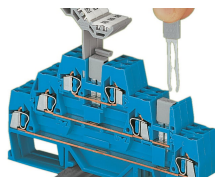
Inserting a conductor.

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

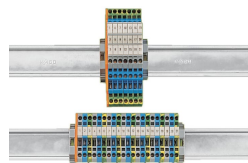
Commoning



A vertical jumper commons the upper and lower decks, creating a 6-conductor feed-through terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same deck using a push-in adjacent jumper.



Combining vertical and adjacent jumpers.



Use 67% less rail space with triple-deck terminal blocks.

Marking



Labeling via WMB Multi Marking System.