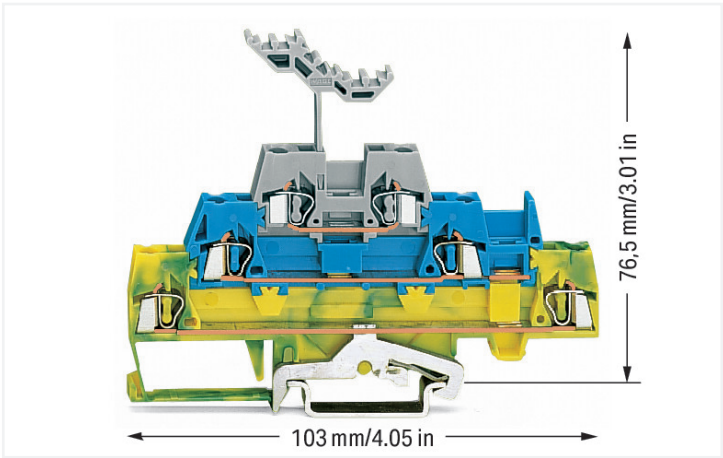


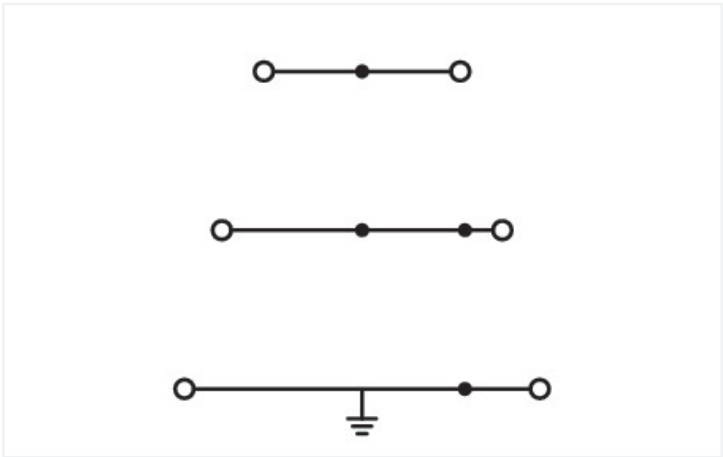
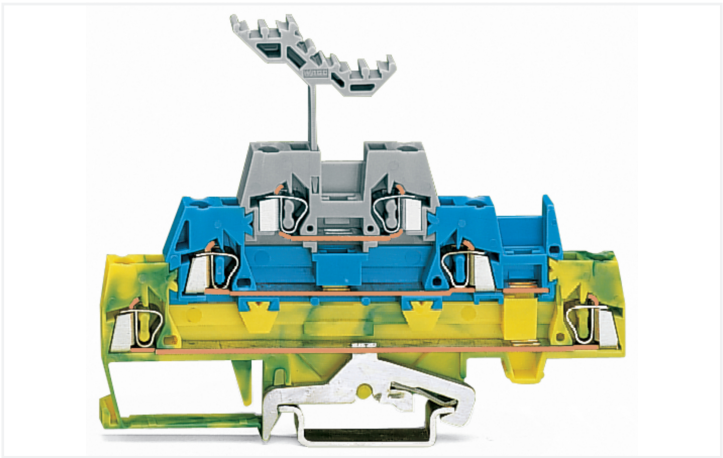
Data Sheet | Item Number: 280-547

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/blue/gray

<https://www.wago.com/280-547>



Color: green-yellow/blue/gray



Similar to illustration

Triple-deck terminal block, 280 Series, CAGE CLAMP®

This triple-deck terminal block (item number 280-547) simplifies electrical installations. The triple-deck terminal block also functions as a through terminal block as well as a ground terminal block. Conductors should only be connected to this triple-deck terminal block if their strip length is between 8 mm and 9 mm. Featuring conductor terminals along with CAGE CLAMP®, this product outperforms the competition. Our highly-rated and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. Depending on the type of conductor, this triple-deck terminal block is ideal for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It features three levels and six clamping points that you can use to connect three potentials. The green-yellow/blue 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 <sub>N</sub> 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<br>Aluminum   |  |
| Connectable conductor materials (note) | <p><b>Terminating Aluminum Conductors</b><br/>WAGO Spring-Clamp Terminal Blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste <a href="#">249-130</a> is used for termination.</p> <p>"Alu-Plus" Contact Paste Advantages:</p> <ul style="list-style-type: none"><li>• Automatically destroys the oxide film during clamping.</li><li>• Prevents fresh oxidation at the clamping point.</li><li>• Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).</li><li>• Provides long-term protection against corrosion.</li></ul> <p>Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, <b>aluminum conductors must first be cleaned with a blade</b> 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" <b>additionally</b> 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::<br/>2.5 mm² = 16 A<br/>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)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | green-yellow/blue/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                  | 4050821293712                    |
| 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)        | e407601c-dadd-42a4-86ef-dbe1865d7a29 |
| SCIP notification number (Belgium)        | a631be4b-c8fe-4271-86ff-dacb76e8c394 |
| SCIP notification number (Bulgaria)       | a2553e0b-20e7-42d1-8cd1-9f9011c6cc0d |
| SCIP notification number (Czech Republic) | e73785c8-fe6b-4d0a-9552-4fb7e993357a |
| SCIP notification number (Denmark)        | 5860c2f2-1710-4280-8ab6-938e82e9de04 |
| SCIP notification number (Finland)        | ae54751c-f490-4840-946f-2828ecc1c985 |
| SCIP notification number (France)         | c1d16e17-6f74-4cda-b7df-babff4d398bd |
| SCIP notification number (Germany)        | f4d1c319-ec5a-4e03-af77-e7f34f5c4418 |
| SCIP notification number (Hungary)        | 7277f91a-1e72-45c6-bde1-7e205c21d380 |
| SCIP notification number (Italy)          | e7b3ceb8-c490-4d58-803c-6d3e3da61b5b |
| SCIP notification number (Netherlands)    | 7e9d1298-20b4-44fe-af73-c677e69484bf |
| SCIP notification number (Poland)         | d59a4280-17f2-42fc-8706-20d5a4e3e184 |
| SCIP notification number (Romania)        | 3c7cf509-abfc-4c63-a84b-4de1e57033e7 |
| SCIP notification number (Sweden)         | 6f42386a-f684-4fa3-8e81-3a94cb1a15e1 |



Approvals / Certificates

General approvals



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

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               | EN 60947 | 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       |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product  
Compliance 280-547



Documentation





Additional Information

|                   |                   |  |
|-------------------|-------------------|--|
| Technical Section | pdf<br>2246.92 KB |  |
|-------------------|-------------------|--|

Bid Text

|         |            |                 |  |
|---------|------------|-----------------|--|
| 280-547 | 19.02.2019 | xml<br>3.37 KB  |  |
| 280-547 | 02.03.2017 | doc<br>24.50 KB |  |



| CAD/CAE-Data   |   |
|--|---|
| CAD data   | CAE data  |
| 2D/3D Models 280-547  | EPLAN Data Portal 280-547  |
|  | WSCAD Universe 280-547     |
|  | ZUKEN Portal 280-547       |

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


|  |   |  |  |
|--|---|--|--|
|   |    |   |   |
| <div><div>Item No.: 216-301</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</div></div> | <div><div>Item No.: 216-302</div><div>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</div></div>   | <div><div>Item No.: 216-201</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white</div></div> | <div><div>Item No.: 216-101</div><div>Ferrule; Sleeve for 0.5 mm² / AWG 22; un-insulated; electro-tin plated; silver-colored</div></div> |
|   |    |   |   |
| <div><div>Item No.: 216-202</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</div></div>   | <div><div>Item No.: 216-102</div><div>Ferrule; Sleeve for 0.75 mm² / AWG 20; un-insulated; electro-tin plated; silver-colored</div></div> | <div><div>Item No.: 216-203</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red</div></div>   | <div><div>Item No.: 216-103</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated</div></div>                   |
|   |    |  |  |
| <div><div>Item No.: 216-204</div><div>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black</div></div>   | <div><div>Item No.: 216-104</div><div>Ferrule; Sleeve for 1.5 mm² / AWG 16; un-insulated; electro-tin plated; silver-colored</div></div>  |  |  |

1.2.3 Installation



1.2.3.1 Cover

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

1.2.3.2 Cover carrier

|  |
|--|
|   |
| <div><div>Item No.: 709-168</div><div>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</div></div> |

1.2.3.3 Mounting accessories

|   |  |
|---|--|
|                              |                                       |
| <div><div>Item No.: 209-106</div><div>Mounting carrier; for isolated mounting on DIN 35 rails; gray</div></div> | <div><div>Item No.: 249-116</div><div>Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray</div></div> |

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 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.: 249-142**  
L-type end module; modular; with rigid contact pin; End module; 1,50 mm<sup>2</sup>; gray



**Item No.: 249-141**  
L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 mm<sup>2</sup>; 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



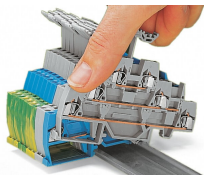
**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



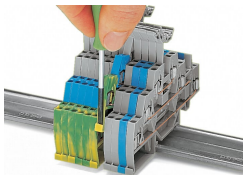
**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

Installation



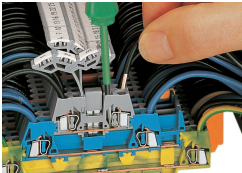
Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.

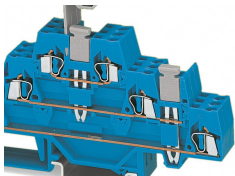


Conductor termination

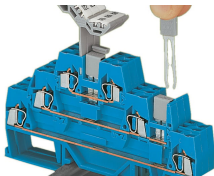


**CAGE CLAMP® connection**  
Inserting a conductor.  
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

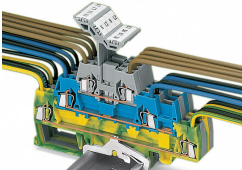
Commoning



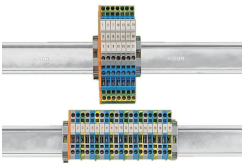
A vertical jumper commons the upper and lower decks, creating a 6-conductor feed-through terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same deck using a push-in adjacent jumper.



Combining vertical and adjacent jumpers.



Three-conductor power circuit with additional branch circuit tapping



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

Marking



Labeling via WMB Multi Marking System.