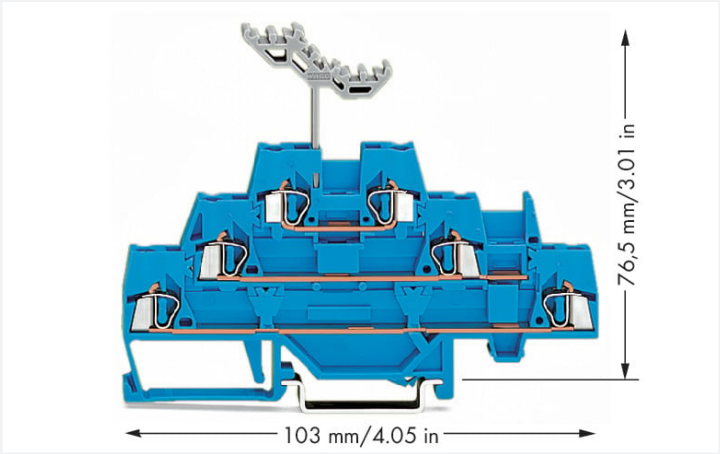
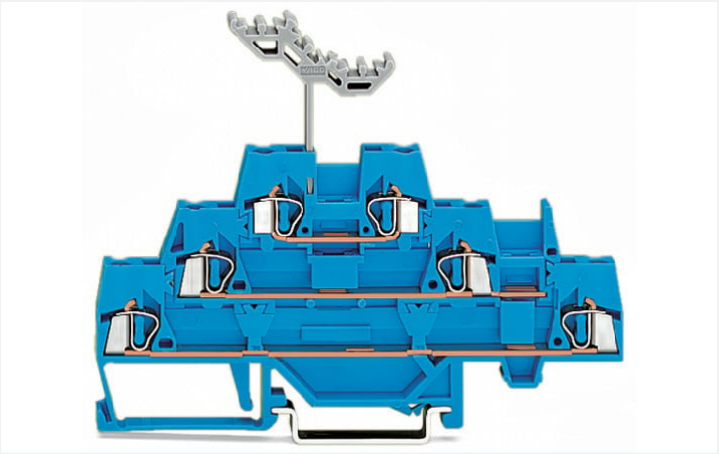
# Data Sheet | Item Number: 280-551

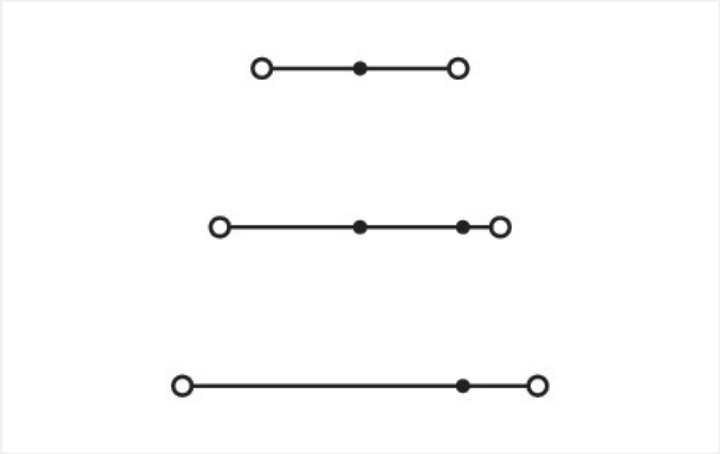
Triple-deck terminal block; Through/through/through terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP®; 2,50 mm²; blue/blue/blue

https://www.wago.com/280-551



Color: blue/blue/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 | 500 V | - | - |
| Rated surge voltage | 6 kV | - | - |
| Rated current | 20 A | - | - |

| Power Loss | |
|---|---|
| Power loss, per pole (potential) | 0.532 W |
| Rated current $I_N$ for specified power loss | 20 A |
| Resistance value for specified, current-dependent power loss | 0.00133 Ω |

## Connection data

| | |
|---|---|
| Connection points | 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 |

## Connection 1

| | |
|---|---|
| Connectable conductor materials (note) | **Terminating Aluminum Conductors**<br>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.<br><br>"Alu-Plus" Contact Paste Advantages:<br><br>• Automatically destroys the oxide film during clamping.<br>• Prevents fresh oxidation at the clamping point.<br>• Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).<br>• Provides long-term protection against corrosion.<br><br>Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.<br><br>It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.<br><br>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 |
| 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 | blue/blue/blue |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.252 MJ |
| Weight | 18.3 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) | 40 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4044918543316 |
| Customs tariff number | 85369010000 |

## Environmental Product Compliance

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

## 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 |

### Approvals for marine applications

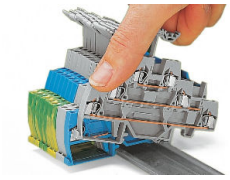
| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | EN 60947 | 20-HG1941090-PDA |
| BV<br>Bureau Veritas S.A. | EN 60947 | 07436/F0 BV |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |
| LR<br>Lloyds Register | EN 60947 | 91/20112 (E9)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

### Declarations of conformity and manufacturer's declarations

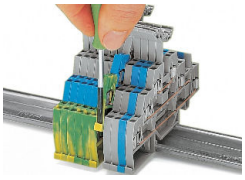
| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

## Installation Notes

## Installation

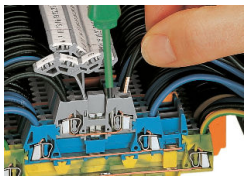


Snapping a terminal block onto the DIN-rail.



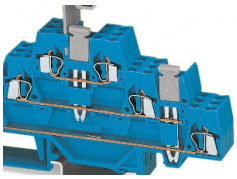
Removing a terminal block from the assembly.

## Conductor termination

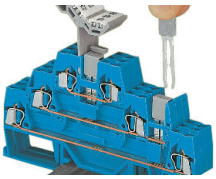


**CAGE CLAMP® connection**
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section.

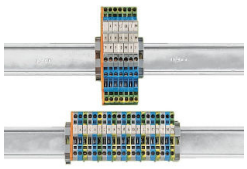
## Commoning



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.