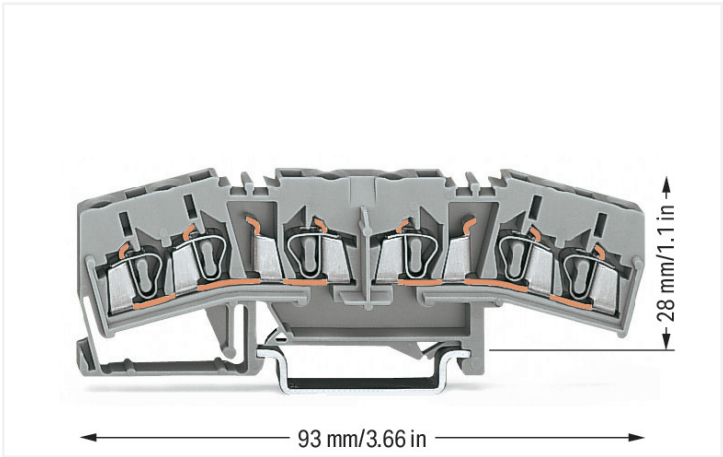




Color: ■ gray



| Notes                |                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------|
| Safety information   | Notice: This 3-conductor double-potential terminal block cannot be commoned via adjacent jumpers.  |
| Safety information 2 | When used as disconnect terminal block or 500V/6kV/3 potential multiplier between the current bars |

| Electrical data               |                                                           |                                                              |           |
|-------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-----------|
| Ratings per IEC/EN            |                                                           | Power Loss                                                   |           |
| Nominal voltage (III/3)       | 800 V                                                     | Power loss, per pole (potential)                             | 0.4309 W  |
| Rated impulse voltage (III/3) | 8 kV                                                      | Rated current I <sub>N</sub> for specified power loss        | 18 A      |
| Rated current                 | 18 A                                                      | Resistance value for specified, current-dependent power loss | 0.00133 Ω |
| Legend (ratings)              | (III / 3) Δ Overvoltage category III / Pollution degree 3 |                                                              |           |

| Connection data            |   |                                 |                    |
|----------------------------|---|---------------------------------|--------------------|
| Connection points          | 6 | Connection 1                    |                    |
| Total number of potentials | 2 | Connection technology           | CAGE CLAMP®        |
| Number of levels           | 1 | Actuation type                  | Operating tool     |
|                            |   | Connectable conductor materials | Copper<br>Aluminum |



Connection 1

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connectable conductor materials (note) | <p><b>Terminating Aluminum Conductors</b></p> <p>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="https://www.wago.com/249-130">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 be 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::</p> <p>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                            | 93 mm / 3.661 inches |
| Depth from upper-edge of DIN-rail | 28 mm / 1.102 inches |

| Mechanical data |                 |
|-----------------|-----------------|
| Design          | horizontal type |
| Mounting type   | DIN-35 rail     |
| Marking level   | Center 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                       | gray                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.237 MJ                                                                                                               |
| Weight                      | 12.4 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)              | 50 pcs                           |
| Packaging type        | Box                              |
| Country of origin     | DE                               |
| GTIN                  | 4044918465069                    |
| Customs tariff number | 85369010000                      |

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

Approvals / Certificates

General approvals



| Approval                                | Standard | Certificate Name |
|-----------------------------------------|----------|------------------|
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059  | E45172           |

Downloads

Environmental Product Compliance

| Compliance Search                           |  |
|---------------------------------------------|--|
| Environmental Product<br>Compliance 280-675 |  |

Documentation

| Additional Information |                   |  |
|------------------------|-------------------|--|
| Technical Section      | pdf<br>2240.62 KB |  |

| Bid Text |            |                  |  |
|----------|------------|------------------|--|
| 280-675  | 19.02.2019 | xml<br>3.58 KB   |  |
| 280-675  | 21.02.2019 | docx<br>15.41 KB |  |



| CAD/CAE-Data                                                     |                                                                       |
|------------------------------------------------------------------|-----------------------------------------------------------------------|
| <div>CAD data</div> <div>2D/3D Models 280-675</div> <div>↓</div> | <div>CAE data</div> <div>EPLAN Data Portal 280-675</div> <div>↓</div> |
|                                                                  | <div>WSCAD Universe 280-675</div> <div>↓</div>                        |
|                                                                  | <div>ZUKEN Portal 280-675</div> <div>↓</div>                          |

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

|                                                                                      |                                                                                        |                                                                                           |                                                                                             |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|     |       |         |          |
| <div>Item No.: 280-325</div> <div>End and intermediate plate; 5 mm thick; gray</div> | <div>Item No.: 280-333</div> <div>End and intermediate plate; 5 mm thick; orange</div> | <div>Item No.: 280-394</div> <div>Separator plate; 1 mm thick; 3 mm oversized; gray</div> | <div>Item No.: 280-395</div> <div>Separator plate; 1 mm thick; 3 mm oversized; orange</div> |

1.2 Optional Accessories

1.2.1 Connector

1.2.1.1 Male connector/plug

|                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                |
| <div>Item No.: 280-473</div> <div>Pin module; 0.8 x 2.4 mm; for assembly on all 280 Series front-entry rail-mounted terminal blocks; for Termi-Point connection; 2-pole; gray</div> | <div>Item No.: 280-475</div> <div>Pin module; 0.8 x 2.4 mm; for assembly on all 280 Series front-entry rail-mounted terminal blocks; for Termi-Point connection; 2-pole; gray</div> | <div>Item No.: 280-474</div> <div>Pin module; 0.8 x 2.4 mm; for assembly on all 280 Series front-entry rail-mounted terminal blocks; for Termi-Point connection; 3-pole; gray</div> | <div>Item No.: 280-476</div> <div>Pin module; 0.8 x 2.4 mm; for assembly on all 280 Series front-entry rail-mounted terminal blocks; for Termi-Point connection; 3-pole; gray</div> |

1.2.2 DIN-rail

1.2.2.1 Mounting accessories

|                                                                                                                                                            |                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                         |                                                                        |                                                                      |                                                                        |
| <div>Item No.: 210-196</div> <div>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</div>         | <div>Item No.: 210-198</div> <div>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored</div>         | <div>Item No.: 210-508</div> <div>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored</div> | <div>Item No.: 210-197</div> <div>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored</div>                |
|                                                                         |                                                                        |                                                                      |                                                                        |
| <div>Item No.: 210-506</div> <div>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored</div> | <div>Item No.: 210-114</div> <div>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored</div>            | <div>Item No.: 210-118</div> <div>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</div>         | <div>Item No.: 210-115</div> <div>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; silver-colored</div>               |
|                                                                         |                                                                        |                                                                      |                                                                        |
| <div>Item No.: 210-112</div> <div>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; silver-colored</div>              | <div>Item No.: 210-504</div> <div>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored</div> | <div>Item No.: 210-113</div> <div>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored</div>          | <div>Item No.: 210-505</div> <div>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored</div> |



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



**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

1.2.4 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.: 249-116**  
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



1.2.5 Insulation stop

1.2.5.1 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

1.2.6 Jumper

1.2.6.1 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.: 280-494](#)  
Jumper; 2-way; insulated; orange



[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.: 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

1.2.7 Marking

1.2.7.1 Group marker carrier



[Item No.: 249-105](#)  
Group marker carrier; gray

1.2.7.2 Marker



[Item No.: 793-5501/000-006](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; blue



[Item No.: 793-5501/000-007](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; gray



[Item No.: 793-5501/000-023](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; green



[Item No.: 793-5501/000-017](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



[Item No.: 793-5501/000-012](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



[Item No.: 793-5501/000-005](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



[Item No.: 793-5501/000-024](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



[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.: 793-5501/000-002](#)  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



[Item No.: 793-501/000-007](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; gray



[Item No.: 793-501/000-023](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; green



[Item No.: 793-501/000-017](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; light green



[Item No.: 793-501/000-012](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; orange



[Item No.: 793-501/000-005](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; red



[Item No.: 793-501/000-024](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; violet



[Item No.: 793-501](#)  
WMB marking card; as card; not stretchable; plain; snap-on type; white



1.2.7.2 Marker



**Item No.: 793-501/000-002**  
WMB marking card; as card; not stretchable; plain; snap-on type; yellow



**Item No.: 2009-115/000-006**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 2009-115/000-007**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 2009-115/000-023**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 2009-115/000-017**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 2009-115/000-012**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 2009-115/000-024**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



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



**Item No.: 2009-115/000-002**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.8 Protective warning marker

1.2.8.1 Cover



**Item No.: 280-415**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Tool

1.2.9.1 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



**Item No.: 280-440**  
Operating tool; made of insulating material; 10-way



**Item No.: 280-432**  
Operating tool; made of insulating material; 2-way; white



**Item No.: 280-433**  
Operating tool; made of insulating material; 3-way



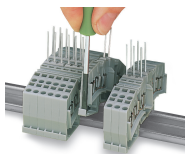
**Item No.: 280-434**  
Operating tool; made of insulating material; 4-way



**Item No.: 280-435**  
Operating tool; made of insulating material; 5-way; gray

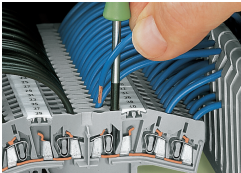
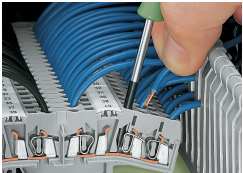
Installation Notes

Installation



Please note that due to the protruding rods, the terminal blocks can only be inserted or removed from the assembly after sliding adjacent terminal blocks on the rail.  
Removal: Separate terminal strip, slide terminal block to disconnect and then remove from the DIN-rail.

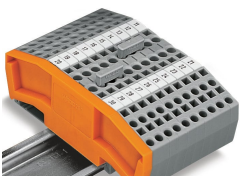
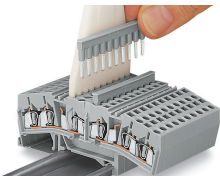
Conductor termination



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

**Terminal Blocks for Matrix Patching**  
Inserting/removing a conductor in the terminal block's center.

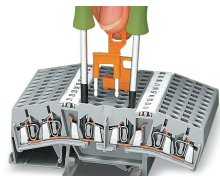
Commoning



**Multiplying potentials**  
Insertion of a 10-way comb-style jumper bar (only possible in the center).

**Commoning using comb-style jumper bars.**  
Push comb-style jumper bars down until fully inserted.

Commoning



**Using terminal blocks for matrix patching as disconnect terminal blocks via disconnect jumpers.**

Installation



**Terminal blocks are divided by a protruding separator plate.**

