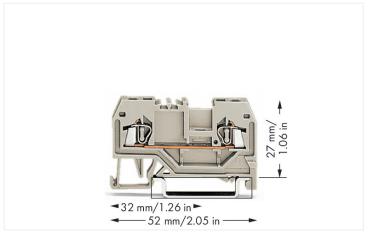
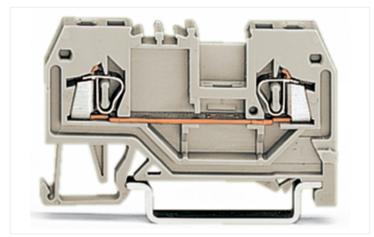
2-conductor through terminal block; 1.5 mm²; suitable for Ex e II applications; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 1,50 mm²; light gray



https://www.wago.com/279-992





Color: ■ light gray



Similar to illustration

# Through terminal block, 279 Series, CAGE CLAMP®

Our through terminal block (item number 279-992) makes connections quick and easy. Whether for industrial or building applications, you can use our through terminal blocks to connect electrical conductors quickly and safely. We offer variants for both classic through-wiring and potential distribution. Strip lengths must be between 8 mm and 9 mm when connecting conductors to this through terminal block. Featuring conductor terminals along with CAGE CLAMP®, this connector outperforms the competition. Our celebrated universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. Depending on the type of conductor, this through terminal block is ideal for conductor cross sections ranging from 0.08 mm² to 1.5 mm². It has one level. The single potential can connect using the two clamping points The light gray housing is made of polyamide (PA66) for insulation. This through rail-mount terminal block is operated with an operating tool. These through rail-mount terminal blocks are mounted using DIN-35 rails.. You can connect copper conductors thanks to front-entry wiring.

| Electrical data      |     |            |     |               |   |         |   |
|----------------------|-----|------------|-----|---------------|---|---------|---|
| Ratings per          | IEC | 'EN 60947- | 7-1 | Approvals per |   | UL 1059 |   |
| Overvoltage category | III | III        | II  | Use group     | В | С       | D |
| Pollution degree     | 3   | 2          | 2   | Rated voltage | - | 600 V   | - |
| Nominal voltage      | -   | -          | -   | Rated current | - | 10 A    | - |
| Rated surge voltage  | -   | -          | -   |               |   |         |   |
| Rated current        | -   | -          | -   |               |   |         |   |

# Data Sheet | Item Number: 279-992 https://www.wago.com/279-992



| Approvals per | CSA 22.2 No 158 |       |   |
|---------------|-----------------|-------|---|
| Use group     | В               | С     | D |
| Rated voltage | -               | 600 V | - |
| Rated current | -               | 10 A  | - |

| Ex information             |   |
|----------------------------|---|
| Reference hazardous areas  | See application instructions in section<br>"Knowledge and<br>Downloads – Documentation – Additio-<br>nal Information: Technical Section; Tech-<br>nical Explications" |
| Rated voltage EN (Ex e II) | 550 V   |
| Rated current (Ex e II)    | 15 A  |

| Power Loss   |           |
|--|-----------|
| Power loss, per pole (potential)                                 | 0.4118 W  |
| Rated current $I_N$ for specified power loss                     | 15 A      |
| Resistance value for specified, current-<br>dependent power loss | 0.00183 Ω |

| on data                   |   |                                 |                          |
|---------------------------|---|---------------------------------|--------------------------|
| ping units                | 2 | Connection 1                    |                          |
| otal number of potentials | 1 | Connection technology           | CAGE CLAMP®              |
| Number of levels          | 1 | Actuation type                  | Operating tool           |
|                           |   | Connectable conductor materials | Copper                   |
|                           |   | Solid conductor                 | 0.08 1.5 mm <sup>2</sup> |
|                           |   | Fine-stranded conductor         | 0.08 1.5 mm <sup>2</sup> |
|                           |   | Strip length                    | 8 9 mm / 0.31            |
|                           |   | Wiring direction                | Front-entry wiri         |

| Physical data                     |                      |
|-----------------------------------|----------------------|
| Width                             | 4 mm / 0.157 inches  |
| Height                            | 52 mm / 2.047 inches |
| Depth from upper-edge of DIN-rail | 27 mm / 1.063 inches |

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

| Material data                      |  |
|------------------------------------|--|
| Note (material data)               |  |
|                                    | Information on material specifications can be found here |
| Color                              | light gray   |
| Material group                     | 1  |
| Insulation material (main housing) | Polyamide (PA66)   |
| Flammability class per UL94        | VO   |
| Fire load                          | 0.084 MJ   |
| Weight                             | 4.2 g  |

https://www.wago.com/279-992



#### **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 9.0              | EC000897                         |
| ETIM 8.0              | EC000897                         |
| PU (SPU)              | 100 pcs                          |
| Packaging type        | Box                              |
| Country of origin     | DE                               |
| GTIN                  | 4044918524735                    |
| Customs tariff number | 85369010000                      |

# **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

# General approvals







| Approval                                | Standard      | Certificate Name |
|---|---------------|------------------|
| CSA<br>DEKRA Certification B.V.         | C22.2 No. 158 | 70133738         |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60947      | 2160584.04       |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059       | E45172           |

# Declarations of conformity and manufacturer's declarations

| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| ATEX-Attestation of Conformity WAGO GmbH & Co. KG | -        | -                |
| EU-Declaration of Conformity WAGO GmbH & Co. KG   | -        | -                |
| UK-Declaration of Conformity 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)    |
|   |          |                  |

# Approvals for hazardous areas









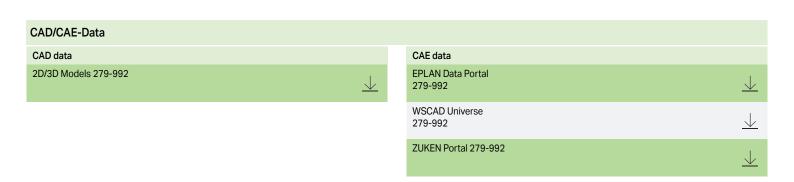
| Approval   | Standard    | Certificate Name   |
|--|-------------|--|
| AEx<br>UL International Germany<br>GmbH c/o Physikalisch<br>Technische Bundesanstalt | UL 60079    | E185892 (AEx e II)   |
| ATEX<br>Physikalisch Technische<br>Bundesanstalt (PTB)                               | -           | PTB 00 ATEX 3113 U (II 2<br>G Ex eb IIC Gb bzw. I M 2<br>Ex eb I Mb) |
| CCC<br>CNEX  | GB/T 3836.3 | 2020312313000232 (Ex<br>eb IIC Gb, Ex eb I Mb)                       |
| IECEx<br>Physikalisch Technische<br>Bundesanstalt                                    | IEC 60079-0 | IECEx PTB 03.0004U (Ex eb IIC Gb, Ex eb I Mb)                        |

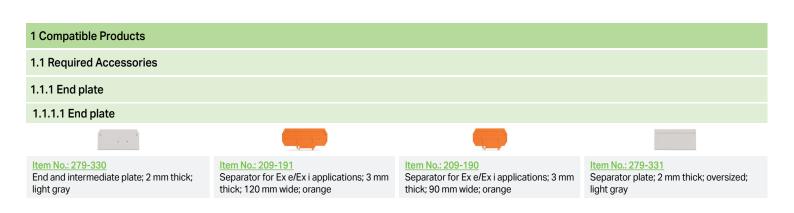
https://www.wago.com/279-992



# Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 279-992

| Documentation          |                   |          |          |            |                 |                          |
|------------------------|-------------------|----------|----------|------------|-----------------|--------------------------|
| Additional Information |                   |          | Bid Text |            |                 |                          |
| Technical Section      | pdf<br>2246.92 KB | <u>↓</u> | 279-992  | 19.02.2019 | xml<br>3.18 KB  | $\overline{\downarrow}$  |
|                        |                   |          | 279-992  | 28.02.2017 | doc<br>23.50 KB | $\underline{\downarrow}$ |





# 1.2 Optional Accessories

#### 1.2.1 DIN-rail

Item No.: 210-196

60715; silver-colored

# 1.2.1.1 Mounting accessories



Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm

thick; 2 m long; unslotted; similar to EN

# 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



#### 4

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

Item No.: 210-508

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



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

https://www.wago.com/279-992



#### 1.2.1.1 Mounting accessories



#### 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



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 Ferrule

#### 1.2.2.1 Ferrule



# Item No.: 216-301

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / 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



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; uninsulated; electro-tin plated; silver-colored



Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

#### Item No.: 216-102

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored

#### Item No.: 216-203

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red

#### Item No.: 216-103

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

#### 1.2.3 Installation

#### 1.2.3.1 Cover



#### Item No.: 709-153

Cover; Type 1; suitable for cover carrier, type 1; 1 m long; transparent

# 1.2.3.2 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

#### 1.2.3.3 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 DINrail 35 x 15 and 35 x 7.5; gray https://www.wago.com/279-992



#### 1.2.4 Insulation stop

#### 1.2.4.1 Insulation stop



Item No.: 279-470

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm2 "f-st"); 5 pieces/strip; white



Item No.: 279-471

Insulation stop; 0.25 mm<sup>2</sup>; 5 pieces/strip;

#### 1.2.5 Jumper

#### 1.2.5.1 Jumper

Item No.: 279-490



Jumper; 10-way; insulated; gray

Item No.: 279-482

Jumper; 2-way; insulated; gray

Item No.: 279-492

Jumper; 2-way; insulated; gray

Item No.: 279-483

Jumper; 3-way; insulated; gray



Item No.: 279-402

Jumper; insulated; gray

Item No.: 279-409

Jumper; insulated; gray

Item No.: 279-422

Jumper; insulated; yellow-green

#### 1.2.6 Marking

#### 1.2.6.1 Double marker carrier



Item No.: 209-128

Adaptor; gray

#### 1.2.6.2 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

#### 1.2.6.3 Marker



Item No.: 793-4501/000-006

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; blue



Item No.: 793-4501/000-014

WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; brown



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

Item No.: 793-4501

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



WMB marking card; as card; stretchable 4 - 4.2 mm; plain; snap-on type; white



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

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#### 1.2.6.3 Marker





#### 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.: 279-415

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 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 Tool

# 1.2.9.1 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 a terminal block onto the DIN-rail.



Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).

# MAGO

#### Conductor termination



**CAGE CLAMP® connection** Inserting a conductor.



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



Inserting insulation stops.



**CAGE CLAMP® connection** Removing a solid conductor.

#### Commoning



Commoning using an adjacent jumper. Push jumper down until fully inserted!



# Push-In Type Wire Jumpers

When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touchproof, push-in type wire jumpers are the ideal solution.

These jumpers are compatible with the following rail-mount terminal blocks:

- 279 Series (1.5 mm²/16 AWG),

the right).

- 280/775/780 Series (2.5 mm²/14 AWG) - 281/769/776/777/781 and 880 Series

(4 mm²/12 AWG)
They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on

The 280/775/780 and 281/776/777/781 Series Terminal Blocks accept two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal



Commoning using comb-style jumper bars:

Push comb-style jumper bars down until fully inserted.

# Cover



Protective warning markers inserted into the operating slots

https://www.wago.com/279-992



#### Marking



Labeling via WMB Multi Marking System.

# Ex application



# Separator plate for Ex e/Ex i applications

According to EN 50020, a minimum distance of 50 mm must be kept between live parts of Ex e and Ex i circuits. The use of Ex e/Ex i separators is a space-saving solution when Ex e and Ex i terminal blocks are mounted on a common DINrail.

For 279 ... 282 Series: 209-190 for 2-conductor terminal blocks 209-191 for 2-, 3-, 4-conductor terminal blocks



#### End and intermediate plate

In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.

Subject to changes. Please also observe the further product documentation!