2-conductor through terminal block; with push-button; 16 mm<sup>2</sup>; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 16,00 mm<sup>2</sup>: black



https://www.wago.com/2216-1205





Color: ■ black



Similar to illustration

#### Through terminal block, 2216 Series, push-button

This through terminal block (item number 2216-1205) is designed to connect conductors quickly and easily. 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. This through rail-mount terminal block has a rated voltage of 800 V and can handle currents up to 76 A. Conductors should only be connected to this through terminal block if their strip length is between 18 mm and 20 mm. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product delivers reliable performance. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be pushed in without the need for tools—all thanks to its pluggable design. The dimensions are 12 x 69.8 x 43.7 mm (width x height x depth). Depending on the conductor type, this through terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 16 mm². It features one level and two clamping points that you can use to connect a single potential. The black housing is made of polyamide (PA66) for insulation. A push-button is used to operate this through rail-mount terminal block. Our TOPJOB® S rail-mount terminal blocks guarantee secure electrical connections in various industrial applications and modern building installations. They make wiring work easier as you can quickly plug in solid, stranded, and fine-stranded conductors with ferrules. These through rail-mount terminal blocks are mounted using DIN-35 rails.. Conductors made of copper can be connected thanks to front-entry wiring. The two jumper slots enable potential distribution to other clamping points. This product is designed for specific Ex applications (please refer to the product datasheet).

| Electrical data      |       |           |     |                                    |      |             |    |
|----------------------|-------|-----------|-----|------------------------------------|------|-------------|----|
| Ratings per          | IEC/  | EN 60947- | 7-1 | Ratings per                        | IEC  | 'EN 60947-7 | ·1 |
| Overvoltage category | III   | III       | II  | Current at conductor cross-section | 90 A | -           | -  |
| Pollution degree     | 3     | 2         | 2   | (max.) mm²                         |      |             |    |
| Nominal voltage      | 800 V | -         | -   |                                    |      |             |    |
| Rated surge voltage  | 8 kV  | -         | -   |                                    |      |             |    |
| Rated current        | 76 A  | -         | -   |                                    |      |             |    |

# Data Sheet | Item Number: 2216-1205 https://www.wago.com/2216-1205



| Ratings per IEC/EN – Notes |  |
|----------------------------|--|
| Rated current (note)       | 15 mm high DIN-35 rails shall be used for a current load higher than 76 A! |

| Approvals per | CSA 22.2 No 158 |       |   |
|---------------|-----------------|-------|---|
| Use group     | В               | С     | D |
| Rated voltage | 600 V           | 600 V | - |
| Rated current | 85 A            | 85 A  | - |

| Approvals per | UL 1059 |       |   |
|---------------|---------|-------|---|
| Use group     | В       | С     | D |
| Rated voltage | 600 V   | 600 V | - |
| Rated current | 85 A    | 85 A  | - |

| Ex information                      |  |
|-------------------------------------|--|
| Reference hazardous areas           | See "Downloads – Documentation – Additional Information: Technical Section;<br>Technical Explications" |
| Ratings per                         | ATEX: PTB 18 ATEX 1009 U / IECEx: PTB 18.0016U (Ex eb IIC Gb)  |
| Rated voltage EN (Ex e II)          | 550 V  |
| Rated current (Ex e II)             | 76 A   |
| Rated current (Ex e II) with jumper | 65 A   |

| Power Loss   |           |
|--|-----------|
| Power loss, per pole (potential)                                 | 2.4259 W  |
| Rated current $I_N$ for specified power loss                     | 76 A      |
| Resistance value for specified, current-<br>dependent power loss | 0.00042 Ω |

| Connection data            |   |  |
|----------------------------|---|--|
| Clamping units             | 2 |  |
| Total number of potentials | 1 |  |
| Number of levels           | 1 |  |
| Number of jumper slots     | 2 |  |

| Connection 1   |  |  |
|--|--|--|
| Connection technology                                      | Push-in CAGE CLAMP®  |  |
| Actuation type   | Push-button  |  |
| Connectable conductor materials                            | Copper   |  |
| Nominal cross-section                                      | 16 mm²   |  |
| Solid conductor  | 0.5 16 mm² / 20 6 AWG  |  |
| Solid conductor; push-in termination                       | 2.5 16 mm² / 14 6 AWG  |  |
| Fine-stranded conductor                                    | 0.5 25 mm² / 20 4 AWG  |  |
| Fine-stranded conductor; with insulated ferrule            | 0.5 16 mm² / 20 6 AWG  |  |
| Fine-stranded conductor; with ferrule; push-in termination | 6 16 mm² / 10 6 AWG  |  |
| Note (conductor cross-section)                             | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.  AWG specifications were converted according to IEC. |  |
| Strip length   | 18 20 mm / 0.71 0.79 inches  |  |
| Wiring direction   | Front-entry wiring   |  |

| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 12 mm / 0.472 inches   |
| Height                            | 69.8 mm / 2.748 inches |
| Depth from upper-edge of DIN-rail | 37.1 mm / 1.461 inches |
| Depth                             | 43.7 mm / 1.72 inches  |

## Data Sheet | Item Number: 2216-1205 https://www.wago.com/2216-1205



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

| Material data                      |   |
|------------------------------------|---|
| Note (material data)               |   |
|                                    | <u>Information on material specifications can be found here</u> |
| Color                              | black   |
| Material group                     | 1   |
| Insulation material (main housing) | Polyamide (PA66)  |
| Flammability class per UL94        | VO  |
| Fire load                          | 0.492 MJ  |
| Actuator color                     | orange  |
| Weight                             | 23.7 g  |

| Environmental requirements       |             |  |   |  |
|----------------------------------|-------------|--|---|--|
| Processing temperature           | -35 +85 °C  | Environmental Testing (Environmental Conditions)   |   |  |
| Continuous operating temperature | -60 +105 °C | Test specification Railway applications – Rolling stock – Electronic equipment                     | DIN EN 50155 (VDE 0115-200):2022-06   |  |
|                                  |             | Test procedure<br>Railway applications –<br>Rolling stock equipment –<br>Shock and vibration tests | DIN EN 61373 (VDE 0115-0106):2011-04  |  |
|                                  |             | Spectrum/Installation location   | Service life test, Category 1, Class A/B  |  |
|                                  |             | Function test with noise-like vibration  | Test passed according to Section 8 of the standard  |  |
|                                  |             | Frequency  | $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$<br>$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$  |  |
|                                  |             | Acceleration   | 0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes) |  |
|                                  |             | Test duration per axis   | 10 min.<br>5 h  |  |
|                                  |             | Test directions  | X, Y and Z axes<br>X, Y and Z axes<br>X, Y and Z axes   |  |
|                                  |             | Monitoring for contact faults/interruptions  | Passed  |  |
|                                  |             | Voltage drop measurement before and after each axis  | Passed  |  |
|                                  |             | Simulated service life test through increased levels of noise-like vibration                       | Test passed according to Section 9 of the standard  |  |
|                                  |             | Extended test scope: Monitoring for contact faults/interruptions                                   | Passed<br>Passed  |  |
|                                  |             | Extended test scope: Voltage drop measurement before and after each axis                           | Passed<br>Passed  |  |
|                                  |             | Shock test   | Test passed according to Section 10 of the standard   |  |
|                                  |             | Shock form   | Half sine   |  |
|                                  |             | Shock duration   | 30 ms   |  |
|                                  |             | Number of shocks per axis  | 3 pos. und 3 neg.   |  |
|                                  |             | Vibration and shock stress for rolling stock equipment   | Passed  |  |

https://www.wago.com/2216-1205



| Commercial data       |               |
|-----------------------|---------------|
| ETIM 9.0              | EC000897      |
| ETIM 8.0              | EC000897      |
| PU (SPU)              | 20 pcs        |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4066966335514 |
| Customs tariff number | 85369010000   |

#### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

#### Approvals / Certificates

#### General approvals





| Approval                                   | Standard      | Certificate Name |
|--|---------------|------------------|
| CCA DEKRA Certification B.V.               | EN 60947      | NTR NL-7947      |
| cURus<br>Underwriters Laboratories<br>Inc. | C22.2 No. 158 | E 45172          |
| KEMA/KEUR<br>DEKRA Certification B.V.      | EN 60947      | 71-124545        |

#### 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   | -        | -                |
| Railway<br>WAGO GmbH & Co. KG                     | -        | Z00004408.000    |
| UK-Declaration of Conformity WAGO GmbH & Co. KG   | -        | -                |

#### Approvals for marine applications









| Certificate Name |
|------------------|
| 19-HG1866350-PDA |
| 58186/A0 BV      |
| TAE00003JT       |
| 19/20050         |
|                  |

#### Approvals for hazardous areas









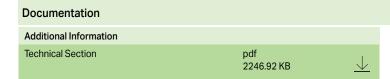


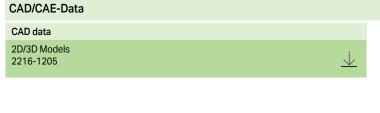
| Approval  | Standard    | Certificate Name   |
|---|-------------|--|
| AEx<br>Underwriters Laboratories<br>Inc.          | UL 60079    | E185892 (AEx eb IIC resp.<br>Ex eb IIC)                              |
| ATEX<br>Physikalisch Technische<br>Bundesanstalt  | EN 60079-0  | PTB 18 ATEX 1009 U (II 2<br>G Ex eb IIC Gb bzw. I M 2<br>Ex eb I Mb) |
| CCCEx<br>CQST/CNEx                                | GB/T 3836.3 | 2020312313000175   |
| IECEx<br>Physikalisch Technische<br>Bundesanstalt | IEC 60079   | IECEx PTB 18.0016U (Ex eb IIC Gb and Ex eb I Mb)                     |
| INMETRO<br>TÜV Rheinland do Brasil<br>Ltda.       | IEC 60079   | TÜV 19.0822 U  |

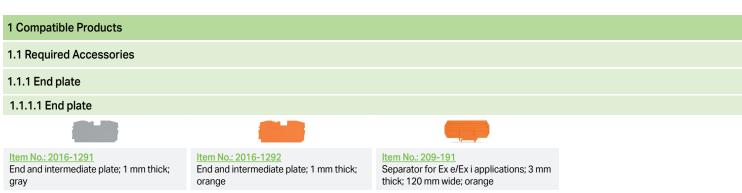
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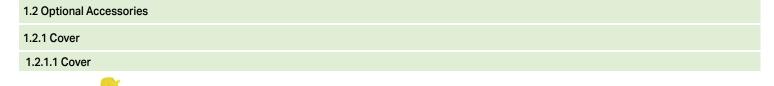


# Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 2216-1205









Item No.: 2016-100

Finger guard; touchproof cover protects unused conductor entries; yellow

https://www.wago.com/2216-1205



#### 1.2.2 DIN-rail

#### 1.2.2.1 Mounting accessories



#### Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



#### 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



#### 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.: 210-114

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

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

#### Item No.: 210-112

Item No.: 216-210

Part 4/09.90; blue

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.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

#### 1.2.3 Ferrule

#### 1.2.3.1 Ferrule

Item No.: 216-284



Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-

sulated; electro-tin plated; electrolytic

copper; gastight crimped; acc. to DIN

46228, Part 4/09.90; black



## Item No.: 216-289

Ferrule; Sleeve for 10 mm<sup>2</sup> / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Ferrule; Sleeve for 16 mm<sup>2</sup> / AWG 6; insu-

lated; electro-tin plated; electrolytic cop-

per; gastight crimped; acc. to DIN 46228,

#### Item No.: 216-286

Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



#### Item No.: 216-287

Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-288 Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228,



Part 4/09.90; yellow

#### 1.2.4 Installation

#### 1.2.4.1 Cover



#### Item No.: 709-156

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

#### 1.2.4.2 Cover carrier



#### Item No.: 709-169

Cover carrier; Type 3; 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



#### 1.2.5 Jumper

#### 1.2.5.1 Jumper



Item No.: 2016-402

Jumper; 2-way; insulated; light gray



Jumper; 3-way; insulated; light gray



Item No.: 2016-404

Jumper; 4-way; insulated; light gray



Item No.: 2016-405

Jumper; 5-way; insulated; light gray



Item No.: 2016-433

Jumper; from 1 to 3; insulated; light gray

Item No.: 2016-434

Jumper; from 1 to 4; insulated; light gray

Item No.: 2016-435

Jumper; from 1 to 5; insulated; light gray

Item No.: 2016-405/011-000

Star point jumper; 3-way; insulated; light

Item No.: 2016-499

Step-down jumper; from 2016/2010 to 2010/2006/2004/2002 series; from 2216/2210 to 2210/2206/2204/2202 series; insulated; light gray

Item No.: 285-430

Step-down jumper; from 285 (35mm²) to 2016/2010 series; insulated; gray

#### 1.2.6 Marking

#### 1.2.6.1 Group marker carrier



Item No.: 2009-191

Group marker carrier; gray

Item No.: 2009-192

Group marker carrier; gray

Item No.: 2009-193

Group marker carrier; gray

#### 1.2.6.2 Marker

#### Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

#### Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



## Item No.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

#### Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

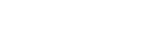
#### Item No.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



#### Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



#### Item No.: 248-501/000-023

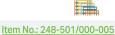
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



chable; plain; snap-on type; light green

## Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 248-501/000-007

Mini-WSB marking card; as card; not

stretchable; plain; snap-on type; gray

Mini-WSB marking card; as card; not

stretchable; plain; snap-on type; red

Mini-WSB marking card; as card; not



## Item No.: 248-501/000-024

stretchable; plain; snap-on type; violet





Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



#### Item No.: 248-501/000-002

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

#### 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; snap-on type; blue



WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; 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; snap-on type; 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

https://www.wago.com/2216-1205



#### 1.2.6.2 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.: 793-5501/000-002 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 -5.2 mm; plain; snap-on type; yellow

WMB marking card; as card; not stretcha-

ble; plain; snap-on type; light green

#### Item No.: 793-501/000-006

WMB marking card; as card; not stretchable; plain; snap-on type; blue

#### 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.: 793-501/000-012

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

WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain;



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

#### Item No.: 793-501/000-002

WMB marking card; as card; not stretchable; plain; snap-on type; yellow



WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



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

4

#### 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

Item No.: 2009-115/000-007

snap-on type; gray

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

#### 1.2.6.3 Marker carrier



Item No.: 2009-198

Adaptor; gray

#### 1.2.6.4 Marking strip

#### Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

#### 1.2.7 Screwless end stop

#### 1.2.7.1 Mounting accessories





#### Item No.: 249-117

Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; 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/2216-1205



#### 1.2.8 Test and measurement

#### 1.2.8.1 Testing accessories



#### Item No.: 2016-511

Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; 4,00 mm²; grav



#### Item No.: 2016-549

Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

## Item No.: 2009-174

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

#### Item No.: 2009-182

Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

#### 1.2.9 Tool

#### 1.2.9.1 Operating tool



#### Item No.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

#### **Installation Notes**

#### Conductor termination











All conductor types at a glance

Push-in termination of solid and ferruled conductors

Push-in termination of solid and ferruled conductors

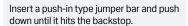
Insert fine-stranded conductors via operating tool.



Removing all conductors via operating tool.

#### Commoning







Commoning with step-down jumpers.

https://www.wago.com/2216-1205



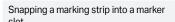
#### Testing



Testing with a 2 mm Ø test plug (max. 42

#### Marking







Snapping a marking strip into the marker

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