# Data Sheet | Item Number: 2007-8877

Compact terminal block; for current transformer circuit; 6,00 mm²; multicoloured

https://www.wago.com/2007-8877





Color: multi-colored

Current transformer terminal block, 2007 Series, Push-in CAGE CLAMP®

This current transformer terminal block (item number 2007-8877) provides seamless electrical installations. Conductors can only be connected to this current transformer terminal block if their strip length is between 13 and 15 mm . This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. This current transformer terminal block is suitable for conductor cross-sections ranging from 0.5 mm² to 10 mm².

- Actuation via operating tool
- Compact sizes
- Ready to install, immediately usable

## Electrical data

### Ratings per IEC/EN

| | |
|---|---|
| Nominal voltage (III/3) | 500 V |
| Rated impulse withstand voltage (III / 3) | 6 kV |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

### General information

| | |
|---|---|
| Wiring direction | Front-entry wiring |

## Connection Data

| | |
|---|---|
| Number of levels | 1 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 6 mm² / 10 AWG |
| Solid conductor | 0.5 … 10 mm² / 20 … 8 AWG |
| Solid conductor; push-in termination | 1 … 10 mm² / 14 … 8 AWG |
| Fine-stranded conductor | 0.5 … 10 mm² / 20 … 8 AWG |


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## Connection 1

| | |
|---|---|
| Fine-stranded conductor; with insulated ferrule | 0.5 … 6 mm² / 20 … 10 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 1.5 … 6 mm² / 16 … 10 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 2.5 … 6 mm² / 16 … 10 AWG |
| Strip length | 13 … 15 mm / 0.51 … 0.59 inches |
| Wiring direction | Front-entry wiring |

## Physical data

| | |
|---|---|
| Width | 85.5 mm / 3.366 inches |
| Height | 99.6 mm / 3.921 inches |
| Depth from upper-edge of DIN-rail | 65.3 mm / 2.571 inches |
| Module width | 8 mm / 0.315 inches |

## Mechanical data

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

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | multi-colored |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 3.741 MJ |
| Weight | 248.9 g |
| Test socket color | orange |

## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 °C |
| Continuous operating temperature | -60 … +105 °C |

## Environmental Testing

| | |
|---|---|
| Test specification: Railway applications – Rolling stock – Electronic equipment | DIN EN 50155 (VDE 0115-200):2022-06 |
| Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests | DIN EN 61373 (VDE 0115-0106):2011-04 |
| Spectrum/Mounting location | Service life test, Category 1, Class A/B |
| Functional test with noise-like oscillations | Test passed according to Section 8 of the standard |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| Acceleration | 0.101g (highest test level used for all axes) |
| Test duration per axis | 10 min. |
| Test directions | X, Y and Z axes |
| Monitoring of contact faults and interruptions | Passed |
| Voltage drop measurement before and after each axis | Passed |
| Simulated service life test through increased levels of noise-like oscillations | Test passed according to Section 9 of the standard |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| Acceleration | 0.572g (highest test level used for all axes) |
| Test duration per axis | 5 h |


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| Environmental Testing | |
|---|---|
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Shock test | Test passed according to Section 10 of the standard |
| Shock pulse form | Half sine |
| Acceleration | 5g (highest test level used for all axes) |
| Shock duration | 30 ms |
| Number of shocks (per axis) | 3 pos. und 3 neg. |
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Vibration and shock stress for rolling stock equipment | Passed |

| Commercial data | |
|---|---|
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143240673 |
| Customs tariff number | 85369010000 |

| Product Classification | |
|---|---|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-47 |
| eCl@ss 9.0 | 27-14-11-47 |
| ETIM 9.0 | EC000276 |
| ETIM 10.0 | EC000276 |
| ECCN | NO US CLASSIFICATION |

| Environmental Product Compliance | |
|---|---|
| CAS-No. | 7439-92-1 |
| REACH Candidate List Substance | Lead |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) |
| SCIP notification number (Austria) | 99de7278-19dc-4ed9-a698-f110ec8232e4 |
| SCIP notification number (Belgium) | fd633b4b-67a5-4775-b71b-acf940f0d948 |
| SCIP notification number (Bulgaria) | 7c216727-d1d4-4645-9815-24fb4147d9cc |
| SCIP notification number (Czech Republic) | b07a6628-9357-4d52-b4ce-56af8cc35208 |
| SCIP notification number (Denmark) | eae2ad3e-d989-4fdd-b847-71f9d79261a1 |
| SCIP notification number (Finland) | 6fa044d4-f699-4d5d-a982-88fa55734835 |
| SCIP notification number (France) | 7f687f6f-4ff2-4b6c-8634-a755838686e8 |
| SCIP notification number (Germany) | c4756e0b-1539-4c7c-a551-db2f93a39f44 |
| SCIP notification number (Hungary) | 45fde486-5020-435b-8cab-0c0daffc45e1 |
| SCIP notification number (Italy) | 27d0abfc-da60-466c-8d3e-bc3b08f266f9 |
| SCIP notification number (Netherlands) | 705851ff-e5cd-4b67-8dfa-fb2e1b4d97fb |
| SCIP notification number (Poland) | 75c10da8-2db0-479d-ac47-d45422a58aa5 |
| SCIP notification number (Romania) | 47726db3-134c-48c2-9103-62167e5cf996 |
| SCIP notification number (Sweden) | fe3e7e14-5def-45d0-aee8-86ef3a15be18 |


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## Approvals / Certificates

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| Railway<br>WAGO GmbH & Co. KG | - | Railway Ready |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2007-8877

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 2007-8877 | 21.07.2015 | doc<br>24.50 KB |
| 2007-8877 | 19.02.2019 | xml<br>3.43 KB |

## CAD/CAE-Data

**CAD data**

2D/3D Models 2007-8877

**CAE data**

EPLAN Data Portal 2007-8877

WSCAD Universe 2007-8877

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 DIN-rail

##### 1.1.1.1 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



Item No.: 210-115
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
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


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## 1.1.2 Installation

### 1.1.2.1 Cover



Item No.: 709-156
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

### 1.1.2.2 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

## 1.1.3 Marking

### 1.1.3.1 Marker



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.: 793-501/000-017
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



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


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### 1.1.3.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.4 Screwless end stop

### 1.1.4.1 Mounting accessories



Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

### 1.1.5 Tool

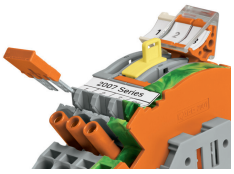
### 1.1.5.1 Operating tool



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

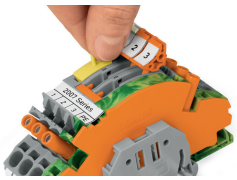
## Installation Notes

### Commoning

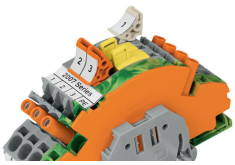


Additional commoning option on the transformer side

### Security



Lock-out prevents accidental operation of disconnect link.

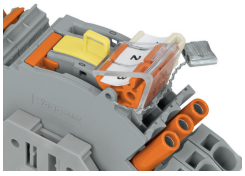


Lock-out snaps into one of two notched positions.

## Locking system



Using locking covers or profiles for adjacent terminal blocks allows disconnect links to be operated simultaneously.

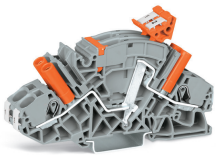


A lock-out seal can be used on the disconnect link in operating position I when combined with an end and separator plate (Item No. 2007-8893 or Item No. 2007-8894).

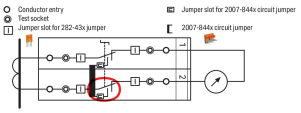


Interlocking link mechanically locks multiple links for multi-pole switching applications.

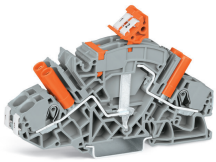
## Measurement



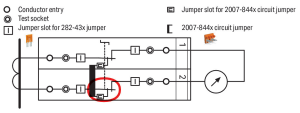
**Disconnect link in operating position I**
Terminal blocks required:
2 x disconnect/test terminal block (Item No. 2007-8821)
1 x circuit jumper, orange (Item No. 2007-8442)
Locking covers or interlocking links (option)




In the operating position, the measurement device is connected to the transformer, the circuit jumper is inserted and the disconnect link is in position I.



**Disconnect link in shorting position II**

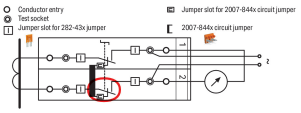



The transformer is not disconnected from the measuring device yet, the shorting path is activated by moving the disconnect link into shorting position II and the transformer is safely shorted.

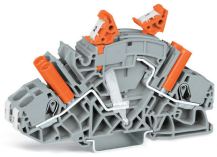
## Measurement



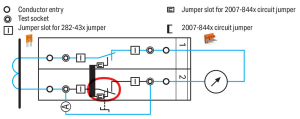
**Test current measurement: Disconnect link in measuring position III**




The measuring device is electrically disconnected from the transformer. If required, an external voltage can be applied to the measuring device via the test socket.

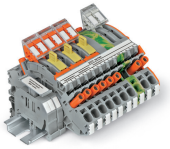


**Measurement testing (using both test sockets)**
Terminal block 1: Disconnect link in operating position I
Terminal block 2: Disconnect link in measuring position III




Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).

## Marking



Marking via WMB Multi markers or marking strips.