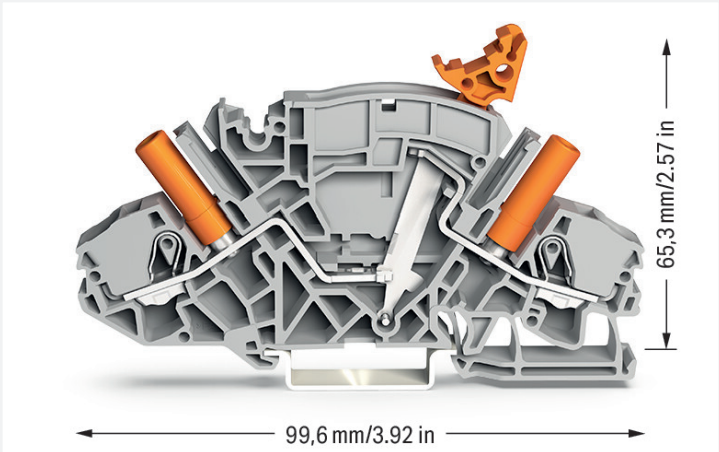
# Data Sheet | Item Number: 2007-8821

2-conductor disconnect/test terminal block; e.g., current transformer circuits; with receptacle for adjacent jumper with switch lever; for 4 mm Ø test plugs; for DIN-rail 35 x 15 and 35 x 7.5; 6 mm²; Push-in CAGE CLAMP®; 6,00 mm²; gray

https://www.wago.com/2007-8821




Color: gray

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

Our current transformer terminal block (item number 2007-8821) simplifies electrical installations. Ensure that the strip lengths are between 13 mm and 15 mm when connecting conductors to this current transformer terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. Depending on the conductor type, this current transformer terminal block is designed for conductor cross sections ranging from 0.5 mm² to 10 mm². It has one level. Two potentials can connect using the two clamping points The gray housing is made of polyamide (PA66) for insulation. These function terminal blocks are mounted using DIN-35 rails..

## Electrical data

| Ratings per | IEC/EN 60664-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 500 V | - | - |
| Rated surge voltage | 6 kV | - | - |
| Rated current | 30 A | - | - |

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | 300 V | 300 V |
| Rated current | 30 A | 30 A | 10 A |

| Approvals per | CSA 22.2 No 158 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 300 V | 300 V | 300 V |
| Rated current | 30 A | 30 A | 10 A |

| Power Loss | |
|---|---|
| Power loss, per pole (potential) | 0.702 W |
| Rated current $I_N$ for specified power loss | 30 A |
| Resistance value for specified, current-dependent power loss | 0.00078 Ω |

## Connection data

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

| 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 |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 6 mm² / 20 … 10 AWG |


Continued on next page

## Connection 1

| | |
|---|---|
| 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 | 8 mm / 0.315 inches |
| Height | 99.6 mm / 3.921 inches |
| Depth from upper-edge of DIN-rail | 65.3 mm / 2.571 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 | gray |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.418 MJ |
| Weight | 27.8 g |
| Test socket color | orange |

## Environmental requirements

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

### Environmental Testing (Environmental Conditions)

| | |
|---|---|
| Test specification<br>Railway applications –<br>Rolling stock –<br>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 Hz to $f_2$ = 150 Hz<br>$f_1$ = 5 Hz to $f_2$ = 150 Hz |
| Acceleration | 0.101g (highest test level used for all axes)<br>0.572g (highest test level used for all axes)<br>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 |


Continued on next page

## Environmental Testing (Environmental Conditions)

| | |
|---|---|
| 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 |

## Commercial data

| | |
|---|---|
| Product Group | 22 (TOPJOB S) |
| PU (SPU) | 20 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4055143074889 |
| Customs tariff number | 85365080000 |

## Product classification

| | |
|---|---|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-26 |
| eCl@ss 9.0 | 27-14-11-26 |
| ETIM 9.0 | EC000902 |
| ETIM 8.0 | EC000902 |
| 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) | 1e2c4f68-0c80-4f7f-b4d2-ef9b6ed3f735 |
| SCIP notification number (Belgium) | 1a46df3e-2ff6-4cf3-a263-340ef76fa1f1 |
| SCIP notification number (Bulgaria) | 72f5ce78-1f67-471a-94a3-5898375f14ad |
| SCIP notification number (Czech Republic) | ad5734e3-cdb1-429e-8734-a0ee4cd49658 |
| SCIP notification number (Denmark) | b401e4ad-1620-4947-b7de-3f25977d8bb1 |
| SCIP notification number (Finland) | 579c56ae-46b0-4b84-942e-7623c8338835 |
| SCIP notification number (France) | a4ec1bfd-c70f-4a69-b65f-bdebdedcbd5b |
| SCIP notification number (Germany) | c074da76-1734-4521-a06a-664455df075b |
| SCIP notification number (Hungary) | 7c7aea40-b04a-49a6-9b36-bb658cda7ee1 |
| SCIP notification number (Italy) | 97ddee9e-6f84-4304-abef-21c95eabb33d |
| SCIP notification number (Netherlands) | 3d7fc2ee-5b30-4782-8d24-56b6e1c59f55 |
| SCIP notification number (Poland) | 57bafb00-40d2-41d5-9b04-7c3ca60febb1 |
| SCIP notification number (Romania) | 201ddf09-009d-457f-aa41-ec1c2f19a211 |
| SCIP notification number (Sweden) | b67a192b-2617-4193-a205-27932d31da00 |


Continued on next page

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | 71-122099 |
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL-7911 |
| CSA<br>DEKRA Certification B.V. | C22.2 No. 158 | 70009679 |
| UL<br>UL International Germany GmbH | UL 1059 | E45172 |

### Declarations of conformity and manufacturer's declarations

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

### Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 2007-8821

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 2007-8821 | 17.04.2019 | xml<br>4.06 KB |
| 2007-8821 | 17.04.2019 | docx<br>15.64 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 2007-8821

**CAE data**

EPLAN Data Portal 2007-8821

WSCAD Universe 2007-8821

ZUKEN Portal 2007-8821


Continued on next page

# 1 Compatible Products

## 1.1 Required Accessories

### 1.1.1 End plate

#### 1.1.1.1 End plate

Item No.: 2007-8893
End plate; 1.5 mm thick; with lock-out seal option; gray

Item No.: 2007-8894
End plate; 1.5 mm thick; with lock-out seal option; orange

Item No.: 2007-8891
End plate; 1.5 mm thick; without lock-out seal option; gray

Item No.: 2007-8892
End plate; 1.5 mm thick; without lock-out seal option; orange

### 1.1.2 Jumper

#### 1.1.2.1 Jumper

Item No.: 2007-8442
Adjacent jumper for switching lever; 2-way; insulated; orange

Item No.: 2007-8443
Adjacent jumper for switching lever; 3-way; insulated; orange

Item No.: 2007-8444
Adjacent jumper for switching lever; 4-way; insulated; orange

Item No.: 2007-8445
Adjacent jumper for switching lever; 5-way; insulated; orange

Item No.: 2007-8446
Adjacent jumper for switching lever; 6-way; insulated; orange

Item No.: 2007-8447
Adjacent jumper for switching lever; 7-way; insulated; orange

Item No.: 2007-8448
Adjacent jumper for switching lever; 8-way; insulated; orange

## 1.2 Optional Accessories

### 1.2.1 DIN-rail

#### 1.2.1.1 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

### 1.2.2 Installation

#### 1.2.2.1 Cover



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

### 1.2.2.2 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

## 1.2.3 Jumper

### 1.2.3.1 Jumper

Item No.: 282-440
Jumper; 10-way; insulated; orange

Item No.: 282-432
Jumper; 2-way; insulated; orange

Item No.: 282-432/100-000
Jumper; 2-way; insulated; orange

Item No.: 282-433
Jumper; 3-way; insulated; orange

Item No.: 282-433/100-000
Jumper; 3-way; insulated; orange

Item No.: 282-434
Jumper; 4-way; insulated; orange

Item No.: 282-434/100-000
Jumper; 4-way; insulated; orange

Item No.: 282-435
Jumper; 5-way; insulated; orange

Item No.: 282-436
Jumper; 6-way; insulated; orange

Item No.: 282-437
Jumper; 7-way; insulated; orange

Item No.: 282-438
Jumper; 8-way; insulated; orange

Item No.: 282-439
Jumper; 9-way; insulated; orange

Item No.: 282-435/011-000
Jumper; insulated; orange

Item No.: 282-435/300-000
Jumper; insulated; orange

Item No.: 282-435/301-000
Jumper; insulated; orange

Item No.: 282-436/301-000
Jumper; insulated; orange

Item No.: 282-436/304-000
Jumper; insulated; orange

Item No.: 282-437/011-000
Jumper; insulated; orange

Item No.: 282-437/012-000
Jumper; insulated; orange

Item No.: 282-438/300-000
Jumper; insulated; orange

Item No.: 282-438/301-000
Jumper; insulated; orange

Item No.: 282-439/011-000
Jumper; insulated; orange

## 1.2.4 Locking system

### 1.2.4.1 Locking system

Item No.: 210-254
Interlocking link; mechanically locks multiple links; 1 m long; transparent

Item No.: 282-881
Locking cover; mechanically locks multiple links; 1-pole; transparent

Item No.: 282-882
Locking cover; mechanically locks multiple links; 2-pole; transparent

Item No.: 282-883
Locking cover; mechanically locks multiple links; 3-pole; transparent

Item No.: 282-884
Locking cover; mechanically locks multiple links; 4-pole; transparent

Item No.: 282-885
Locking cover; mechanically locks multiple links; 5-pole; transparent

Item No.: 282-886
Locking cover; mechanically locks multiple links; 6-pole; transparent

Item No.: 282-887
Locking cover; mechanically locks multiple links; 7-pole; transparent

Item No.: 282-888
Locking cover; mechanically locks multiple links; 8-pole; transparent


Continued on next page

## 1.2.5 Lock-out

### 1.2.5.1 Locking system

Item No.: 2007-8899
Lock-out; for disconnect link; yellow

## 1.2.6 Marking

### 1.2.6.1 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

### 1.2.6.2 Marker carrier

Item No.: 2009-198
Adaptor; gray

### 1.2.6.3 Marking strip

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

 Continued on next page

## 1.2.7 Protective warning marker

### 1.2.7.1 Cover

Item No.: 2006-115
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.2.8 Screwless end stop

### 1.2.8.1 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

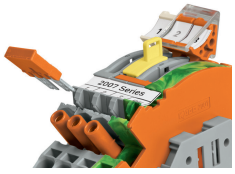
## 1.2.9 Tool

### 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

### Commoning

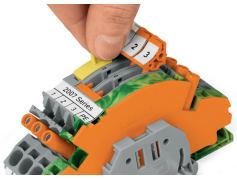


Additional commoning option on the transformer side

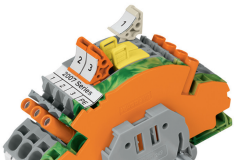
Preparing shorting path for the current transformer circuits.

Insert insulated, touch-proof circuit jumpers into jumper slot.

Insert insulated, touch-proof circuit jumpers into jumper slot.



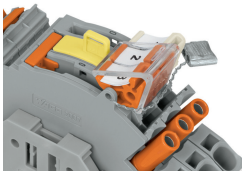
Lock-out prevents accidental operation of disconnect link.



Lock-out snaps into one of two notched positions.

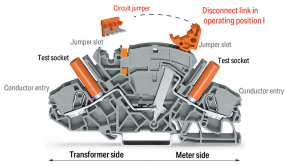
## Locking system

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

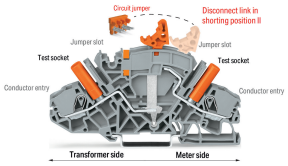


A lock-out seal can be used on the disconnect link in operating position I when combined with an end and separator plate (Item No. 2007-8893 or Item No. 2007-8894).

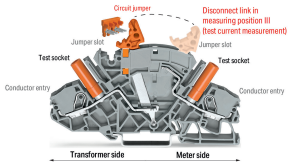
Interlocking link mechanically locks multiple links for multi-pole switching applications.



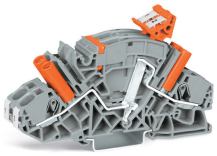

Disconnect/Test Terminal Block (Item No. 2007-8821)



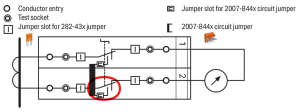

Disconnect/Test Terminal Block (Item No. 2007-8821)



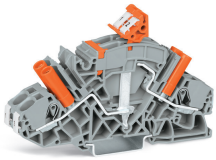

Disconnect/Test Terminal Block (Item No. 2007-8821)



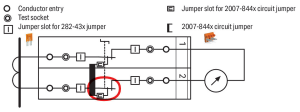
**Disconnect link in operating position I**
Terminal blocks required:
2 x disconnect/test terminal block (Item No. 2007-8821)
1 x circuit jumper, orange (Item No. 2007-8442)
Locking covers or interlocking links (option)




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.

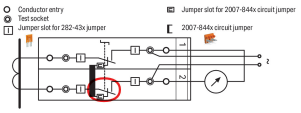


**Disconnect link in shorting position II**

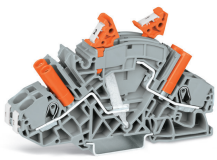



The transformer is not disconnected from the measuring device yet, the shorting path is activated by moving the disconnect link into shorting position II and the transformer is safely shorted.

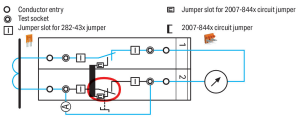
**Test current measurement: Disconnect link in measuring position III**




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.



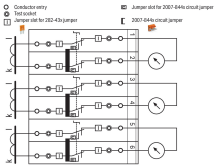
**Measurement testing (using both test sockets)**
Terminal block 1: Disconnect link in operating position I
Terminal block 2: Disconnect link in measuring position III



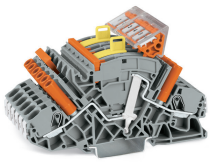

Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).

 Continued on next page

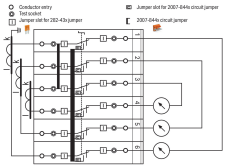
**Measuring set for a three-phase current transformer**
Terminal blocks required:
6 x disconnect/test terminal block (Item No. 2007-8821)
3 x circuit jumper, orange (Item No. 2007-8442)
In addition: interlocking link, locking cover, lock-out



Pairs of disconnect links are interconnected via locking cover or interlocking link. Measurement testing is performed after the interlocking is released.



**Measuring set for a three-phase current transformer with 'Y' point**
Terminal blocks required:
6 x disconnect/test terminal block (Item No. 2007-8821)
1 x circuit jumper, orange (Item No. 2007-8446)
1 x jumper, orange (Item No. 282-433)
In addition: interlocking link, locking cover, lock-out



All six disconnect links are interconnected via locking cover or interlocking link.

## Marking

Marking via WMB Multi markers or marking strips.