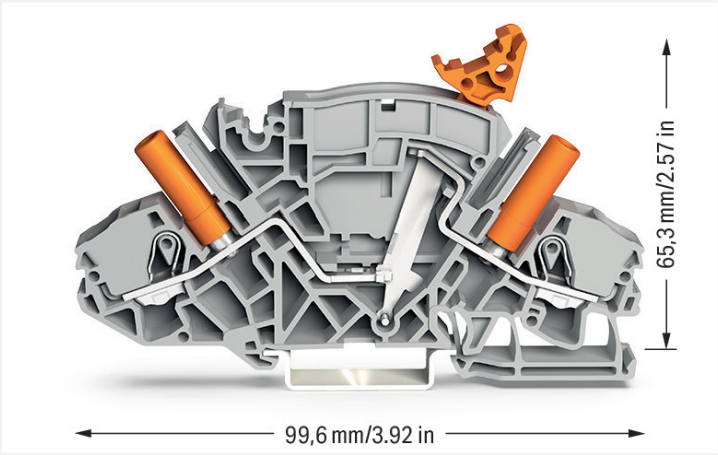
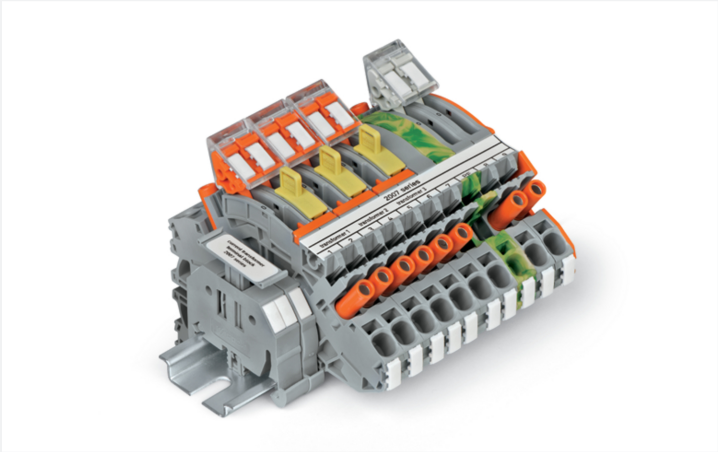
Data Sheet | Item Number: 2007-8821

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, operating tool

Fault-free electrical installations are guaranteed with this current transformer terminal block (item number 2007-8821). Strip lengths must be between 13 and 15 mm when connecting conductors to this current transformer terminal block. This product incorporates 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. Depending on the conductor type, this current transformer terminal block is ideal for conductor cross sections ranging from 0.5 mm² to 10 mm².

Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	-	-
Rated impulse withstand 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

Continued on next page

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 power loss specification	30 A
Resistance value for specified, current-dependent power loss	0.00078 Ω

General information	
Wiring direction	Front-entry wiring

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
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	0.417 MJ
Weight	27.8 g
Test socket color	orange

 Continued on next page

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
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

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

Continued on next page

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 10.0	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
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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

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	70009679
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-131652
UL UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

Approval	Standard	Certificate Name
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

 Continued on next page

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2007-8821

Documentation

Bid Text		
2007-8821	17.04.2019	xml 4.06 KB
2007-8821	17.04.2019	docx 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

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

1.2 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

Continued on next page

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.: 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

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

Continued on next page

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

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

 Continued on next page

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

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

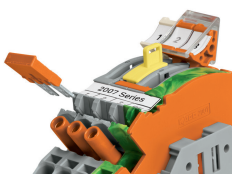
1.2.9 Tool

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.

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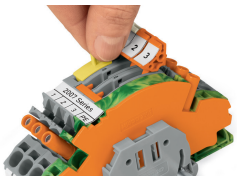
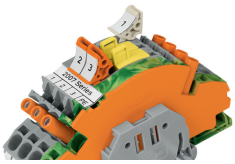


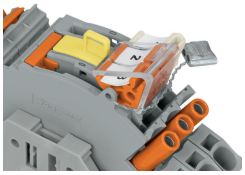
Lock-out prevents accidental operation of disconnect link.



Lock-out snaps into one of two notched positions.

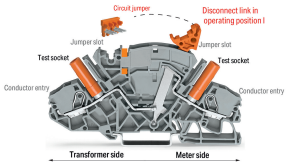
Locking system

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

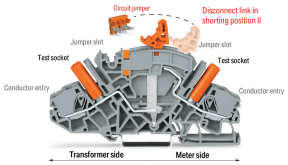


A lock-out seal can be used on the disconnect link in operating position I when combined with an end and separator plate (Item No. 2007-8893 or Item No. 2007-8894).

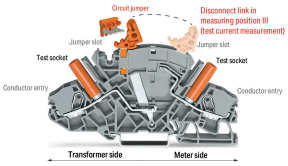
Interlocking link mechanically locks multiple links for multi-pole switching applications.



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

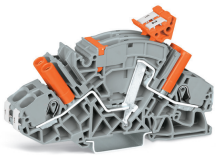


Disconnect/Test Terminal Block (Item No. 2007-8821)

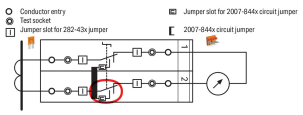


Disconnect/Test Terminal Block (Item No. 2007-8821)

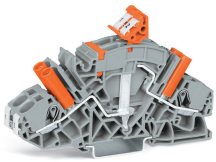
Measurement



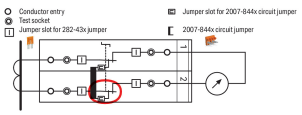
Disconnect link in operating position I
Terminal blocks required:
2 x disconnect/test terminal block (Item No. 2007-8821)
1 x circuit jumper, orange (Item No. 2007-8442)
Locking covers or interlocking links (option)



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.



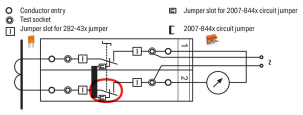
Disconnect link in shorting position II



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.

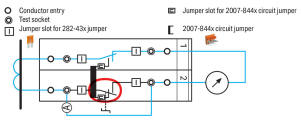
Measurement

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.

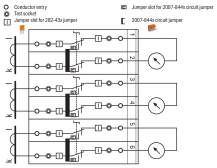
Measurement testing (using both test sockets)
Terminal block 1: Disconnect link in operating position I
Terminal block 2: Disconnect link in measuring position III



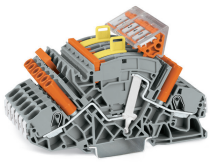
Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).

Continued on next page

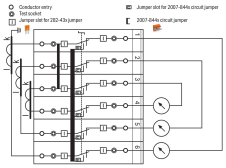
Measuring set for a three-phase current transformer
Terminal blocks required:
6 x disconnect/test terminal block (Item No. 2007-8821)
3 x circuit jumper, orange (Item No. 2007-8442)
In addition: interlocking link, locking cover, lock-out



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.