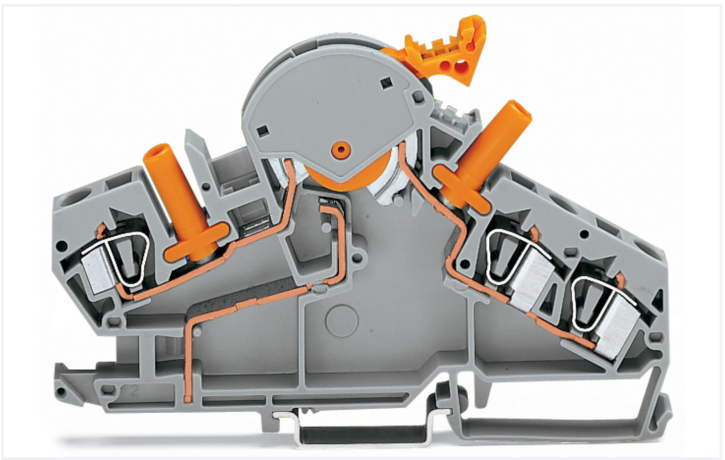
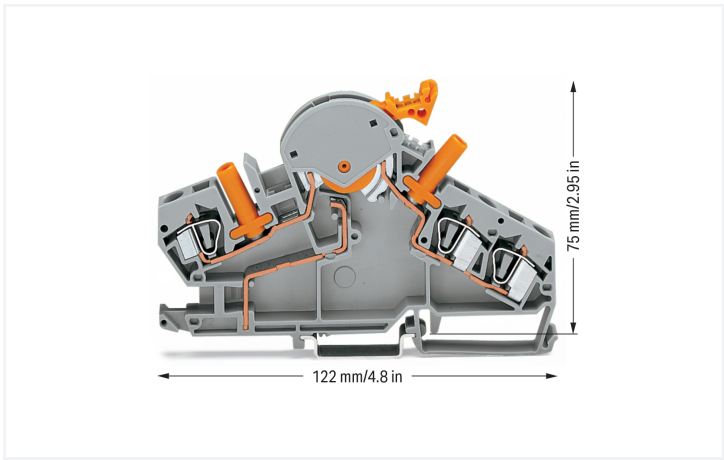


Data Sheet | Item Number: 282-870

3-conductor disconnect/test terminal block; e.g., current transformer circuits; with touch-proof test sockets; for 4 mm Ø test plugs; for DIN-rail 35 x 15 and 35 x 7.5; 6 mm²; CAGE CLAMP®; 6,00 mm²; gray

<https://www.wago.com/282-870>



Color: ■ gray

Current transformer terminal block, 282 Series, gray

Our current transformer terminal block (item number 282-870) simplifies electrical installations. Ensure that the strip lengths are between 12 and 13 mm when connecting conductors to this current transformer terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our tried-and-tested universal connection known as CAGE CLAMP® is the industry standard for connection technology and electrical interconnections. This current transformer terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 6 mm².

Electrical data			
Ratings per IEC/EN		Power Loss	
Nominal voltage (III/3)	500 V	Power loss, per pole (potential)	0.702 W
Rated impulse withstand voltage (III / 3)	6 kV	Rated current I _N for power loss specification	30 A
Rated current	30 A		
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3	Resistance value for specified, current-dependent power loss	0.00078 Ω
General information			
Wiring direction	Front-entry wiring		
Connection Data			
Clamping units	3	Connection 1	
Total number of potentials	2	Connection technology	CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	0.2 ... 6 mm² / 24 ... 10 AWG
		Fine-stranded conductor	0.2 ... 6 mm² / 24 ... 10 AWG
		Strip length	12 ... 13 mm / 0.47 ... 0.51 inches
		Wiring direction	Front-entry wiring



Physical data		
Width		8 mm / 0.315 inches
Height		122 mm / 4.803 inches
Depth from upper-edge of DIN-rail		75 mm / 2.953 inches

Mechanical data		
Design		angled
Mounting type		DIN-35 rail
Marking level		Center 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		0.68 MJ
Weight		46.7 g

Environmental requirements		
Processing temperature		-35 ... +85 °C
Continuous operating temperature		-60 ... +105 °C

Commercial data		
Product Group		1 (Rail Mounted Terminal Blocks)
PU (SPU)		20 pcs
Packaging type		Box
Country of origin		CN
GTIN		4044918692861
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 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)		8b44b459-bc8a-4294-92d0-5870e5057aca
SCIP notification number (Belgium)		0ec07c85-16be-46aa-bacb-7aa795b3c27d
SCIP notification number (Bulgaria)		00727039-2b5f-41b4-acbf-6e3db4a3f55c
SCIP notification number (Czech Republic)		db80c370-42be-4189-8e20-6174ab37eabe
SCIP notification number (Denmark)		b54720c2-5897-4e86-b89d-583df5fd522e
SCIP notification number (Finland)		7533c0d4-2854-4c74-866f-041384878e88
SCIP notification number (France)		6a8a86e8-e8e3-4d99-a667-4c388f8f0615



Environmental Product Compliance	
SCIP notification number (Germany)	c3daf65b-956e-49f3-a4c1-089f7f3965ec
SCIP notification number (Hungary)	13c0d4e3-52dc-46ea-950e-cab1a2645d03
SCIP notification number (Italy)	97c46503-1131-4e03-9d44-f21af3785992
SCIP notification number (Netherlands)	ed8acc29-fbbd-4d7b-9a32-afcb0a7225ec
SCIP notification number (Poland)	6f35dea7-095b-412e-9e05-7def11c33469
SCIP notification number (Romania)	12821fc1-b79c-476a-9ff9-67661d951494
SCIP notification number (Sweden)	ed6a607f-6da0-4d39-83de-73b6eae7552

Approvals / Certificates

General approvals

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 8027
cURus Underwriters Laboratories Inc.	UL 1059	UL-US- L45172-6187121-81704991-1
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-136074

Approval	Standard	Certificate Name
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 American Bureau of Ship- ping	EN 60947	24-0152298-PDA
BV Bureau Veritas S.A.	EN 60947	07436/G0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 282-870

↓

Documentation

Bid Text

282-870	19.02.2019	xml 3.47 KB	
282-870	02.03.2017	doc 25.00 KB	

CAD/CAE-Data

CAD data

2D/3D Models 282-870



CAE data

EPLAN Data Portal
282-870WSCAD Universe
282-870

ZUKEN Portal 282-870



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 282-392

End and separator plate; 1.5 mm thick; with lock-out seal option; gray



Item No.: 282-387

End and separator plate; 1.5 mm thick; with lock-out seal option; orange



Item No.: 282-391

End and separator plate; 1.5 mm thick; without lock-out seal option; gray



Item No.: 282-386

End and separator plate; 1.5 mm thick; without lock-out seal option; orange

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Locking system



Item No.: 282-384

Lock-out; for disconnect link; yellow

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.: 210-508

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

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



1.2.2.1 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; unslopped; according to EN 60715; silver-colored



Item No.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; according to EN 60715; silver-colored

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-262
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-264
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-266
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-267
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

1.2.4 Installation

1.2.4.1 Cover



Item No.: 709-154
Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent

1.2.4.2 Cover carrier



Item No.: 709-168
Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail-mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray

1.2.4.3 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 DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.5 Jumper

1.2.5.1 Jumper



Item No.: 282-402
Jumper; insulated; gray



Item No.: 709-110
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 282-409
Jumper; insulated; gray



Item No.: 709-111
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 282-424
Jumper; insulated; orange



Item No.: 709-112
Wire commoning chain; 2.5 mm²; insulated; black



Item No.: 282-422
Jumper; insulated; yellow-green

1.2.6 Locking system

1.2.6.1 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

1.2.7 Marking

1.2.7.1 Group marker carrier



Item No.: 209-143
Group marker carrier; gray



Item No.: 209-144
Group marker carrier; gray



Item No.: 249-105
Group marker carrier; gray

1.2.7.2 Marker



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



Item No.: 793-5501/000-014
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



Item No.: 793-5501/000-007
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



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



Item No.: 794-5553/000-002
WMB marking card; as card; MARKED; k/l (each 50); stretchable 5 - 5.2 mm; Horizontal marking; snap-on type; yellow



Item No.: 793-501/000-006
WMB marking card; as card; not stretchable; plain; snap-on type; blue



1.2.7.2 Marker



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

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 282-415
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Test and measurement

1.2.9.1 Testing accessories



Item No.: 209-170
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plugs; suitable for 1.5 mm² - 10 mm² tbs; gray

1.2.10 Tool

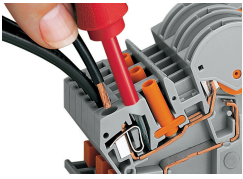
1.2.10.1 Operating tool



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

Installation Notes

Conductor termination

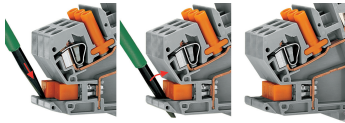


CAGE CLAMP® connection

Inserting a conductor via operating tool (5.5 x 0.8 mm blade).

Additional CAGE CLAMP® connection on the measurement device side, e.g., when connecting wire commoning chains or applying an external voltage.

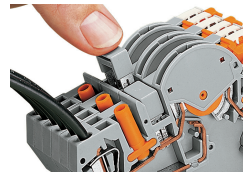
Commoning



Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.

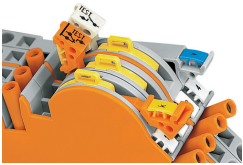


Terminal strip permanently prepared for current transformer circuits.

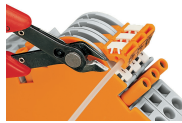


Additional commoning possible with circuit-related adjacent jumpers or testing option via test plug adapter (209-170) on transformer side.

Locking system



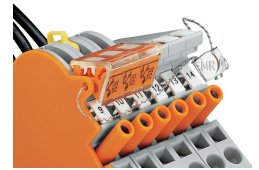
Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.



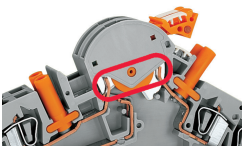
Interlocking link mechanically locks multiple links for multi-pole switching applications.



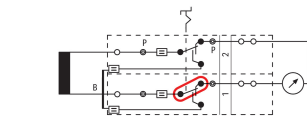
Snapping transparent locking cover onto 1-8 disconnect links:
a) Mechanically lock several links for multi-pole switching applications
b) Protect markers



A lock-out seal can be used on the disconnect link in notched "I" position.

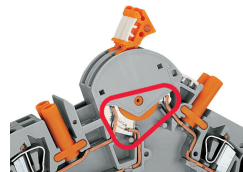


Disconnect link in notched "I" position

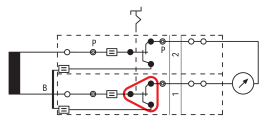


Disconnect link in notched "I" position

In "I" operating position, the measurement device is connected to the transformer. B = shorting link, P = test socket

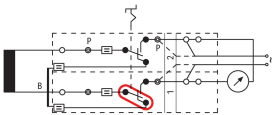
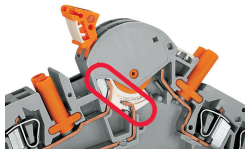


Disconnect link in transition from "I" --> "TEST" (terminal blocks 1 + 2)



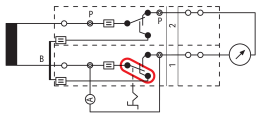
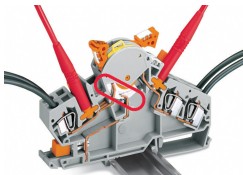
Disconnect link in transition from "I" --> "TEST" (terminal blocks 1 + 2)

The transformer is **not** disconnected from the measurement device, yet the shorting path is activated by moving disconnect link B from "I" to "TEST."
B = shorting link, P = test socket



Disconnect link in notched "TEST" position (terminal blocks 1 + 2)

Disconnect link in notched "TEST" position (terminal blocks 1 + 2)
The measurement device/relay is electrically disconnected from the transformer. In this position, if necessary, external voltage can be applied via the test socket, or the 2nd CAGE CLAMP® connection for relay testing in transformer protection circuits.
B = shorting link, P = test socket



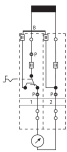
Disconnect link in notched "I" position (terminal block 2)
Disconnect link in notched "TEST" position (terminal block 1) – measurement testing

Disconnect link in notched "I" position (terminal block 2)
Disconnect link in notched "TEST" position (terminal block 1) – measurement testing
Before moving the disconnect link of terminal block 1 into the notched "TEST" position, the reference current meter must be inserted into the test socket of terminal block 1.
B = shorting link, P = test socket

Testing

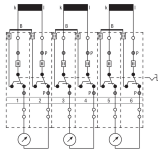
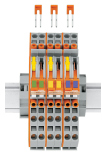


Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



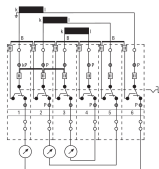
Terminal blocks required:
1 x disconnect/test terminal block (282-870)
1 x through terminal block (282-865)
1 x jumper, orange (282-424)
1 x end plate, orange (282-386)
In addition: locking cover, lock-out

Measuring set for a single-phase current transformer (without measurement testing)



Terminal blocks required:
6 x disconnect/test terminal block (282-870)
3 x jumper, orange (282-424)
3 x end plate, orange (282-386)
In addition: interlocking link, locking cover, lock-out

Measuring set for a three-phase current transformer
Pairs of disconnect links are interconnected via interlocking link or locking cover. Measurement testing is performed after the interlocking is released.
B = shorting link, P = test socket

**Terminal blocks required:**

6 x disconnect/test terminal block (282-870)

5 x jumper, orange (282-424)

2 x jumper, gray (282-402)

1 x end plate, orange (282-386)

In addition: interlocking link, locking cover, lock-out

Measuring set for a three-phase current transformer with 'Y' point

All six disconnect links are interconnected via interlocking link.

B = shorting link, P = test socket, kP = 'Y' point jumper

Marking

Labeling via WMB Multi Marking System.