

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>

**Electrical data****Ratings per IEC/EN**

Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	30 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

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

Connection points	3
Total number of potentials	2
Number of levels	1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.2 ... 6 mm ² / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 6 mm ² / 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	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.688 MJ
Weight	46.8 g

Environmental requirements

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

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7894
cURus Underwriters Laboratories Inc.	UL 1059	E45172
KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-120778

Declarations of conformity and manufacturer's declarations

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 Shipping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

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

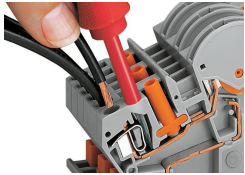
[Item No.: 282-387](#)
End and separator plate; 1.5 mm thick; with lock-out seal option; orange

[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

Installation Notes

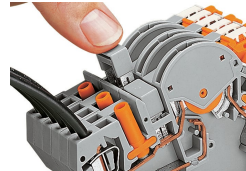
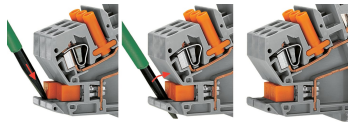
Conductor termination



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

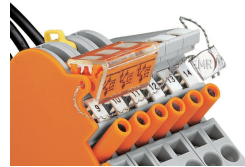
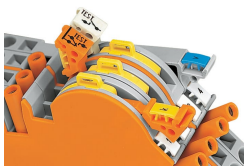


Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.

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

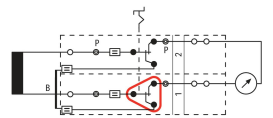
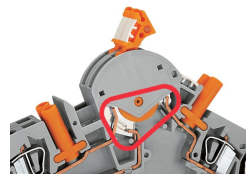
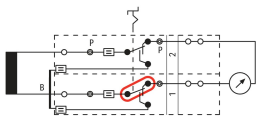
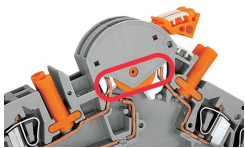


Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.

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.



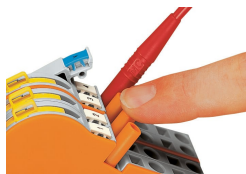
Disconnect link in notched "I" position

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

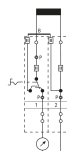
Disconnect link in transition from "I" --> "TEST" (terminal blocks 1 + 2)

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

Testing



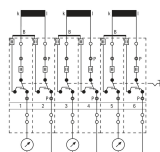
Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



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

Marking



Labeling via WMB Multi Marking System.



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