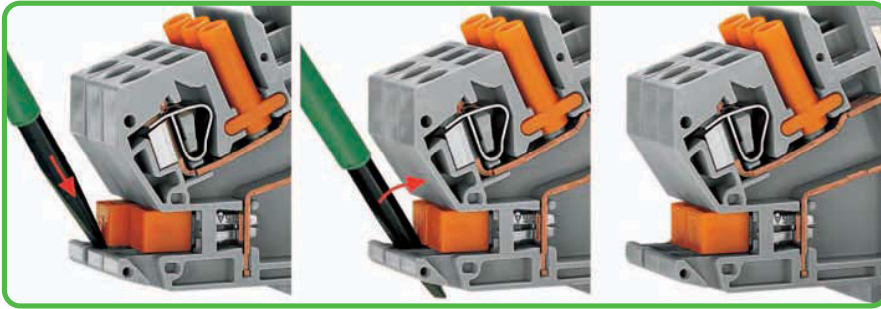


Disconnect Terminal Blocks for Test and Measurement of Transformer Circuits, 282 Series

Preparing the shorting path for the current transformer

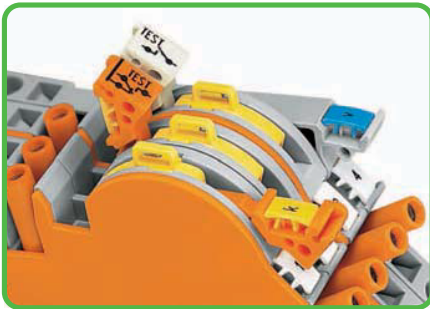


Insertion of insulated, touchproof adjacent jumpers into the protected shorting position.



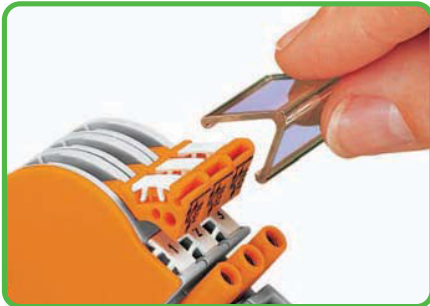
Terminal strip permanently prepared for current transformer circuits.

Lock-out

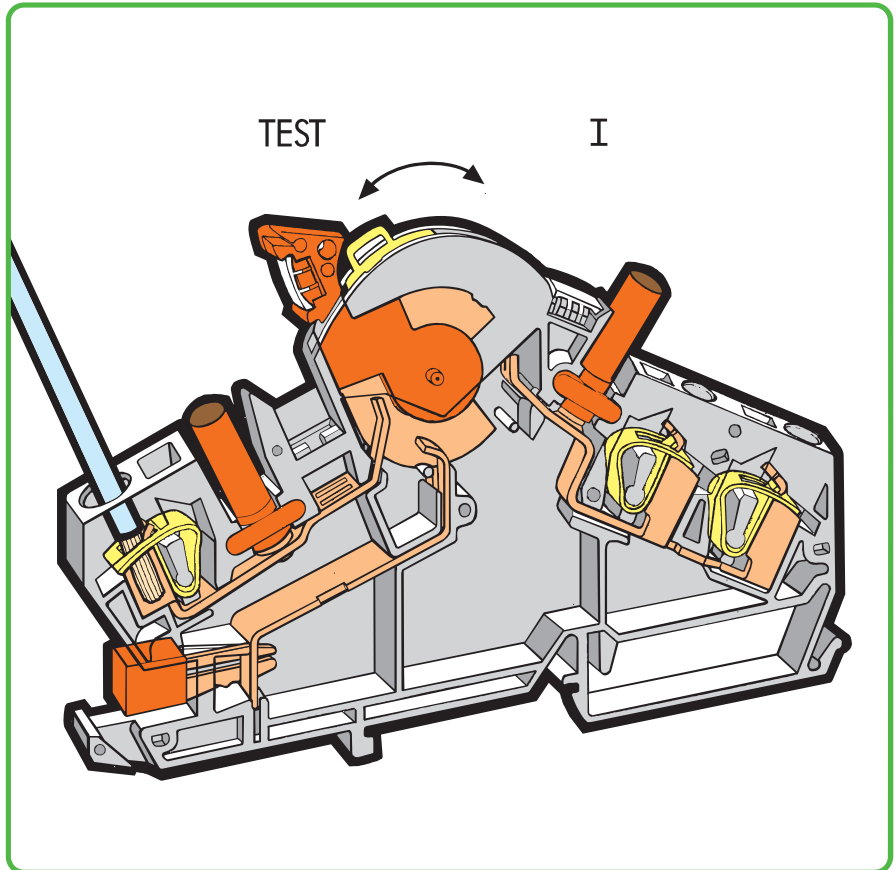


Lock-out has "snap" action into two notched positions preventing accidental operation of the disconnect link.

Locking cover for disconnect links



Transparent locking cover for 1 - 4 disconnect links can be snapped on
a) for mechanical interlocking for multipole switching
b) for protecting markers.

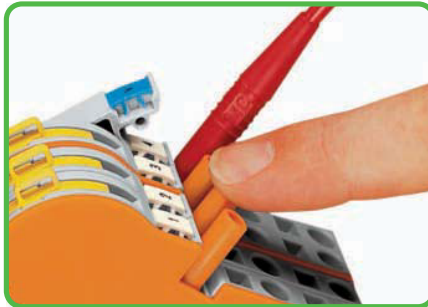


Interlocking link



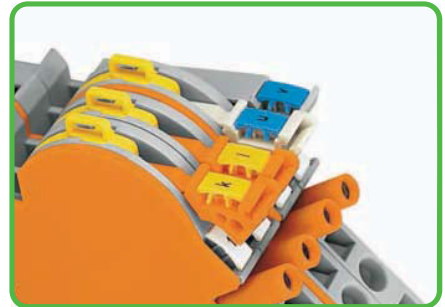
Interlocking link for mechanical interlocking of several links for multipole switching.

Touch-proof test sockets



For touch-proof test sockets 4 mm Ø, for example mfd by Multi-Contact (not offered by WAGO).

Marking



Marking with WMB Multi marking system. For other systems, see Section 13.

CAGE CLAMP® clamps the following copper conductors:^{*}
solid

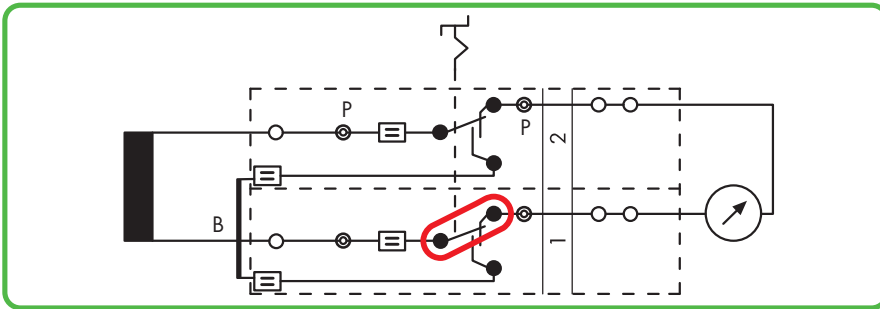
stranded

fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Section 14.

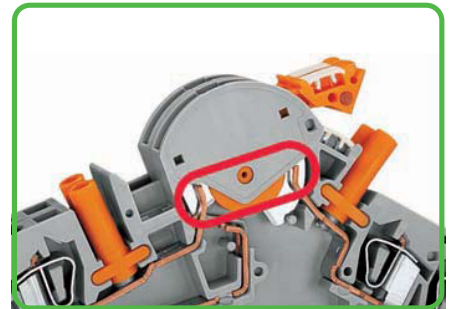
- Description and Handling -

Disconnect link in notched position "I"

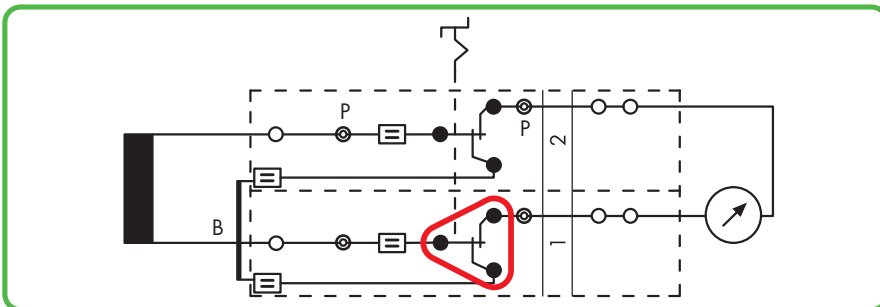


In position "I", the measuring instrument is connected to the transformer secondary.

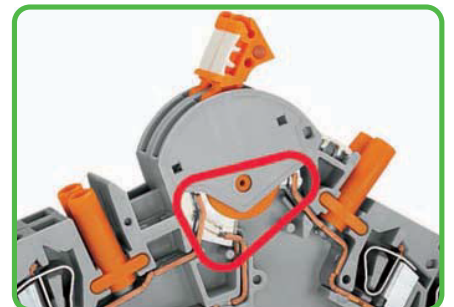
B = shorting jumper, P = test socket



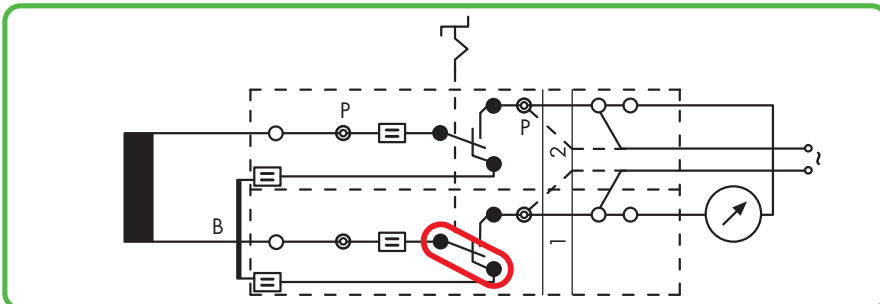
Disconnect link in transition from "I" -> "TEST" (terminal blocks 1 + 2)



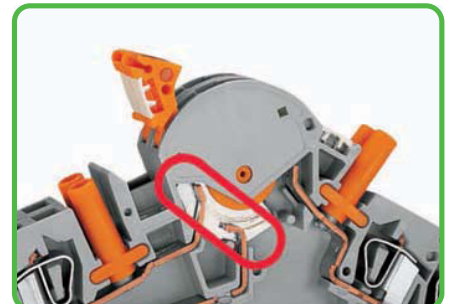
By moving the interlocked disconnect links from "I" to "TEST" the shunting path is activated without disconnection of the measuring instrument yet.



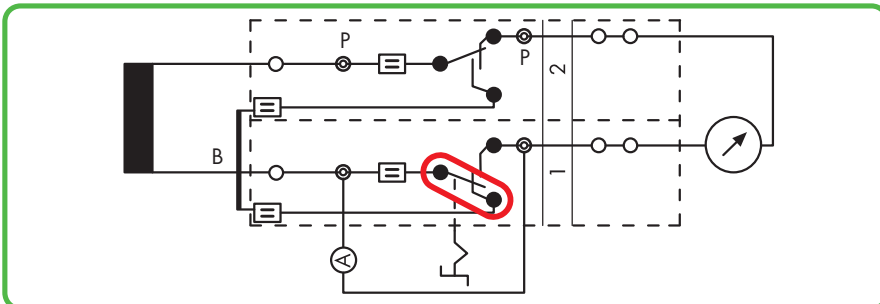
Disconnect link in notched position "TEST" (terminal blocks 1 + 2)



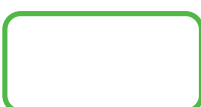
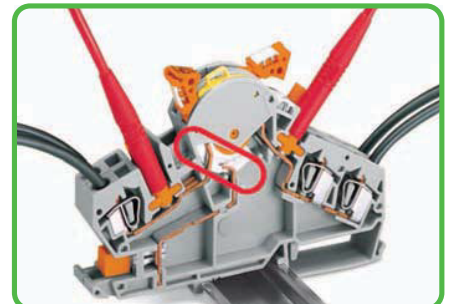
The measuring instrument is electrically disconnected from the transformer. In this position, if necessary, external voltage can be applied via sockets, or the 2nd CAGE CLAMP® connection for relay testing in transformer protection circuits.



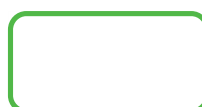
Disconnect link in notched position "I" (terminal block 2) Disconnect link in notched position "TEST" (terminal block 1)



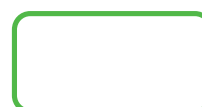
Measurement testing. Before moving the disconnect link of terminal block 1 into the notched position "TEST", the reference current meter must be inserted into the test socket of terminal block 1.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule ①
(gas-tight crimped)

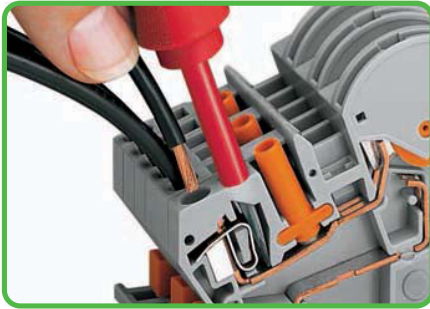


fine-stranded,
with pin terminal
(gas-tight crimped)

① When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

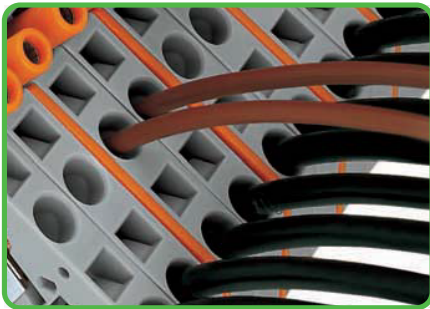
Circuit Configuration Examples

CAGE CLAMP® connection



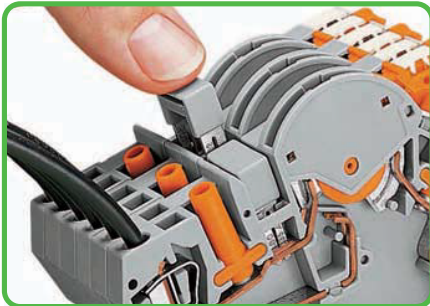
Conductor termination with operating tool (5.5 x 0.8) mm

Additional CAGE CLAMP® connection



Additional CAGE CLAMP® connection on the side of the measuring instrument. For example: connecting wire commoning chains or applying an external voltage.

Commoning



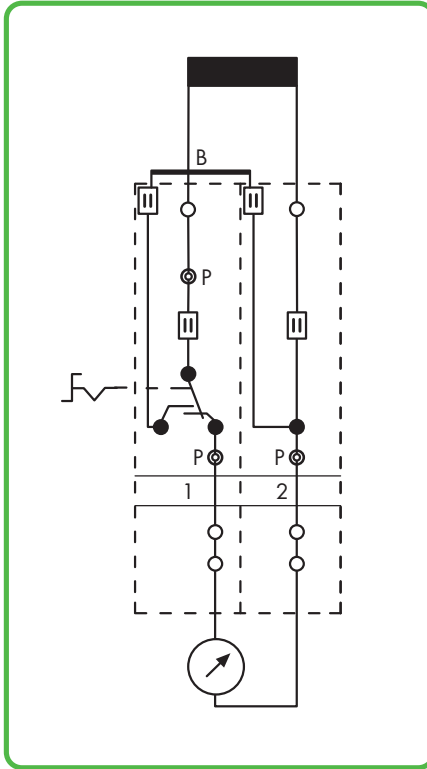
Additional commoning possible with adjacent jumper or testing option via 209-170 test plug adapter on transformer side.

Lock-out seal



A lock-out seal can be used on the disconnect link in notched position "1".

Measuring set for a single-phase current transformer

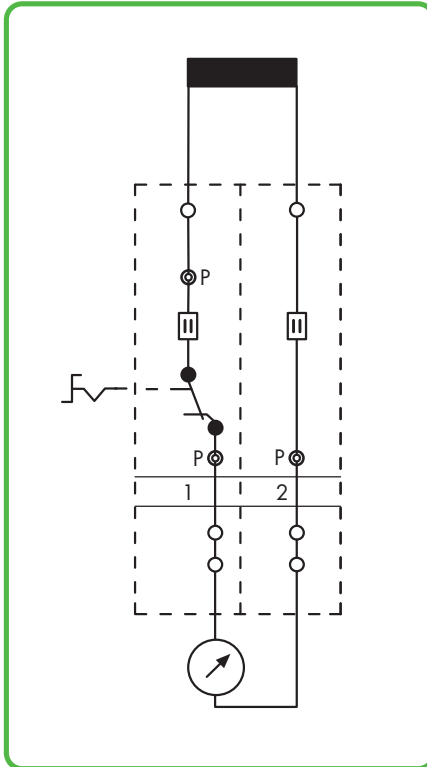


(without measurement testing)



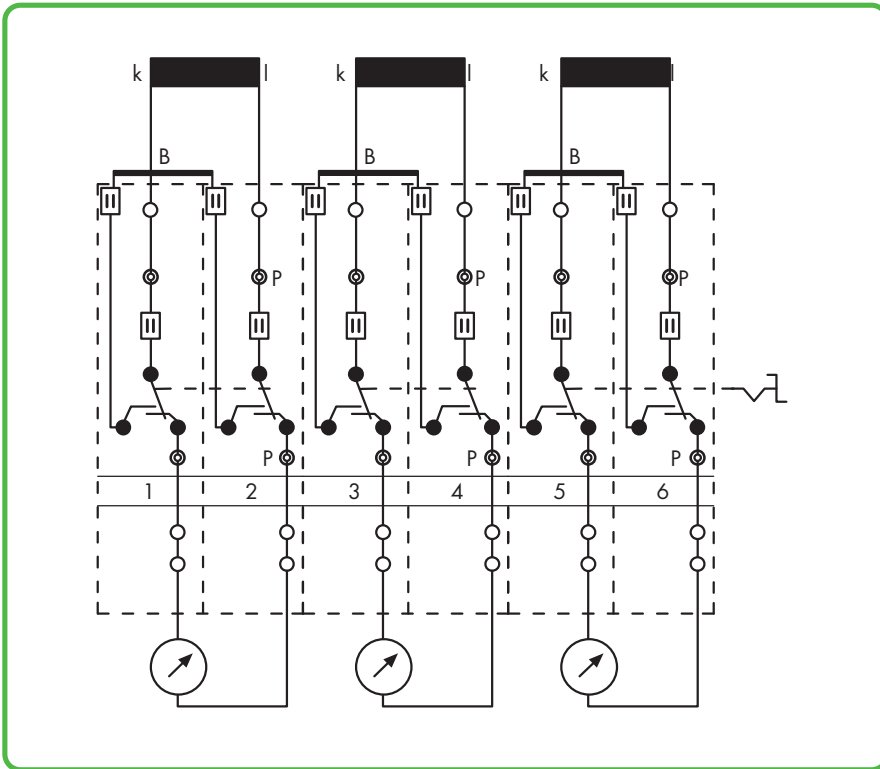
Terminal blocks required:
 1 x disconnect/test terminal block 282-870
 1 x through terminal block 282-865
 1 x jumper, orange 282-424
 1 x end plate, orange 282-386
 in addition locking cover, lock-out

Measuring set for a single-phase voltage transformer



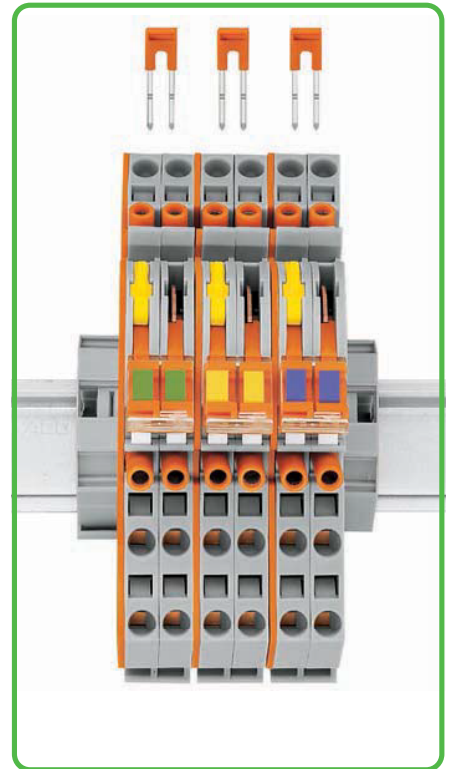
Terminal blocks required:
 1 x disconnect/test terminal block 282-860
 1 x through terminal block 282-866
 1 x jumper, orange 282-424
 1 x end plate, orange 282-386
 in addition locking cover, lock-out

Measuring set for a 3-phase current transformer



Pairs of disconnect links are interlocked by locking covers.
After the interlocking has been released, testing of the measured value is also possible.

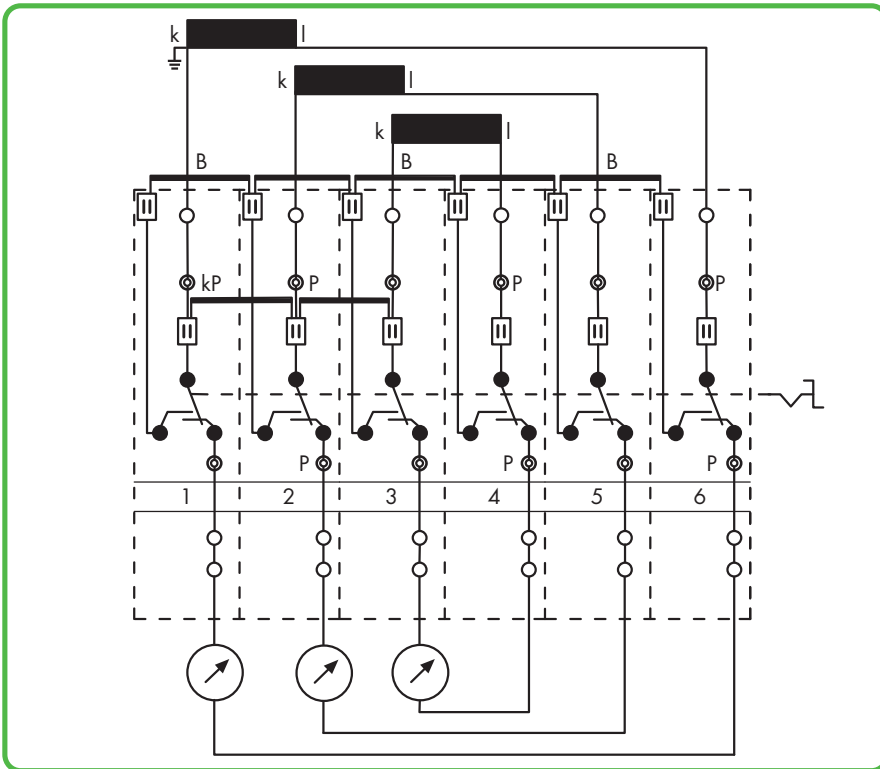
B = shorting jumper, P = test socket



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 locking links, locking covers, lock-outs

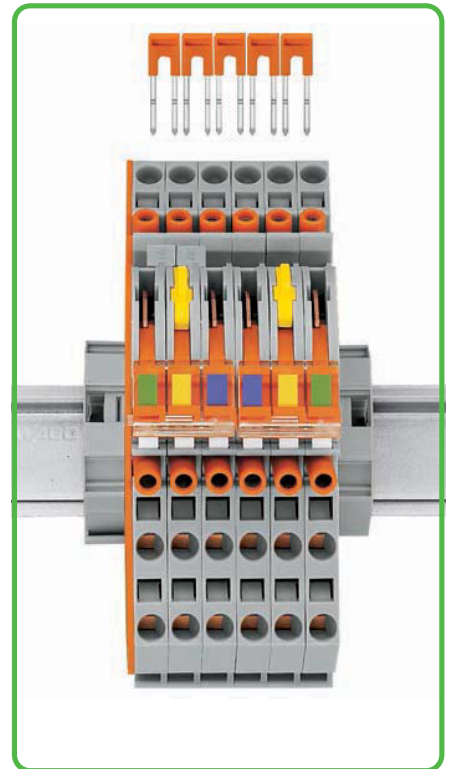
3

Measuring set for a 3-phase current transformer with 'Y' point



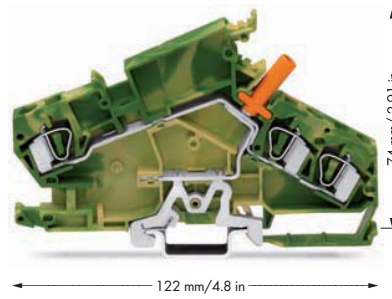
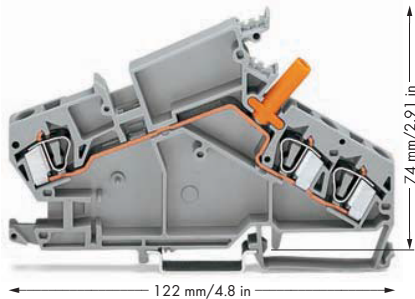
All 6 disconnect links are interlocked by the interlocking link.

kP = 'Y' point jumpers



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 locking links, locking covers, lock-outs

0.2 - 6 mm ² 500 V/6 kV/3 ① I _N 30 A	AWG 24 - 10 600 V, 30 A ② 300 V, 5 A ③	0.2 - 6 mm ² AWG 24 - 10	
Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in ②		Terminal block width 8 mm / 0.315 in 12 - 13 mm / 0.49 in ②	



- ① 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- ② Strip length, see packaging or instructions.
- ③ Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 in
- ④ For operating stickers, please refer to our online catalog:
for 282-870: Item No. 210-412
for 282-865: Item No. 210-415
for 282-860: Item No. 210-414
for 282-866: Item No. 210-413



Item No.	Pack. Unit	Item No.	Pack. Unit	282 Series Accessories
Through terminal block, e.g., voltage transformer circuits, with touch-proof test socket		Ground terminal block, e.g., voltage transformer circuits, with touch-proof test socket		Appropriate marking systems (see Section 13)
○ gray	282-866 ④ 20	● green-yellow	282-868 ④ 20	Adjacent jumper, insulated, I _N 41 A gray 282-402 100 (4x25)
Item-Specific Accessories		Item-Specific Accessories		Alternate jumper, insulated, I _N 41 A gray 282-409 100 (4x25)
End and separator plate, 1.5 mm thick orange 282-385 50 (5x10) gray 282-390 50 (5x10)		End and separator plate, 1.5 mm thick orange 282-385 50 (5x10) gray 282-390 50 (5x10)		Protective warning marker, with high-voltage symbol, black, for 5 terminal blocks yellow 282-415 100 (4x25)
WMB Multi marking system, 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm, blue U/V (50x) 794-5554/000-006 5				Wire commoning chain, 4 connections, 3 x 110 mm, insulated, I _N 24 A black 709-110 1
				Wire commoning chain, 3 connections, 2 x 120 mm, insulated, I _N 24 A black 709-111 1
				Wire commoning chain, 3 connections, 2 x 170 mm, insulated, I _N 24 A black 709-112 1
				Group marker carrier, e.g., for 282 Series transformer terminal blocks, angled gray 209-144 50 (2x25)
				WMB Multi marking system, 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm plain 793-501 5
				WMB Multi marking system, plain, 10 strips with 10 markers per card, for terminal widths 5 - 17.5 mm yellow 793-501/000-002 red 793-501/000-005 blue 793-501/000-006 gray 793-501/000-007 orange 793-501/000-012 light green 793-501/000-017 green 793-501/000-023 violet 793-501/000-024 5