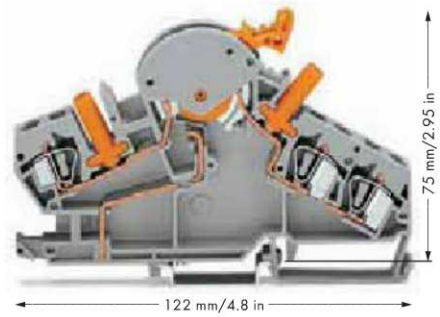
Disconnect Terminal Blocks for Test and Measurement, 6 mm²/30 A, Through Terminal Blocks for Current and Voltage Transformer Circuits

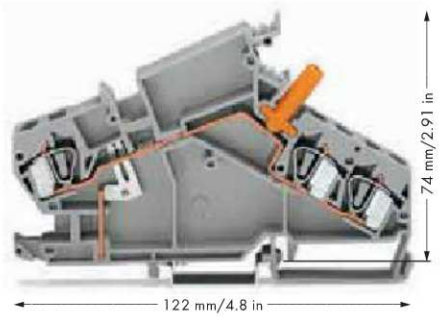
0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 30 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷



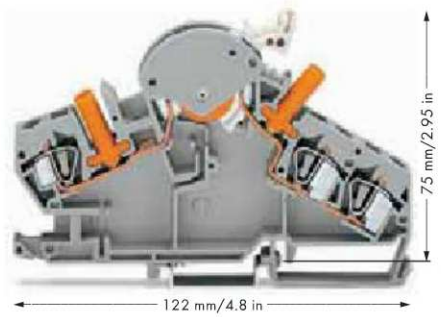
0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷



0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷



	Item No.	Pack. Unit
Disconnect terminal block for test and measurement, e.g., current transformer circuits, with touch-proof test plugs, orange disconnect link		
gray	**282-870** ❸ ❹	20

	Item No.	Pack. Unit
Through terminal block, e.g., current transformer circuits, with touch-proof test plug		
gray	**282-865** ❹	20

	Item No.	Pack. Unit
Disconnect terminal block for test and measurement, e.g., for potential transformer switch, with touch-proof test plugs, disconnect link, light gray		
gray	**282-860** ❸ ❹	20

Item-Specific Accessories

	Item No.	Pack. Unit
End and separator plate, 1.5 mm thick, without use of lock-out seal		
orange	**282-386**	50 (5x10)
gray	**282-391**	50 (5x10)
End and separator plate, 1.5 mm thick, for use of lock-out seal		
orange	**282-387**	50 (5x10)
gray	**282-392**	50 (5x10)
Lock-out device, for disconnect link		
yellow	**282-384**	100 (5x20)
Locking cover, transparent, mechanically locks multiple links		
1-pole	**282-881**	50 (5x10)
2-pole	**282-882**	50 (5x10)
3-pole	**282-883**	50 (5x10)
4-pole	**282-884**	50 (5x10)
5-pole	**282-885**	50 (5x10)
6-pole	**282-886**	50 (5x10)
7-pole	**282-887**	50 (5x10)
8-pole	**282-888**	50 (5x10)
Connecting strip, for connecting links or fuse holders, 1 m/3'3" long		
transparent	**210-254**	1
Adjacent jumper, insulated, I_N 41 A		
orange	**282-424**	100 (4x25)
WMB Multi marking system, 10 strips with 10 markers per card, for 5 - 17.5 mm width, yellow		
K/L (each 50x)	**794-5553/000-002**	5

Item-Specific Accessories

	Item No.	Pack. Unit
End and separator plate, 1.5 mm thick		
orange	**282-385**	50 (5x10)
gray	**282-390**	50 (5x10)
WMB Multi marking system, 10 strips with 10 markers per card, for 5 - 17.5 mm width, yellow		
K/L (each 50x)	**794-5553/000-002**	5

Item-Specific Accessories

	Item No.	Pack. Unit
End and separator plate, 1.5 mm thick, without use of lock-out seal		
orange	**282-386**	50 (5x10)
gray	**282-391**	50 (5x10)
End and separator plate, 1.5 mm thick, for use of lock-out seal		
orange	**282-387**	50 (5x10)
gray	**282-392**	50 (5x10)
Lock-out device, for disconnect link		
yellow	**282-384**	100 (5x20)
Locking cover, transparent, mechanically locks multiple links		
1-pole	**282-881**	50 (5x10)
2-pole	**282-882**	50 (5x10)
3-pole	**282-883**	50 (5x10)
4-pole	**282-884**	50 (5x10)
5-pole	**282-885**	50 (5x10)
6-pole	**282-886**	50 (5x10)
7-pole	**282-887**	50 (5x10)
8-pole	**282-888**	50 (5x10)
Connecting strip, for connecting links or fuse holders, 1 m/3'3" long		
transparent	**210-254**	1
WMB Multi marking system, 10 strips with 10 markers per card, for 5 - 17.5 mm width, blue		
U/V (each 50x)	**794-5554/000-006**	5

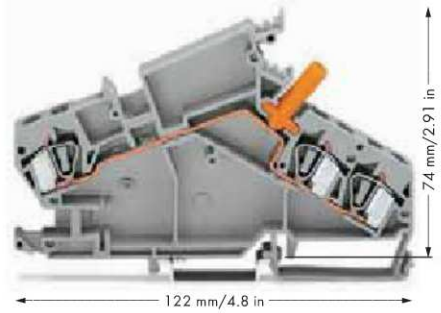
For list of approvals and user guide, see pages 540 and 542.

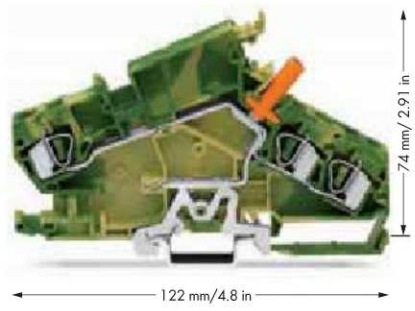
0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 3 A
I_N 30 A	300 V, 5 A

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷

0.2 - 6 mm²	AWG 24 - 10

Terminal block width 8 mm / 0.315 in
12 - 13 mm / 0.49 in ❷





❶ 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 in

❹ 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
Through terminal block,		
e.g., for potential transformer switch,		
with touch-proof test plug		
gray	**282-866** ❹	20

Item No.		Pack. Unit
Ground terminal block,		
e.g., for potential transformer switch,		
with touch-proof test plug		
green-yellow	**282-868** ❹	20

Item-Specific Accessories

End and separator plate,

1.5 mm thick

orange	**282-385**	50 (5x10)
gray	**282-390**	50 (5x10)

WMB Multi marking system,

10 strips with 10 markers per card,
for 5 - 17.5 mm width,
blue
U/V (each 50x) **794-5554/000-006**
5

Item-Specific Accessories

End and separator plate,

1.5 mm thick

orange	**282-385**	50 (5x10)
gray	**282-390**	50 (5x10)

282 Series Accessories

Appropriate marking systems
(see Section 13)

Adjacent jumper, insulated,

I_N 41 A

gray	**282-402**	100 (4x25)

Alternate jumper, insulated,

I_N 41 A

gray	**282-409**	100 (4x25)

Protective warning marker,

with high-voltage symbol, black,
for 5 terminal blocks

yellow	**282-415**	100 (4x25)

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 5 - 17.5 mm width

plain	**793-501**	5

WMB Multi marking system, plain,

10 strips with 10 markers per card,
for 5 - 17.5 mm width

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**

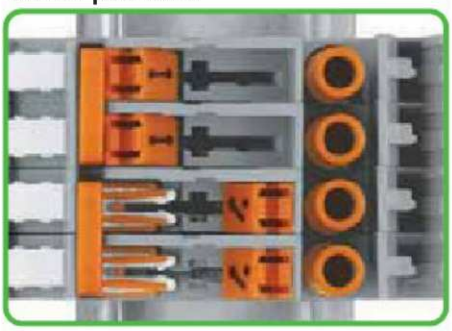
5

Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks, 282 Series – Description and Handling –

Commoning

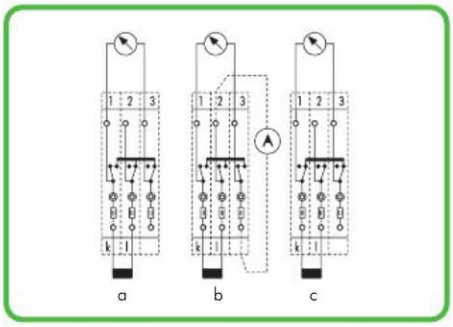
Transverse switching terminal blocks
Left: Adjacent jumper for commoning of switching lever
Right: Commoning with orange jumper

Switch positions



Left: closed
Right: open

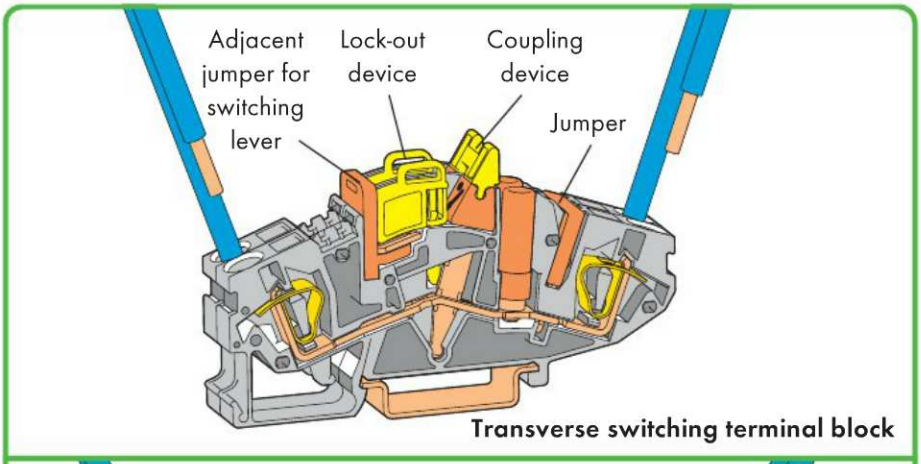
Current transformer circuit



via transverse switching terminal blocks
a = Normal operation **b** = Measured value test
c = Transformer short-circuit

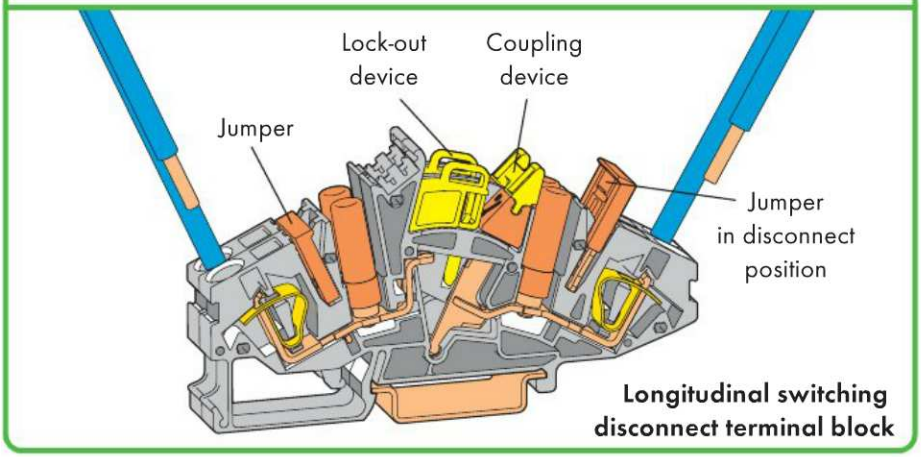
Testing

Testing with touchproof test plugs 4 mm Ø.
(not offered by WAGO)
e.g., mfd by Multi-Contact Deutschland GmbH



CAGE CLAMP® connection

Conductor termination



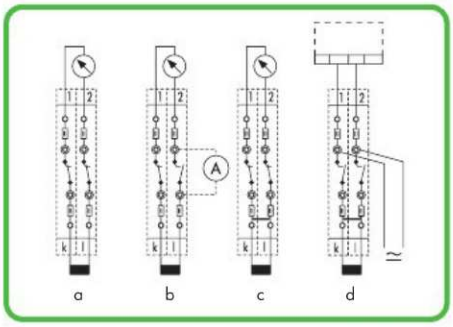
Lock-out

Inserting lock-out device

Commoning

Longitudinal switching disconnect terminal blocks

Current transformer circuit



via longitudinal switching disconnect terminal blocks
a = Normal operation **b** = Measured value test
c = Transformer short-circuit **d** = Relay test

CAGE CLAMP® clamps the following copper conductors:*

solid	stranded	fine-stranded, also with tinned single strand	fine-stranded, tip bonded	fine-stranded, with ferrule ❶ (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

* For aluminum conductors, see notes in Section 14.

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

Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks 6 mm², 282 Series e.g., Current Transformer Circuits

0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width 8 mm / 0.315 in	
12 - 13 mm / 0.49 in ❷	

0.2 - 6 mm²	AWG 24 - 10
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width 8 mm / 0.315 in	
12 - 13 mm / 0.49 in ❷	

❶ 500 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.

❸ Max. height when rotating the disconnect link (incl. locking cover): 45 mm/1.77 in
For operating stickers, please refer to our online catalog:
for 282-811: Item No. 210-424
for 282-821: Item No. 210-423

	Item No.	Pack. Unit
2-conductor transverse switching terminal block, with touch-proof test plug, for test plug 4 mm Ø		
gray	**282-811** ❸	20
2-conductor through terminal block, with touch-proof test plugs		
gray	**282-841**	20
2-conductor through terminal block, without test sockets		
gray	**282-841/049-000**	20

	Item No.	Pack. Unit
2-conductor longitudinal switching terminal block, with touch-proof test plug, for test plug 4 mm Ø		
gray	**282-821** ❸	20

Item-Specific Accessories

End and separator plate,

1.5 mm thick		
orange	**282-366**	50 (5x10)
gray	**282-361**	50 (5x10)

Adjacent jumper for switching lever, insulated,

orange, I_N 30 A		
2-way	**282-442**	50 (5x10)
3-way	**282-443**	50 (5x10)
4-way	**282-444**	50 (5x10)
5-way	**282-445**	50 (5x10)
6-way	**282-446**	50 (5x10)

Item-Specific Accessories

End and separator plate,

1.5 mm thick		
orange	**282-365**	50 (5x10)
gray	**282-360**	50 (5x10)

Accessories

Appropriate marking system: WMB/Mini-WSB
(see Section 13)

Lock-out device,

for disconnect link		
yellow	**282-370**	100 (4x25)

Coupling device,

mechanically locks multiple links, yellow		
2-way	**282-372**	50 (5x10)
3-way	**282-373**	50 (5x10)
4-way	**282-374**	50 (5x10)

Jumper, special design,

I_N 30 A, orange		
3-way, 1-3-5	**282-435/011-000**	
4-way, 1-3-5-7	**282-437/011-000**	50 (5x10)

Protective warning marker,

with high-voltage symbol, black, for 5 terminal blocks		
yellow	**282-415**	100 (4x25)

Jumper, insulated,

I_N 30 A, orange		
2-way	**282-432**	50 (5x10)
3-way	**282-433**	50 (5x10)
4-way	**282-434**	50 (5x10)
5-way	**282-435**	50 (5x10)
6-way	**282-436**	50 (5x10)
7-way	**282-437**	50 (5x10)
8-way	**282-438**	50 (5x10)
9-way	**282-439**	50 (5x10)
10-way	**282-440**	50 (5x10)

282 Series Accessories

Appropriate marking systems:
WMB/Miniature WSB

Collective carrier for jumpers,

for jumpers for transverse switing terminal block (282-811) and longitudinal switing disconnect terminal block (282-821)		
gray	**282-369**	25

WMB Multi marking system,

10 strips with 10 markers per card, for 5 - 17.5 mm width, yellow		
K/L (each 50x)	**794-5553/000-002**	5

WMB Multi marking system,

10 strips with 10 markers per card, for 5 - 17.5 mm width, blue		
U/V (each 50x)	**794-5554/000-006**	5

Screwless end stop,

for DIN 35 rail, 6 mm/0.236 in wide		
gray	**249-116**	100 (4x25)

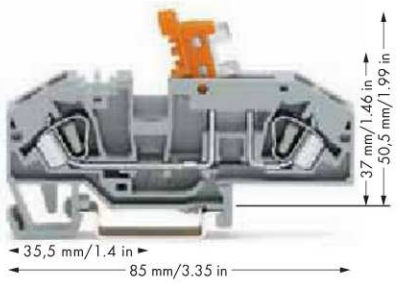
Screwless end stop,

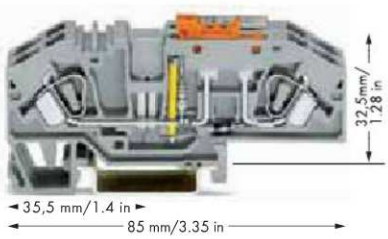
for DIN 35 rail, 10 mm/0.394 in wide		
gray	**249-117**	50 (2x25)

For list of approvals and user guide, see pages 540 and 542.

Disconnect and Ground Conductor Disconnect Terminal Blocks 6 mm²/30 A and Through Terminal Blocks of Same Profile 282 Series

0.2 - 6 mm²	AWG 24 - 10	0.2 - 6 mm²	AWG 24 - 10	0.2 - 6 mm²	AWG 24 - 10
400 V/6 kV/3 ❶	600 V, 30 A	800 V/8 kV/3 ❶	600 V, 30 A		
I_N 30 A	300 V, 36 A	I_N 41 A	600 V, 40 A		
Terminal block width 8 mm / 0.315 in		Terminal block width 8 mm / 0.315 in		Terminal block width 16 mm / 0.63 in	
12 - 13 mm / 0.49 in ❷		12 - 13 mm / 0.49 in ❷		12 - 13 mm / 0.49 in ❷	





Item No.		Pack. Unit
2-conductor disconnect terminal block,		
with test point,		
orange disconnect link		
gray	**282-697**	25
blue	**282-695**	25
Other terminal blocks with the same profile:		
Through	**282-699**	Page 178

Item No.		Pack. Unit
3-conductor through terminal block,		
with test point,		
same profile as disconnect terminal blocks		
gray	**282-699**	25
blue	**282-694**	25
Other terminal blocks with the same profile:		
Disconnect	**282-697**	Page 178
Ground cond. disc.	**282-640**	Page 178
Fuse	**282-696**	Page 180

Item No.		Pack. Unit
Ground conductor disconnect terminal block,		
with test point,		
orange disconnect link, gray		
AC/DC 24 V	**282-640**	12
AC/DC 48 V	**282-641**	12
AC/DC 120 V	**282-638**	12
AC/DC 230 V	**282-639**	12
Other terminal blocks with the same profile:		
Through	**282-699**	Page 178

Item-Specific Accessories

Adjacent jumper, insulated,

I_N 41 A

gray	**282-402**	100 (4x25)

Alternate jumper, insulated,

I_N 41 A

gray	**282-409**	100 (4x25)

Test plug adapter, 8 mm wide,

for terminal blocks 1.5 - 10 mm²,
for test plug 4 mm Ø

gray	**209-170**	50 (2x25)

Item-Specific Accessories

Adjacent jumper, insulated,

I_N 41 A

gray	**282-402**	100 (4x25)

Alternate jumper, insulated,

I_N 41 A

gray	**282-409**	100 (4x25)

Test plug adapter, 8 mm wide,

for terminal blocks 1.5 - 10 mm²,
for test plug 4 mm Ø

gray	**209-170**	50 (2x25)

Accessories

Appropriate marking system: WMB
(see Section 13)

End plate, 2 mm thick

orange	**282-333**	100 (4x25)
gray	**282-334**	100 (4x25)

Protective warning marker,

with high-voltage symbol, black,
for 5 terminal blocks

yellow	**282-405**	100 (4x25)

Screwless end stop,

for DIN 35 rail,
6 mm/0.236 in wide

gray	**249-116**	100 (4x25)

Screwless end stop,

for DIN 35 rail,
10 mm/0.394 in wide

gray	**249-117**	50 (2x25)

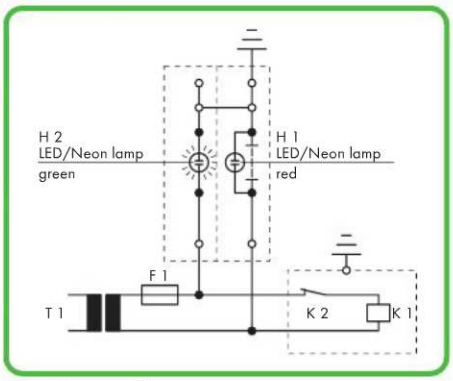
For list of approvals and user guide, see pages 540 and 542.

Disconnect and Ground Conductor Disconnect Terminal Blocks

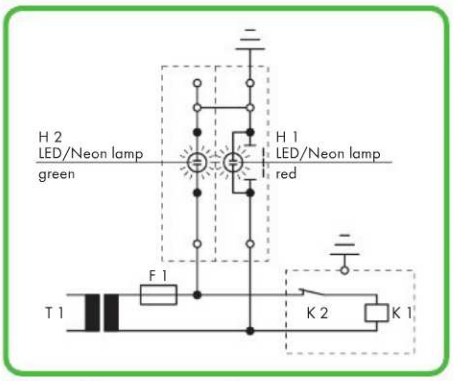
Ground conductor disconnect terminal block – top view

❶ 400 V/800 V = rated voltage
6 kV/8 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

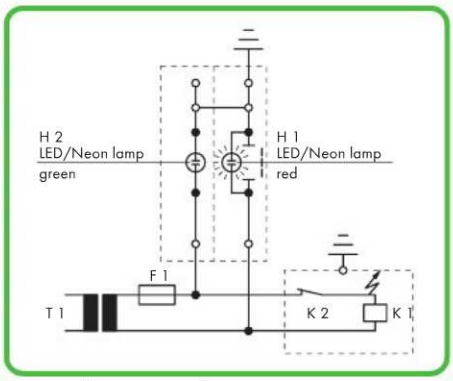
❷ Strip length, see packaging or instructions.



Operating condition
Slide link closed, auxiliary circuit grounded, green lamp illuminates.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red lamp illuminates.

Testing via conductor entry . . .

. . . or jumper contact position in current bar.

Supply via disconnect. All-pole disconnection of the commoned fuse terminal blocks.

IEC 60204/DIN VDE 0113 "Electrical equipment of industrial machines, part 1: General requirements" 9.4.3.1:

Ground faults on control circuits shall not cause unintentional starting, hazardous movements, or prevent stopping of the machine.
In order to fulfill this requirement, bonding to the protective bonding circuit shall be provided in accordance with 8.2 and the devices shall be connected as described in 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit shall be provided with an insulation monitoring device (e.g., residual current device) which either indicates an ground fault or interrupts the circuit automatically after an ground fault.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons electronic circuits cannot be connected to the protective bonding circuit, other measures shall be taken to achieve the same level of safety.

Where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance, multipole control switches which interrupt all live conductors shall be used for start or stop of those machine functions, which can cause a hazardous condition or damage to the machine or to the work in progress, in the event of unintentional starting or failure to stop.