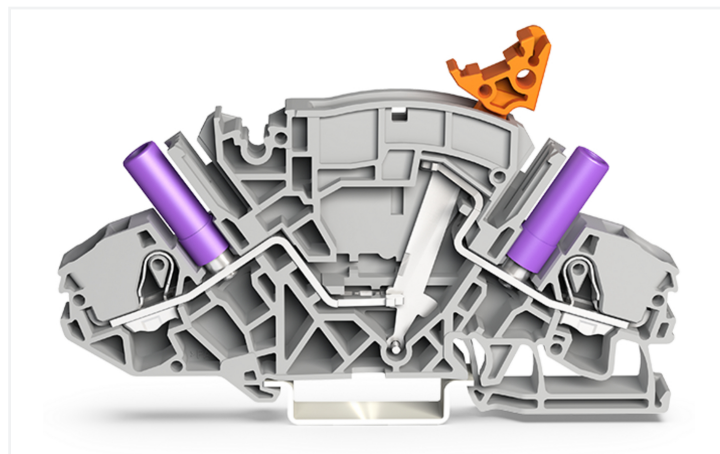
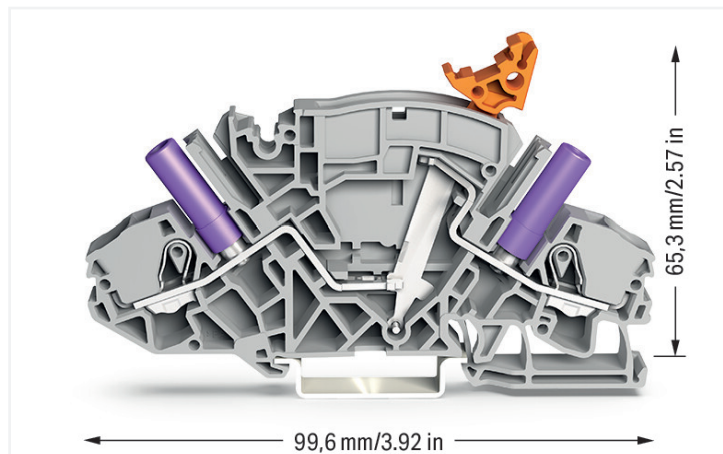


## Data Sheet | Item Number: 2007-8821/045-000

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 mm<sup>2</sup>; Push-in CAGE CLAMP®; 6,00 mm<sup>2</sup>; gray

<https://www.wago.com/2007-8821/045-000>



Color: ■ gray

Current transformer terminal block, 2007 Series, operating tool

Effortless electrical installations are guaranteed with this current transformer terminal block (item number 2007-8821/045-000). Strip lengths must be between 13 and 15 mm when connecting conductors to this current transformer terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. 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 type of conductor, this current transformer terminal block is ideal for conductor cross sections ranging from 0.5 mm<sup>2</sup> to 10 mm<sup>2</sup>.

### 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

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 mm <sup>2</sup> / 10 AWG
Solid conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Solid conductor; push-in termination	1 ... 10 mm <sup>2</sup> / 14 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 6 mm <sup>2</sup> / 16 ... 10 AWG
Fine-stranded conductor; with ferrule; push-in termination	2.5 ... 6 mm <sup>2</sup> / 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)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.42 MJ
Weight	27.8 g
Test socket color	purple

## 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	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.

### Environmental Testing

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	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
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

PU (SPU)	20 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143300254
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)	b926cb99-a36a-46b9-9f96-1254d5ddc20f
SCIP notification number (Belgium)	9764d7e9-f141-4c40-8b63-86aae4d064cf
SCIP notification number (Bulgaria)	0167f923-2824-4f53-8d64-83cbf61b0fa2
SCIP notification number (Czech Republic)	e84464af-2932-4cd5-9a7a-33d2ed127402
SCIP notification number (Denmark)	b710d1cd-0cbe-4a16-8b4c-b4645c6dc343
SCIP notification number (Finland)	1eb93408-1147-4951-adab-f7ef26aef212
SCIP notification number (France)	c335265a-c466-4410-8252-8a96037e4a95

**Environmental Product Compliance**

SCIP notification number (Germany)	ab7eb74b-5bed-42ae-84f8-fd014425dbee
SCIP notification number (Hungary)	d0d9abd6-2d25-4df5-a76d-ac2cf5979326
SCIP notification number (Italy)	23ea90e6-f373-48ff-93b1-93e8730cf9e6
SCIP notification number (Netherlands)	164ebbc1-344a-4309-91ed-7c4ddfd5bf38
SCIP notification number (Poland)	34a7864c-4ae4-4a1c-9d6a-118a457d1b77
SCIP notification number (Romania)	1f162f9d-83af-4d9e-85bf-cacac8175b02
SCIP notification number (Sweden)	26e43214-8cea-4020-b1e4-07aa0139d467

**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 Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Railway Ready
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

**Approvals for marine applications**



Approval	Standard	Certificate Name
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 2007-8821/045-000	↓
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## CAD/CAE-Data

CAD data	CAE data
<a href="#">2D/3D Models</a> 2007-8821/045-000	<a href="#">EPLAN Data Portal</a> 2007-8821/045-000
	<a href="#">WSCAD Universe</a> 2007-8821/045-000
	<a href="#">ZUKEN Portal</a> 2007-8821/045-000

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate



<a href="#">Item No.: 2007-8893</a> End plate; 1.5 mm thick; with lock-out seal option; gray	<a href="#">Item No.: 2007-8894</a> End plate; 1.5 mm thick; with lock-out seal option; orange	<a href="#">Item No.: 2007-8891</a> End plate; 1.5 mm thick; without lock-out seal option; gray	<a href="#">Item No.: 2007-8892</a> End plate; 1.5 mm thick; without lock-out seal option; orange
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### 1.2 Optional Accessories

#### 1.2.1 DIN-rail

##### 1.2.1.1 Mounting accessories



<a href="#">Item No.: 210-196</a> Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-198</a> Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored	<a href="#">Item No.: 210-197</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored	<a href="#">Item No.: 210-114</a> Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored
 <a href="#">Item No.: 210-118</a> Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored	 <a href="#">Item No.: 210-115</a> 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	 <a href="#">Item No.: 210-112</a> 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	 <a href="#">Item No.: 210-113</a> Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

### 1.2.2 Installation

#### 1.2.2.1 Cover



<a href="#">Item No.: 709-156</a> 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

## 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

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

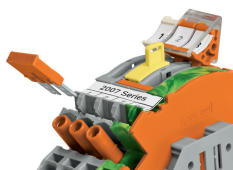


Item No.: 210-721

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



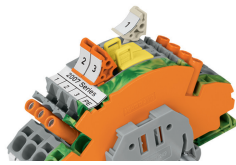
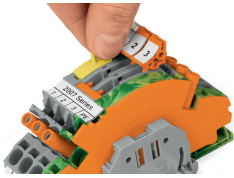
Preparing shorting path for the current transformer circuits.



Insert insulated, touch-proof circuit jumpers into jumper slot.



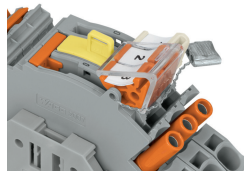
Insert insulated, touch-proof circuit jumpers into jumper slot.



Lock-out prevents accidental operation of disconnect link.

Lock-out snaps into one of two notched positions.

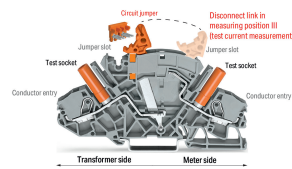
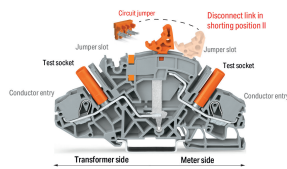
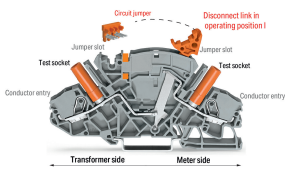
### Locking system



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.

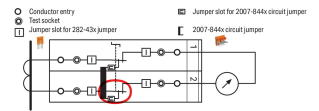
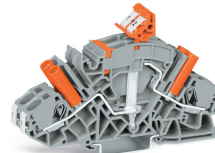
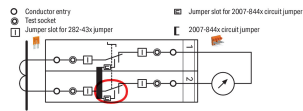
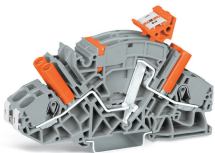


Disconnect/Test Terminal Block (Item No. 2007-8821)

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

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

### Measurement



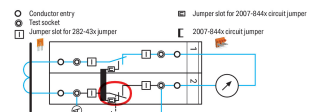
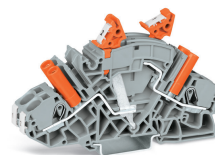
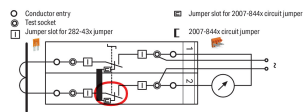
**Disconnect link in operating position I**  
Terminal blocks required:  
2 x disconnect/test terminal block (Item No. 2007-8821)  
1 x circuit jumper, orange (Item No. 2007-8442)  
Locking covers or interlocking links (option)

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



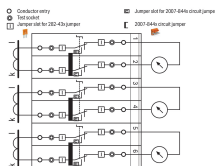
**Test current measurement: Disconnect link in measuring position III**

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

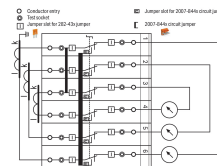
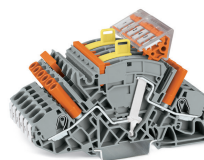
Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).



**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.

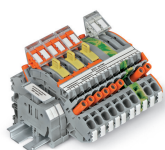


**Measuring set for a three-phase current transformer with 'Y' point**

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.