

Terminal blocks

Simple. Fast. Safe.

Klippon® Connect TTB Range for instrument
transformer wiring



Weidmüller 



Klippon® Connect TTB Range for instrument transformer wiring

Ensuring safety of personnel and devices

In T&D applications, current and voltage transformers are mainly used for protection and measurement functions. Our new TTB range of Klippon® Connect instrument transformer terminal blocks have been designed to meet all the connection requirements of these two critical applications. The wiring of current and voltage transformers can be carried out particularly easily and safely with the new terminal block series – even within complex circuits. The prevention of operating errors during operation increases plant availability and extends the life cycle of the entire control cabinet. Thus, the respective requirements of the end user are fulfilled to the highest degree.



Take a closer look at our new Klippon® Connect TTB range.
Just scan the QR code and watch the video.

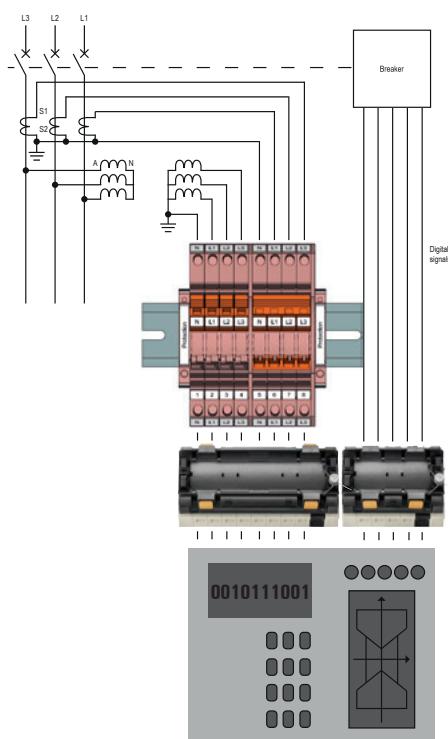
Protection and Metering applications

Covering all connectivity critical requirements



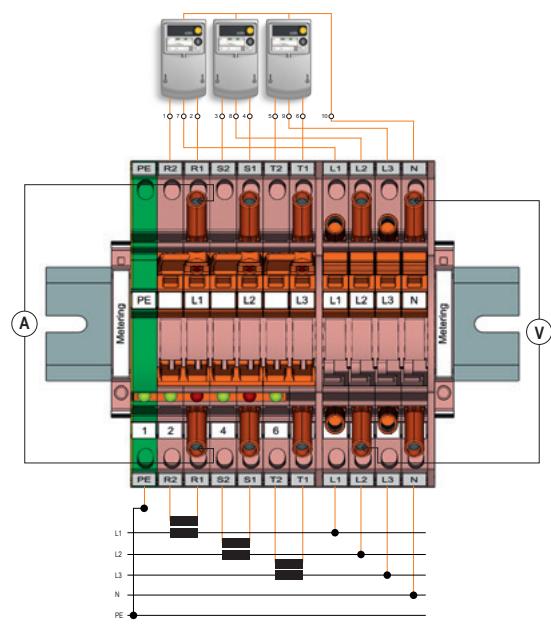
Protection

Protection relays have an extremely important and critical function in T&D grids as they have to detect and isolate faults in the shortest possible time. Their connection with Current and Voltage transformers not only has to be SECURE but also SIMPLE and SAFE. The simplicity is very important in the design/standardization of the required protection circuits (engineering stage) and the safety is crucial to avoid that potential human mistakes during maintenance operations can affect either personnel or devices.



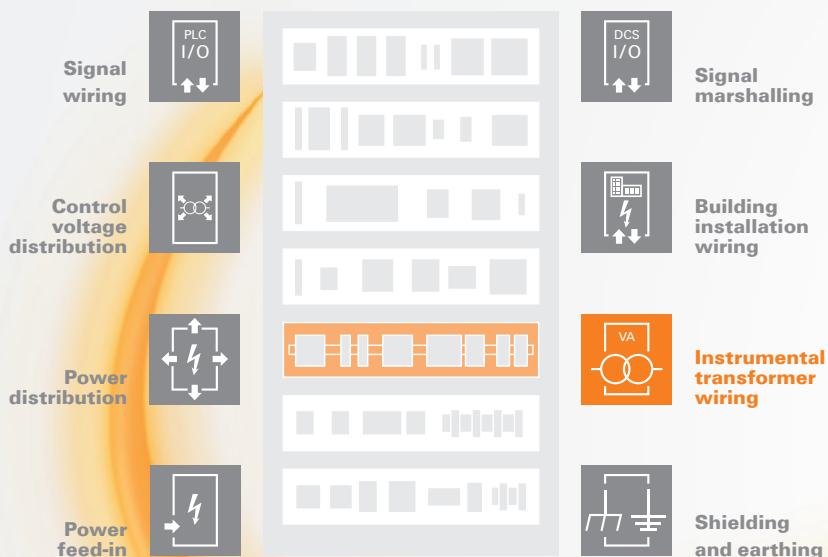
Metering

Indirect and Semi-Direct Metering applications also require SECURENESS, SIMPLICITY and SAFETY in the connections with Current and Voltage transformers. However, there are some particularities in this application that require a certain FLEXIBILITY that could affect the SAFETY (eg: connection of a pattern serial ammeter from time to time). Our Klippon® Connect TTB range terminal blocks also cover the specific requirements of Metering connections providing the right solutions to perform all the necessary tests without affecting the safety of personnel and devices.



Simple, fast, and safe wiring of current and voltage transformers

Klippon® Connect TTB Range for instrument transformer wiring



Your special advantages:



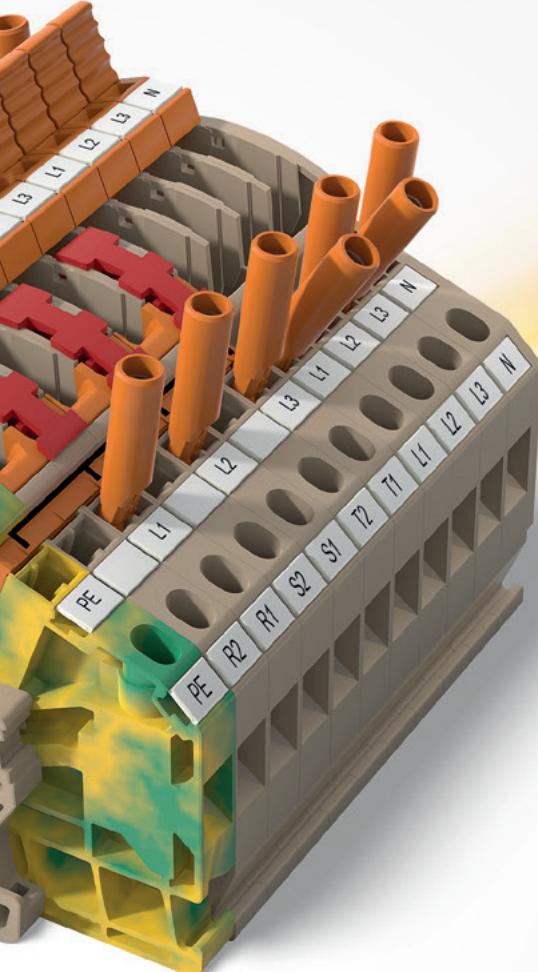
Safe current and voltage transformer wiring with a single terminal block system.



PE terminal with identical contour for quick and easy realisation of star centres and reference points.



Make Before Break: Integrated single-stage forced short circuit mechanism for 100% safe handling.



Achieving added value at all stages of panel building

The planning phase is crucial for the success and cost-effectiveness of the entire panel building process, and requires the intelligent interplay of digital product data and interconnected engineering tools.

Efficient, easy wiring is key to installation. Our products stand out in this respect with their intuitive handling and clear design. All terminal functions can be distinguished from each other instantly.

Our Klippon® Connect products feature standardised test points which make automated testing and checking processes possible. In this way, maintenance and testing tasks can be carried out much more safely and faster.



Ready to robot

Shape and marker positioning of the terminals are optimally adapted to robot-supported assembly processes.



Dedicated cross-connection channel upstream and downstream the disconnect contact for maximum flexibility.



Simple selection of safety-relevant accessories and rational product configuration via WMC.

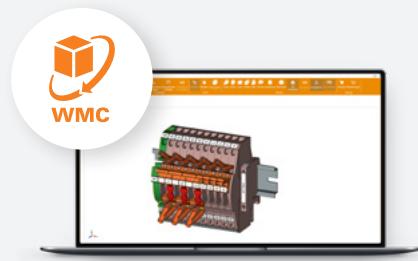


Test sockets allowing adjoining fully insulated test plugs up to 10 mm diameter.

Unique features giving added value throughout the complete process* From planning through installation and operation

Data-supported accessory selection via WMC

The complete provision of data in the Weidmüller Configurator (WMC) enables a particularly simple selection of safety-critical accessories as well as safe and rational product configuration.



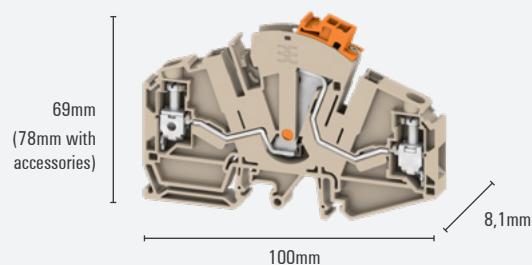
Free choice of connection technology

The TTB range terminal blocks and their accessories are highly standardised. All features can be used regardless of the chosen connection solution – whether PUSH IN or screw connection.



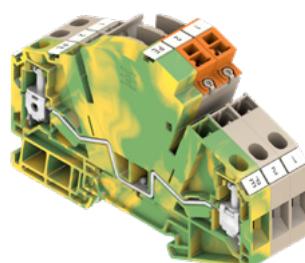
Maximum function density

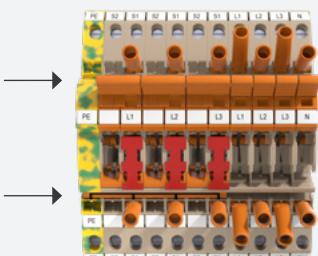
The new transformer terminal blocks of the TTB range are particularly compact and offer an outstanding functional density compared to other solutions on the market.



PE terminal with identical contour

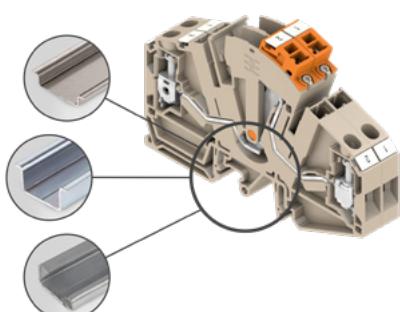
The new TTB range includes a PE terminal block having the same contour. It can be connected to the current or voltage transformer terminal via standard cross-connections. This simplifies and accelerates the earthing of star points in the control cabinet.





Dedicated cross-connection channel

A cross-connection channel, upstream and downstream the disconnect point, ensures maximum flexibility during installation. Neither the short-circuit function of current transformers nor the testing possibilities are limited. In this way, even more complex circuit requirements can be realised with the same standardised accessories.



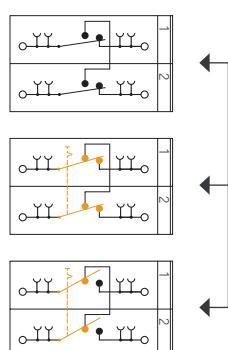
Easy to install (for WTTB 6 and HTTB 6)

The integrated combi-foot simplifies flexible mounting on the common G32 and TH35 mounting rail profiles. The product replacement therefore can be carried out without the cost-intensive exchange of the mounting rails.



Unique lever mechanism

The unique lever mechanism is particularly user-friendly. It offers maximum contact reliability and can be optimally operated under all lighting conditions. The disconnect lever can be operated either manually or with a standard screwdriver. It also offers an easy possibility to implement multi-pole actuations.



New forced short circuit functionality

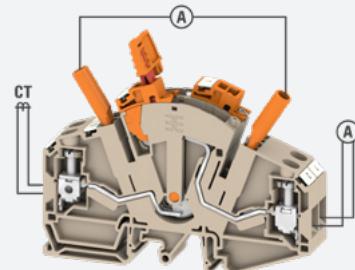
The combination of isolating lever, short circuit bridge, and lever link in a single system guarantees that the secondary wiring of a current transformer is short-circuited before the longitudinal disconnection takes place. This „Make Before Break“ contact can be realised for up to four terminals.

Unique features giving added value throughout the complete process*

From planning through installation and operation

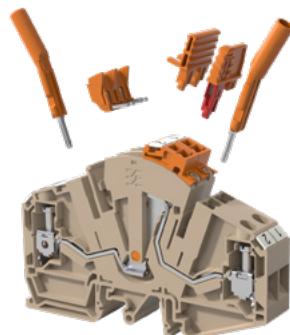
Reliable comparative measurement

A patented CM (Comparative Measurement) lever link allows two terminal blocks to be selectively separated to connect a calibrated measuring device. After the measurement, the captive lever is returned to its original position, with the „make before break“ contact remaining active. This is a unique feature of the TTB range which guarantees maximum safety for personnel and asset preservation.



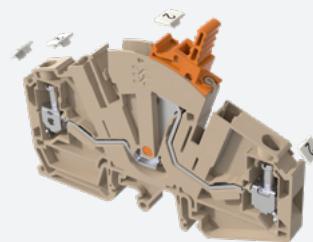
Captive components

All function- and safety-relevant components are captively connected to the terminal block. This increases the reliability of the current and voltage transformer circuits during installation and maintenance work.



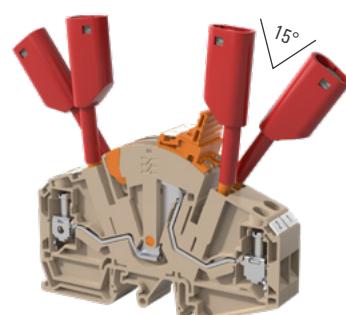
Clear marking

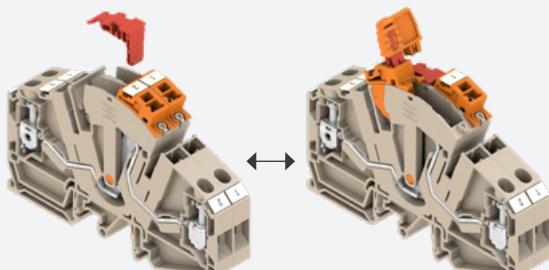
To identify circuits unambiguously is extremely important for safety. For this reason, the new instrument transformer terminal blocks have large marking areas which are clearly visible from any angle.



Angled test sockets

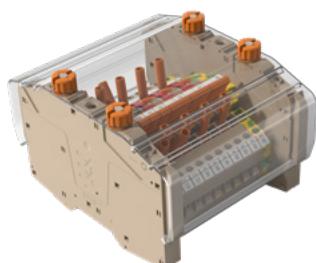
The angled test sockets enable the connection of 4.0 mm² plugs in widths of up to 10 mm. Due to the alternating arrangement, all standard measurements can be done without fanning-out despite the reduced width of the terminal.





Reliable switch lock

The switch lock prevents the disconnect lever from being moved out of the set position. This avoids unauthorised opening and closing of circuits. Alternatively, a wire having a diameter of 1 mm can be inserted providing sealing possibility directly on the terminal.



Enhanced safety cover hood system

The transparent cover hood system protects and seals the entire assembly. It is available either as a full-length profile or as an individual cover. It can only be fixed when all connection components are in their initial position. The assembly is optimally protected against unauthorised access without impairing visual inspection.



Distinct colour coding

In order to guarantee maximum safety in installation and maintenance, an extensive colour range is available for the requested colour-coding of terminals, accessories, test sockets and lever links.

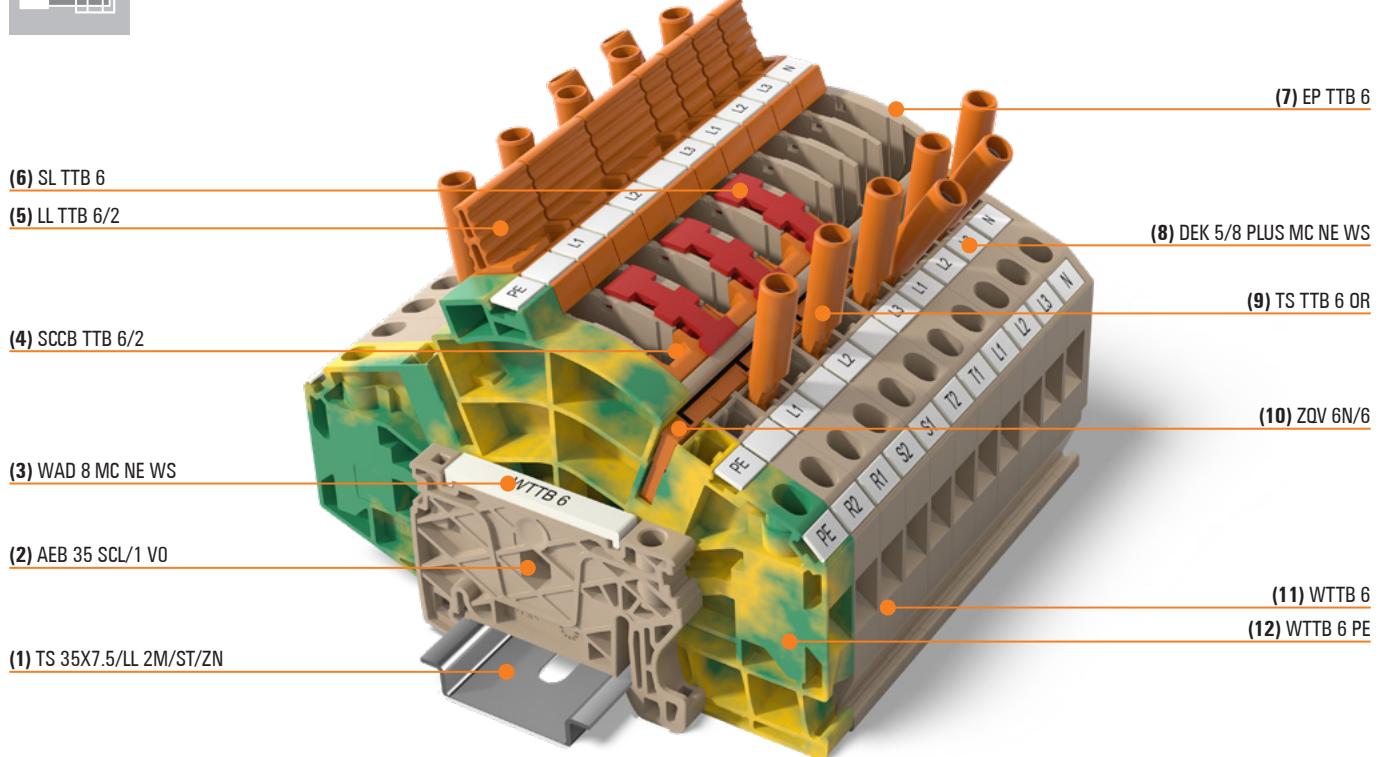
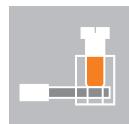


IEC CB Scheme Certification

Klippon® Connect TTB range instrument transformer terminal blocks are certified by third party according to the requirements of IEC 60947-7-1 – Annex D Standard. Such certification grants the safe use of TTB range terminals throughout time and is a recognised qualified reference worldwide.

Klippon® Connect WTTB Range with screw connection technology

Technical details and order numbers



Overview of ordering data

Pos.	Description	Type	Dimensions	Color	Qty.	Order No.
1	Mounting rail	TS 35X7.5/LL 2M/ST/ZN	35 x 7.5 x 2000 mm	silver	2	0514500000
2	End bracket	AEB 35 SCL/1 VO	6 x 52.6 x 36.5 mm	dark beige*	50	2661280000
3	Group marker	WAD 5 MC NE WS	6 x 11.7 x 33.3 mm	white	48	1112910000
4	Short circuit bridge	SCCB TTB 6/2	16 x 13.5 x 14 mm	orange*	25	2710190000
	Short circuit bridge	SCCB TTB 6/3	24 x 13.5 x 14 mm	orange*	25	2710200000
	Short circuit bridge	SCCB TTB 6/4	32 x 13.5 x 14 mm	orange*	25	2710210000
5	Lever link	LL TTB 6/1	7.6 x 19.7 x 4 mm	orange*	50	2710230000
	Lever link	LL TTB 6/2	15.7 x 19.7 x 8.2 mm	orange*	50	2710300000
	Lever link	LL TTB 6/3	23.8 x 19.7 x 8.2 mm	orange	10	2710440000
	Lever link	LL TTB 6/4	31.9 x 19.7 x 8.2 mm	orange	10	2710450000
	Lever link	LL TTB 6/6	48.1 x 19.7 x 8.2 mm	orange	10	2710460000
	Lever link for comparative measurement	LL TTB 6/2 CM	15.9 x 25.1 x 4.2 mm	orange*	50	2710370000
	Lever link for comparative measurement	LL TTB 6/3 CM	24 x 25.1 x 4.2 mm	orange	10	2726100000
	Lever link for comparative measurement	LL TTB 6/4 CM	32 x 25.1 x 4.2 mm	orange	10	2726110000
6	Switch lock	SL TTB 6	8 x 15 x 20 mm	red	50	2710220000
7	Endplate	EP TTB 6	2.1 x 34 x 61 mm	dark beige	20	2710170000
8	Terminal block marker	DEK 5/8 PLUS MC NE WS	8 x 2 x 5 mm	weiß	800	1046350000
9	Test plug	TS TTB 6 OR	6.3 x 9.5 x 51.5 mm	orange*	48	2710470000
10	Cross-connection	ZQV 6N/6	46.1 x 3.1 x 34 mm	orange*	20	2733950000
	Cross-connection	ZQV 6N/7	54.2 x 3.1 x 34 mm	orange*	20	2733960000
	Cross-connection	ZQV 6N/10	78.5 x 3.1 x 34 mm	orange*	20	2733970000
11	Instrument transformer wiring terminal block	WTTB 6	8.1 x 69 x 100 mm	dark beige*	50	2710090000
12	Instrument transformer wiring terminal block PE	WTTB 6 PE	8.1 x 69 x 100 mm	green/yellow	50	2710100000

* More colored version you will find inside our online catalogue

WTTB 6

6 mm²



Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm ²
Max. clamping range	mm ²

Technical data

Rated data

Rated voltage	V
Rated current	A
for wire cross-section	mm ²

Short-time withstand current resistance

Rated impulse withstand voltage / Pollution severity

Gauge to IEC 60947-1 / UL 94 flammability rating

Approvals

Clamped conductors (H05V/H07V)

Solid / Stranded	mm ²
Flexible / Flexible with ferrule	mm ²
Tightening torque (clamping screw for copper conductors)	Nm
Stripping length / Blade size	mm/-

Note

Ordering data

Version

dark beige
Green/yellow

Note

8.1 x 100 x 69
30 / 10
0.5...10



IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500	300	300	
30	30	30	
6	AWG 22...8	AWG 22...8	
			6 kV / 3
			A4 / V-0

CE (CE) (UL) (CSA) (EN)

Rated connection

0.5...10 / 0.5...6
0.5...10 / 0.5...6
0.8...1.6
12 / 0.8 x 4.0 mm

Accessories

Short circuit bridge

2-pole
3-pole
4-pole

Cross-connector

6-pole
7-pole
10-pole

End plate

dark beige

Lever link

1-pole
2-pole
for comparative measurement 2-pole

Test plug

orange
blue
green
yellow
Black
violet

Switch Lock

Cover

Textile cover
Cover profile
Cover support

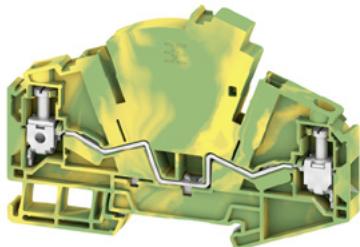
Identification systems

DEK 5/8 PLUS MC NE WS
DEK 5/7.5 MC NE WS

For detailed information on other accessories and application in the online catalogue

WTTB 6 PE

6 mm²



8.1 x 100 x 69
/ 10
0.5...10



IEC 60947-7-2

IEC	UL	CSA	EN 60079-7
500			
6			720 A (6mm ²)
			/ 3
			A4 / V-0

CE (CE) (UL) (CSA) (EN)

Rated connection

0.5...10 / 0.5...6
0.5...10 / 0.5...6
0.8...1.6
12 / 0.8 x 4.0 mm

Type	Qty.	Order No.
WTTB 6	50	2710090000
WTTB 6 PE	50	2710100000

Type	current	Qty.	Order No.
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000
EP TTB 6		20	2710170000

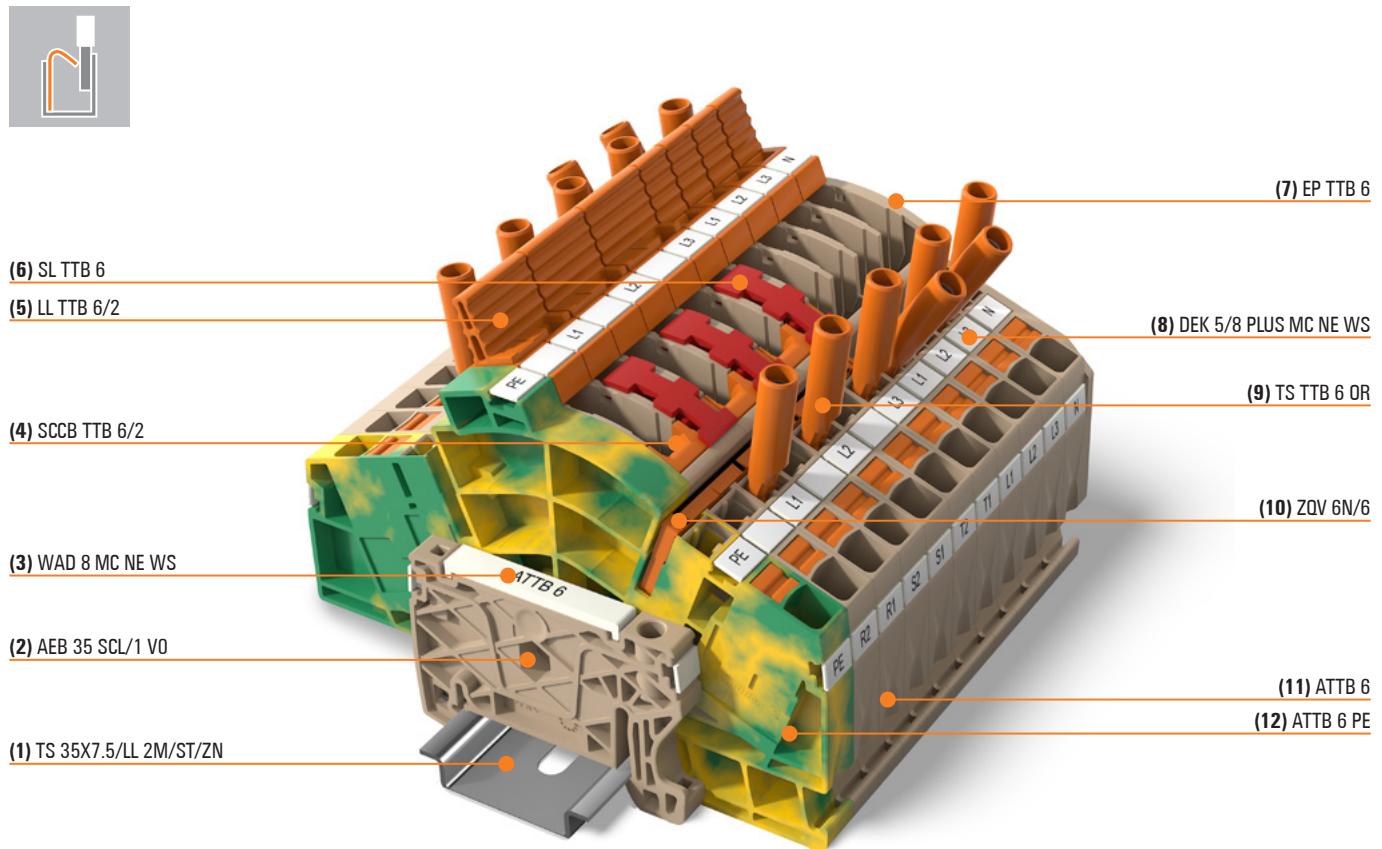
Type	current	Qty.	Order No.
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000
EP TTB 6		20	2710170000

Type	current	Qty.	Order No.
TS TTB 6 OR	48	2710470000	
TS TTB 6 BL	48	2710480000	
TS TTB 6 GN	48	2710490000	
TS TTB 6 YL	48	2710500000	
TS TTB 6 BK	48	2710520000	
TS TTB 6 VT	48	2710530000	
SL TTB 6		50	2710220000

Type	current	Qty.	Order No.
CH TTB		1	2710130000
CP TTB		1	2710140000
CS TTB		10	2710150000
DEK 5/8 PLUS MC NE WS	800		1046350000
DEK 5/7.5 MC NE WS	320		1720620000

Klippon® Connect ATTB Range with PUSH IN technology

Technical details and order numbers



Overview of ordering data

Pos.	Description	Type	Dimensions	Color	Qty.	Order No.
1	Mounting rail	TS 35X7.5/LL 2M/ST/ZN	35 x 7.5 x 2000 mm	silver	2	0514500000
2	End bracket	AEB 35 SCL/1 VO	6 x 52.6 x 36.5 mm	dark beige*	50	2661280000
3	Group marker	WAD 5 MC NE WS	6 x 11.7 x 33.3 mm	white	48	1112910000
4	Short circuit bridge	SCCB TTB 6/2	16 x 13.5 x 14 mm	orange*	25	2710190000
	Short circuit bridge	SCCB TTB 6/3	24 x 13.5 x 14 mm	orange*	25	2710200000
	Short circuit bridge	SCCB TTB 6/4	32 x 13.5 x 14 mm	orange*	25	2710210000
5	Lever link	LL TTB 6/1	7.6 x 19.7 x 4 mm	orange*	50	2710230000
	Lever link	LL TTB 6/2	15.7 x 19.7 x 8.2 mm	orange*	50	2710300000
	Lever link	LL TTB 6/3	23.8 x 19.7 x 8.2 mm	orange	10	2710440000
	Lever link	LL TTB 6/4	31.9 x 19.7 x 8.2 mm	orange	10	2710450000
	Lever link	LL TTB 6/6	48.1 x 19.7 x 8.2 mm	orange	10	2710460000
	Lever link for comparative measurement	LL TTB 6/2 CM	15.9 x 25.1 x 4.2 mm	orange*	50	2710370000
	Lever link for comparative measurement	LL TTB 6/3 CM	24 x 25.1 x 4.2 mm	orange	10	2726100000
	Lever link for comparative measurement	LL TTB 6/4 CM	32 x 25.1 x 4.2 mm	orange	10	2726110000
6	Switch lock	SL TTB 6	8 x 15 x 20 mm	red	50	2710220000
7	Endplate	EP TTB 6	2.1 x 34 x 61 mm	dark beige	20	2710170000
8	Terminal block marker	DEK 5/8 PLUS MC NE WS	8 x 2 x 5 mm	weiß	800	1046350000
9	Test plug	TS TTB 6 OR	6.3 x 9.5 x 51.5 mm	orange*	48	2710470000
10	Cross-connection	ZQV 6N/6	46.1 x 3.1 x 34 mm	orange*	20	2733950000
	Cross-connection	ZQV 6N/7	54.2 x 3.1 x 34 mm	orange*	20	2733960000
	Cross-connection	ZQV 6N/10	78.5 x 3.1 x 34 mm	orange*	20	2733970000
11	Instrument transformer wiring terminal block	ATTB 6	8.1 x 69 x 100 mm	dark beige*	50	2710090000
12	Instrument transformer wiring terminal block PE	ATTB 6 PE	8.1 x 69 x 100 mm	green/yellow	50	2710100000

* More colored version you will find inside our online catalogue

ATTB 6

6 mm²

Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm ²
Max. clamping range	mm ²

ATTB 6 PE

6 mm²

8.1 x 100 x 69	
/ 10	
0.5...10	

Technical data

Rated data

Rated voltage	V
Rated current	A
for wire cross-section	mm ²
Short-time withstand current resistance	
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	

Clamped conductors (H05V/H07V)

Solid / Stranded	mm ²
Flexible / Flexible with ferrule	mm ²
Tightening torque (clamping screw for copper conductors)	
Stripping length / Blade size	mm/-

Note

Ordering data

Version

dark beige
Green/yellow

Note

Accessories

Short circuit bridge

2-pole
3-pole
4-pole

Cross-connector

6-pole
7-pole
10-pole

End plate

dark beige
1-pole

Lever link

1-pole
2-pole

for comparative measurement 2-pole

Test plug

orange
blue
green
yellow
Black
violet

Switch Lock

Textile cover
Cover profile
Cover support

Identification systems

DEK 5/8 PLUS MC NE WS	800	1046350000
DEK 5/7.5 MC NE WS	320	1720620000

For detailed information on other accessories and application in the online catalogue

ATTB 6

6 mm²

8.1 x 100 x 69	
30 / 10	
0.5...10	

ATTB 6 PE

6 mm²

8.1 x 100 x 69	
/ 10	
0.5...10	

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500	300	300	
30	29	29	
6	AWG 22...8	AWG 22...8	

6 kV / 3

A4 / V-0

CE (CE) (UL) (CSA) (EN)

Rated connection

0.5...10 / 0.5...6
0.5...10 / 0.5...6

12 / 0.8 x 4.0 mm

Ordering data

Type

Type	Qty.	Order No.
ATTB 6	50	2710070000

Type

Type	Qty.	Order No.
ATTB 6 PE	50	2710080000

Accessories

Type

Type	current	Qty.	Order No.
SCCB TTB 6/2	25	2710190000	
SCCB TTB 6/3	25	2710200000	
SCCB TTB 6/4	25	2710210000	

Type

Type	current	Qty.	Order No.
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000

Type

ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000

Type

EP TTB 6	20	2710170000

Type

EP TTB 6	20	2710170000

Type

TS TTB 6 OR	48	2710470000
TS TTB 6 BL	48	2710480000
TS TTB 6 GN	48	2710490000
TS TTB 6 YL	48	2710500000
TS TTB 6 BK	48	2710520000

Type

TS TTB 6 VT	48	2710530000

Type

SL TTB 6	50	2710220000

Type

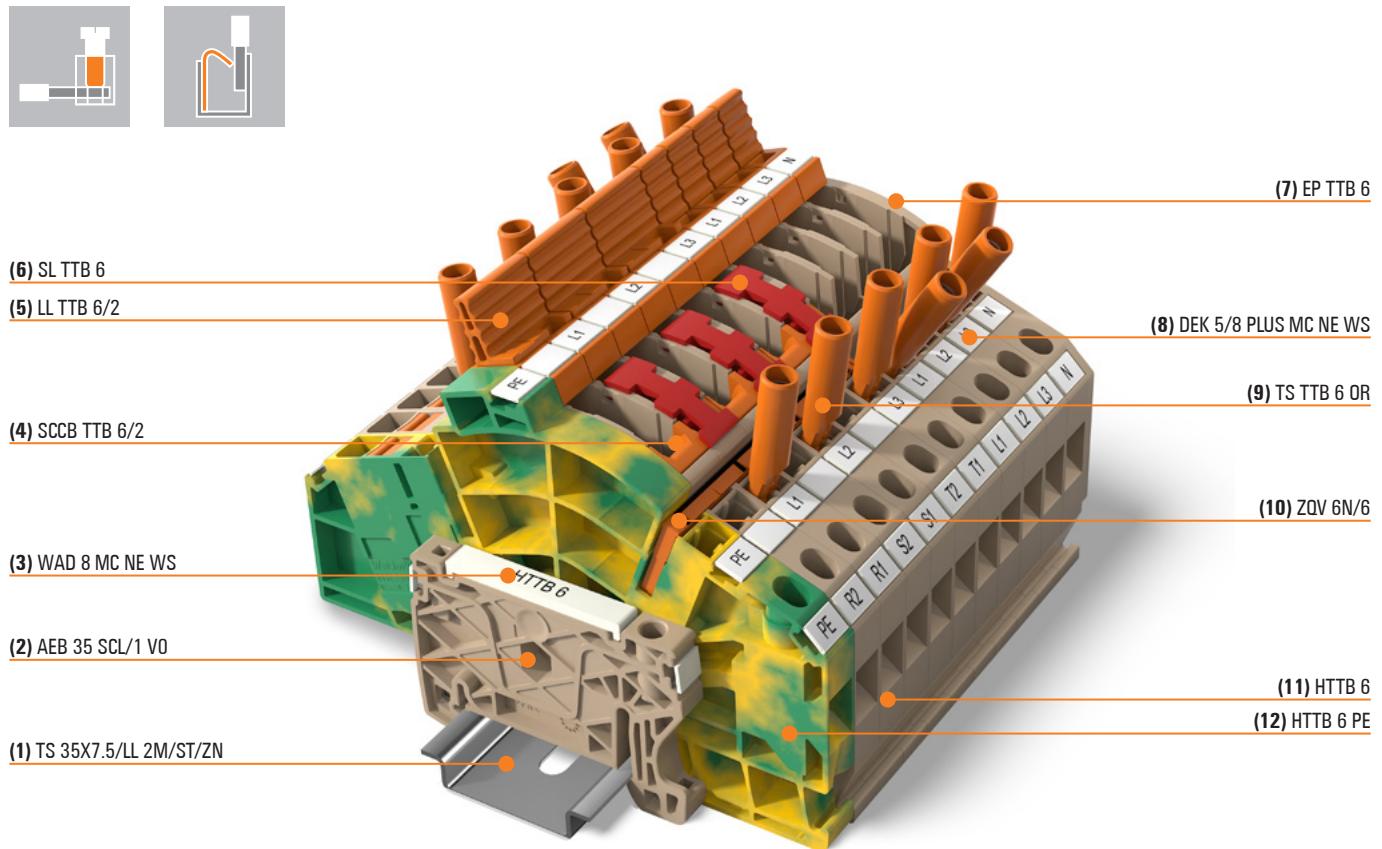
CH TTB	1	2710130000
CP TTB	1	2710140000
CS TTB	10	2710150000

Type

DEK 5/8 PLUS MC NE WS	800	1046350000
DEK 5/7.5 MC NE WS	320	1720620000

Klippon® Connect HTTB Range with hybrid screw/PUSH IN technology

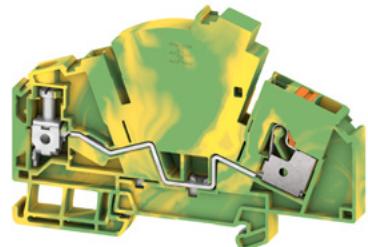
Technical details and order numbers



Overview of ordering data

Pos.	Description	Type	Dimensions	Color	Qty.	Order No.
1	Mounting rail	TS 35X7.5/LL 2M/ST/ZN	35 x 7.5 x 2000 mm	silver	2	0514500000
2	End bracket	AEB 35 SCL/1 VO	6 x 52.6 x 36.5 mm	dark beige*	50	2661280000
3	Group marker	WAD 5 MC NE WS	6 x 11.7 x 33.3 mm	white	48	1112910000
4	Short circuit bridge	SCCB TTB 6/2	16 x 13.5 x 14 mm	orange*	25	2710190000
	Short circuit bridge	SCCB TTB 6/3	24 x 13.5 x 14 mm	orange*	25	2710200000
	Short circuit bridge	SCCB TTB 6/4	32 x 13.5 x 14 mm	orange*	25	2710210000
5	Lever link	LL TTB 6/1	7.6 x 19.7 x 4 mm	orange*	50	2710230000
	Lever link	LL TTB 6/2	15.7 x 19.7 x 8.2 mm	orange*	50	2710300000
	Lever link	LL TTB 6/3	23.8 x 19.7 x 8.2 mm	orange	10	2710440000
	Lever link	LL TTB 6/4	31.9 x 19.7 x 8.2 mm	orange	10	2710450000
	Lever link	LL TTB 6/6	48.1 x 19.7 x 8.2 mm	orange	10	2710460000
	Lever link for comparative measurement	LL TTB 6/2 CM	15.9 x 25.1 x 4.2 mm	orange*	50	2710370000
	Lever link for comparative measurement	LL TTB 6/3 CM	24 x 25.1 x 4.2 mm	orange	10	2726100000
	Lever link for comparative measurement	LL TTB 6/4 CM	32 x 25.1 x 4.2 mm	orange	10	2726110000
6	Switch lock	SL TTB 6	8 x 15 x 20 mm	red	50	2710220000
7	Endplate	EP TTB 6	2.1 x 34 x 61 mm	dark beige	20	2710170000
8	Terminal block marker	DEK 5/8 PLUS MC NE WS	8 x 2 x 5 mm	weiß	800	1046350000
9	Test plug	TS TTB 6 OR	6.3 x 9.5 x 51.5 mm	orange*	48	2710470000
10	Cross-connection	ZQV 6N/6	46.1 x 3.1 x 34 mm	orange*	20	2733950000
	Cross-connection	ZQV 6N/7	54.2 x 3.1 x 34 mm	orange*	20	2733960000
	Cross-connection	ZQV 6N/10	78.5 x 3.1 x 34 mm	orange*	20	2733970000
11	Instrument transformer wiring terminal block	HTTB 6	8.1 x 69 x 100 mm	dark beige*	50	2710110000
12	Instrument transformer wiring terminal block PE	HTTB 6 PE	8.1 x 69 x 100 mm	green/yellow	50	2710120000

* More colored version you will find inside our online catalogue

HTTB 6**6 mm²****HTTB 6 PE****6 mm²**

Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm ²
Max. clamping range	mm ²

8.1 x 100 x 69	
30 / 10	○ YY — YY ○
0.5...10	

8.1 x 100 x 69	
/ 10	○ YY — PE YY ○
0.5...10	

Technical data**Rated data**

Rated voltage	V
Rated current	A
for wire cross-section	mm ²
Short-time withstand current resistance	
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	

Clamped conductors (H05V/H07V)

Solid / Stranded	mm ²
Flexible / Flexible with ferrule	mm ²
Tightening torque (clamping screw for copper conductors)	NM
Stripping length / Blade size	mm/-

Note**Ordering data****Version**

	dark beige
	Green/yellow

Note**Accessories****Short circuit bridge**

2-pole	
3-pole	
4-pole	

Cross-connector

6-pole	
7-pole	
10-pole	

End plate

	dark beige
--	------------

Lever link

1-pole	
2-pole	
for comparative measurement	2-pole

Test plug

orange	
blue	
green	
yellow	
Black	
violet	

Switch Lock

Textile cover	
Cover profile	
Cover support	

Identification systems

DEK 5/8 PLUS MC NE WS	800	1046350000
DEK 5/7.5 MC NE WS	320	1720620000

For detailed information on other accessories and application in the online catalogue

IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500	300	300	
30	29	29	
6	AWG 22...8	AWG 22...8	

6 kV / 3

A4 / V-0

CE**Rated connection**

0.5...10 / 0.5...6	
0.5...10 / 0.5...6	
0.8...1.6	
12 / 0.8 x 4.0 mm	

Note**Ordering data****Type**

Type	Qty.	Order No.
HTTB 6	50	2710110000

Type

Type	Qty.	Order No.
HTTB 6 PE	50	2710120000

Accessories**Type**

Type	current	Qty.	Order No.
SCCB TTB 6/2	25	2710190000	
SCCB TTB 6/3	25	2710200000	
SCCB TTB 6/4	25	2710210000	

Type

Type	current	Qty.	Order No.
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000

Type

Type	current	Qty.	Order No.
EP TT B 6	20	2710170000	

Type

Type	current	Qty.	Order No.
LL TT B 6/1	50	2710230000	
LL TT B 6/2	50	2710300000	
LL TT B 6/2 CM	50	2710370000	

Type

Type	current	Qty.	Order No.
TS TT B 6 OR	48	2710470000	
TS TT B 6 BL	48	2710480000	
TS TT B 6 GN	48	2710490000	
TS TT B 6 YL	48	2710500000	
TS TT B 6 BK	48	2710520000	
TS TT B 6 VT	48	2710530000	

Type

Type	current	Qty.	Order No.
SL TT B 6	50	2710220000	
CH TT B	1	2710130000	
CP TT B	1	2710140000	

Type

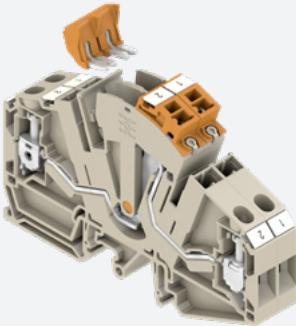
Type	current	Qty.	Order No.
CS TT B	10	2710150000	
DEK 5/8 PLUS MC NE WS	800	1046350000	

Type

Type	current	Qty.	Order No.
DEK 5/7.5 MC NE WS	320	1720620000	

Klippon® Connect TTB Range*

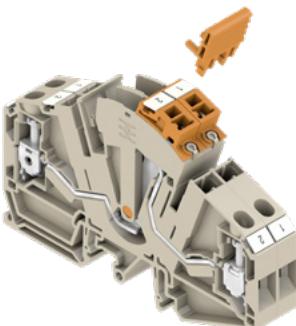
Accessories for TTB 6 test-disconnect terminal Block



Short circuit bridge

The short circuit bridge can be simply and quickly inserted into the terminal blocks. If several levers are connected simultaneously with the lever connector, the make before break can be realised. Once mounted, the short circuit bridge cannot be removed from the application.

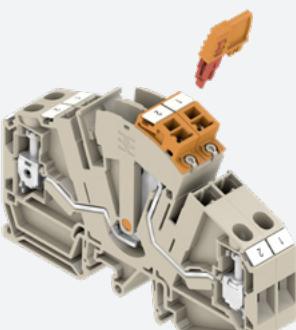
Type	Qty.	Order No.
SCCB TTB 6/2	25	2710190000
SCCB TTB 6/3	25	2710200000
SCCB TTB 6/4	25	2710210000



Lever link

The lever link mechanically locks the connected disconnect levers of the terminal blocks. Switching the lever link together with the inserted short circuit bridge allows make before break functionality inside the application. Once mounted, the lever link cannot be removed from the application.

Type	Qty.	Order No.
LL TTB 6/1	50	2710230000
LL TTB 6/2	50	2710300000
LL TTB 6/3	50	2710440000
LL TTB 6/4	25	2710450000
LL TTB 6/6	10	2710460000



Comparative measurement lever link

The LL TTB 6 CM enables safe and fast comparative measurement. After lifting the LL TTB 6 CM, the two levers of the terminal blocks are mechanically separated from each other and can be switched independently. Once mounted, the lever link cannot be removed from the application.

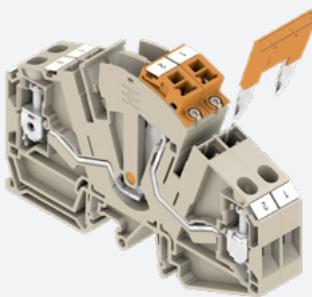
Type	Qty.	Order No.
LL TTB 6/2 CM	50	2710370000
LL TTB 6/3 CM	50	2726100000
LL TTB 6/4 CM	50	2726110000



Test socket

The test socket is used to connect test devices with a standard 4.0 plug with widths up to 10 mm into the terminal. Test sockets are arranged at an angle, therefore all standard measurements (even adjoining) can be realised within the terminal width of 8.1 mm. Once mounted, the test socket cannot be removed from the application.

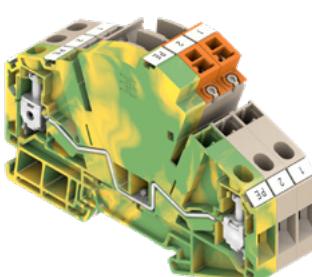
Type	Qty.	Order No.
TS TTB 6 OR	48	2710470000
TS TTB 6 BL	48	2710480000
TS TTB 6 BK	48	2710520000
TS TTB 6 BR	48	2715540000
TS TTB 6 GN	48	2710490000
TS TTB 6 RD	48	2710510000
TS TTB 6 YL	48	2710500000
TS TTB 6 VT	48	2710530000



Cross-connection

The cross-connection enables potential multiplication or the realisation of a star connection within the application.

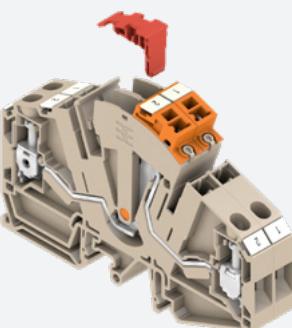
Type	Qty.	Order No.
ZQV 6N/4	60	1985780000
ZQV 6N/6	60	2733950000
ZQV 6N/7	60	2733960000
ZQV 6N/10	60	2733970000



Contour-like PE terminal block

A PE terminal block with identical contour (only for TH 35 rails) is a very useful component in a test-disconnect terminal block system, since it allows easy and safe realisation of star connection / reference points within the application.

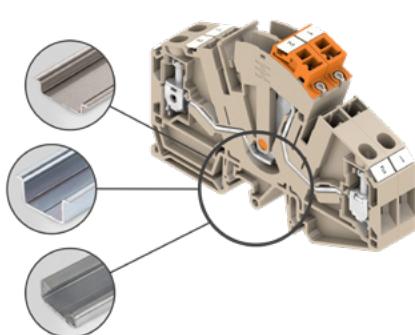
Type	Qty.	Order No.
WTTB 6 PE	50	2710100000
ATTB 6 PE	50	2710080000
HTTB 6 PE	50	2710120000



Switch lock

The switch lock can be easily inserted into the terminal from above. The switch lock prevents unauthorised opening or closing of circuits as it blocks the disconnect lever in its respective position.

Type	Qty.	Order No.
SL TTB 6	50	2710220000



Combi-foot (for WTTB 6 and HTTB 6)

Integrated combi-foot allows easy and quick mounting onto all available TH 35 and G32 rails, thus allowing cost and time effective panel retrofit

Type	Qty.	Order No.
TS 35X15/LL 2M/ST/ZN	2	0236500000
TS 32X15 2M/ST/ZN	2	0122800000
TS 35X7.5/LL 2M/ST/ZN	2	0514500000

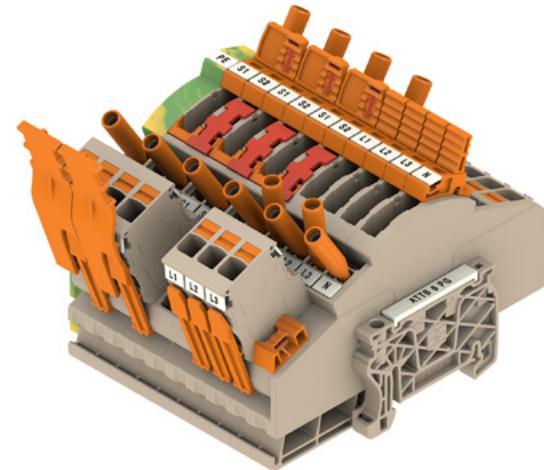
*Illustrations and functionalities are referred for all versions, including pluggable.

Simple, fast and safe wiring of current and voltage transformers

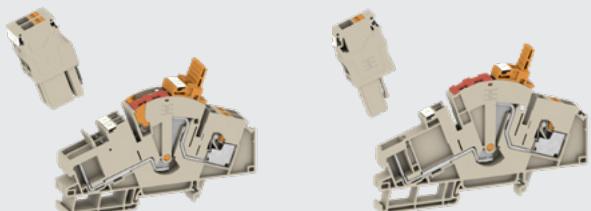
Klippon® Connect ATTB 6 PG range with pluggable connection for instrument transformer wiring

Where instrument transformer wiring requirements are coupled with enhanced wiring efficiency requests, all features of the TTB range can be exploited.

With the pluggable connection option located on the field side and directly connected to the instrument transformers, transformer circuits can now be wired even more securely.

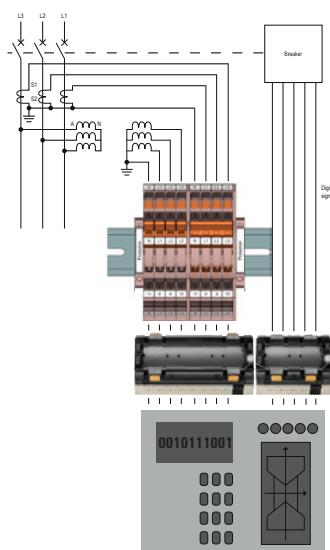


In current transformer circuits, the ATTB 6 PG CT is equipped with a specially designed 2 and 3 pole self-shorting plug able to guarantee a Make Before Break (MBB) contact under every handling condition. For voltage circuits a simple feed-through plug offered with the ATTB 6 PG VT guarantees the same handling easiness and safety required also for voltage circuits. Both CT and VT plugs are equipped with full coding possibility to avoid any dangerous exchange.



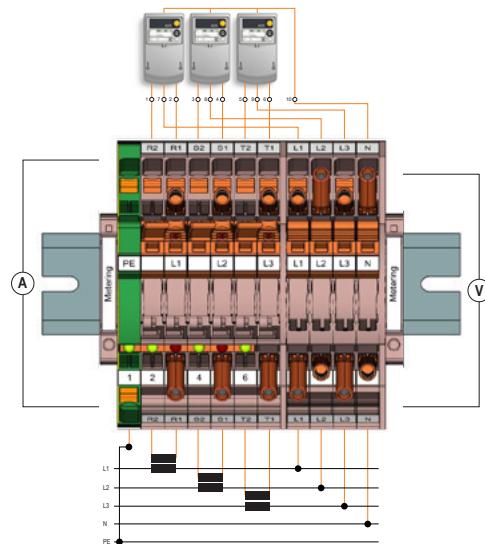
Protection relay application

The increased wiring effort required by protective relay circuits can be optimally managed with the ATTB 6 PG. Thanks to its pluggable interface, tangible operational advantages are made possible without compromising safety.

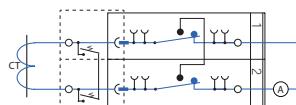
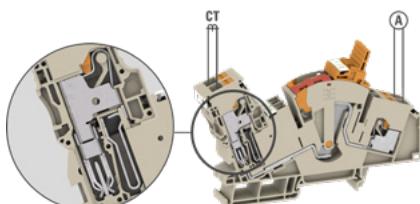


Metering application

ATTB 6 PG terminal blocks can be easily configured onto a rail in order to form a complete and functional connectivity interface in any metering cabinet. This allows intuitive, fast and safe handling for any operator.

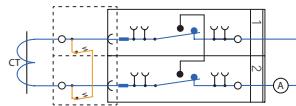
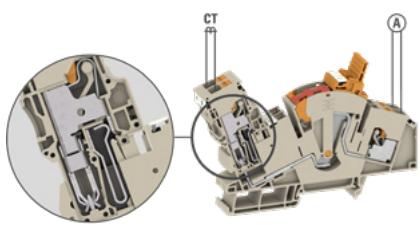
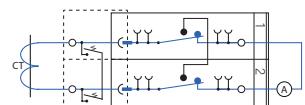
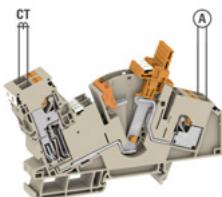


Voltage circuits do not require special operational safety other than avoiding short circuit on the secondary wiring if a VT is used. For current transformer assisted circuits, it is on the other hand of paramount importance to perform a preliminary shorting of a CT prior to any circuit opening.



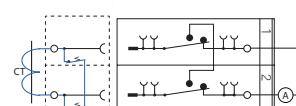
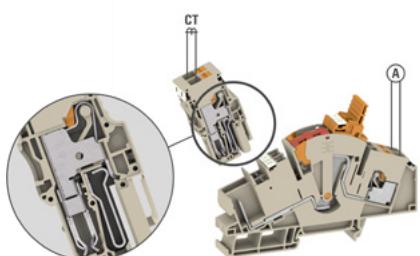
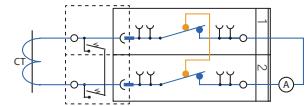
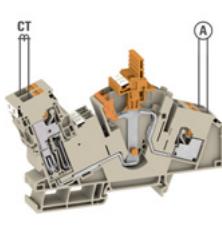
Normal operation - CT circuits

In normal operation, the plug is fully inserted. The circuit is closed and the current flows via the terminal blocks and the plug.



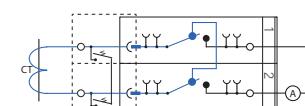
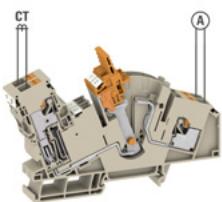
Make Before Break (MBB) - CT circuits

Throughout cabinet operational life or during assembly verifications, the circuit must be disconnected to allow further operations. To do so, the plug is partially extracted from the terminals. Before extraction is fully completed, a short circuit is established between its two poles. In a likewise manner, the same circuit status can be obtained by bringing the lever into its middle position.



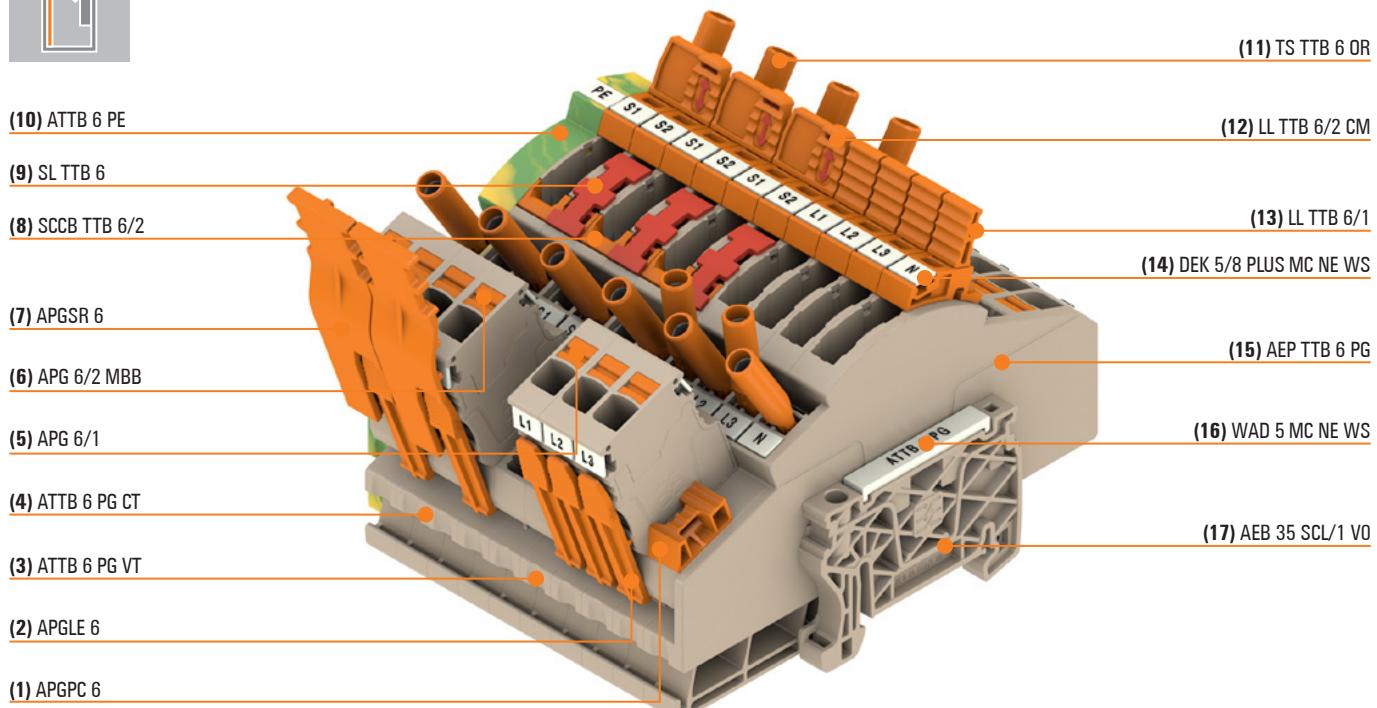
Disconnect & short circuit - CT circuits

To fully allow consequent operations, the plug is completely extracted from the base terminals, thus maintaining the previously established short circuit between its poles and subsequently opening the circuit. The circuit can be equally safely and completely opened completing the rotation of the lever to the left. As a result the system allows the operator to enjoy a redundant Make Before Break contact.



Klippon® Connect pluggable ATTB Range with PUSH IN technology

Technical details and order numbers

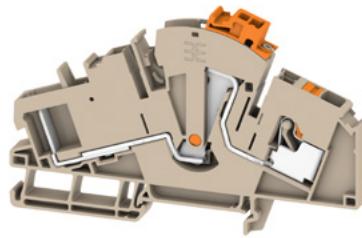


Overview of ordering data

Pos.	Description	Type	Dimensions	Color	Qty.	Order No.
	Mounting rail	TS 35X7.5/LL 2M/ST/ZN	35 x 7.5 x 2000 mm	silver	2	0514500000
1	Protective cover	APGPC 6	7.9 x 15.5 x 20 mm	orange	20	2762410000
2	Locking element	APGLE 6	6.5 x 2.49 x 35.96 mm	orange	20	2762400000
3	Instrument transformer wiring terminal block (Voltage)	ATTB 6 PG VT	8.1 x 109 x 68 mm	dark beige*	50	2762290000
4	Instrument transformer wiring terminal block (Current)	ATTB 6 PG CT	8.1 x 109 x 68 mm	dark beige*	50	2762280000
5	Standard feed-through plug	APG 6/1	8.1 x 24.3 x 51 mm	beige	50	2762320000
6	Plug with Make Before Breaker-funktion (MBB)	APG 6/2 MBB	16.2 x 27.5 x 51 mm	beige	20	2762330000
	Plug with Make Before Breaker-funktion (MBB)	APG 6/3 MBB	24.3 x 27.5 x 51 mm	beige	20	2762340000
7	Strain relief	APGSR 6	15.9 x 7.7 x 58.1 mm	orange	20	2762390000
8	Short circuit bridge	SCCB TTB 6/2	16 x 13.5 x 14 mm	orange*	25	2710190000
	Short circuit bridge	SCCB TTB 6/3	24 x 13.5 x 14 mm	orange*	25	2710200000
	Short circuit bridge	SCCB TTB 6/4	32 x 13.5 x 14 mm	orange*	25	2710210000
9	Switch lock	SL TTB 6	8 x 15 x 20 mm	red	50	2710220000
10	Instrument transformer wiring terminal block PE	ATTB 6 PE	8.1 x 69 x 100 mm	green/yellow	50	2710100000
11	Test plug	TS TTB 6 OR	6.3 x 9.5 x 51.5 mm	orange*	48	2710470000
12	Lever link for comparative measurement	LL TTB 6/2 CM	15.9 x 25.1 x 4.2 mm	orange*	50	2710370000
	Lever link for comparative measurement	LL TTB 6/3 CM	24 x 25.1 x 4.2 mm	orange	10	2726100000
	Lever link for comparative measurement	LL TTB 6/4 CM	32 x 25.1 x 4.2 mm	orange	10	2726110000
13	Lever link	LL TTB 6/1	7.6 x 19.7 x 4 mm	orange*	50	2710230000
	Lever link	LL TTB 6/2	15.7 x 19.7 x 8.2 mm	orange*	50	2710300000
	Lever link	LL TTB 6/3	23.8 x 19.7 x 8.2 mm	orange	10	2710440000
	Lever link	LL TTB 6/4	31.9 x 19.7 x 8.2 mm	orange	10	2710450000
	Lever link	LL TTB 6/6	48.1 x 19.7 x 8.2 mm	orange	10	2710460000
14	Terminal block marker	DEK 5/8 PLUS MC NE WS	8 x 2 x 5 mm	weiß	800	1046350000
15	Endplate	AEP TTB 6 PG	2.1 x 108.8 x 50.77 mm	dark beige	20	2762310000
16	Group marker	WAD 5 MC NE WS	6 x 11.7 x 33.3 mm	white	48	1112910000
17	End bracket	AEB 35 SCL/1 VO	6 x 52.6 x 36.5 mm	dark beige*	50	2661280000
	Cross-connection	ZQV 6N/6	46.1 x 3.1 x 34 mm	orange*	20	2733950000
	Cross-connection	ZQV 6N/7	54.2 x 3.1 x 34 mm	orange*	20	2733960000
	Cross-connection	ZQV 6N/10	78.5 x 3.1 x 34 mm	orange*	20	2733970000
	Cooling element	APGCE	2.25 x 11 x 3.3 mm	orange	50	1514490000

* More colored version you will find inside our online catalogue

ATTB 6 PG CT

6 mm²

Width/Height/Depth	mm
max. current / max. cond. cross-section	A/mm ²
Max. clamping range	mm ²

Technical data**Rated data**

Rated voltage	V
Rated current	A
for wire cross-section	mm ²
Rated impulse withstand voltage / Pollution severity	
Gauge to IEC 60947-1 / UL 94 flammability rating	
Approvals	

Clamped conductors (H05V/H07V)

Solid / Stranded	mm ²
Flexible / Flexible with ferrule	mm ²
Stripping length / Blade size	mm/-

Note

8.1 x 109 x 68	
30 / 10	Y Y Y — Y Y O
0.5...6	

Ordering data

Version	dark beige
Note	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500	300	300	
30	10	10	
6	AWG 22...8	AWG 22...8	
		6 kV / 3	
		A4 / V-0	

8.1 x 109 x 68	
30 / 10	Y Y Y — Y Y O
0.5...6	

In accordance with IEC 60947-7-1

IEC	UL	CSA	EN 60079-7
500	300	300	
30	29	29	
6	AWG 22...8	AWG 22...8	
		6 kV / 3	
		A4 / V-0	

Accessories

Plug-in connector with Make Before Break-funktion (MBB)	
2-pole	
3-pole	
Plug-in connector	
1-pole	
Short circuit bridge	
2-pole	
3-pole	
4-pole	
Cross-connector	
6-pole	
7-pole	
10-pole	
End plate	dark beige
Lever link	
1-pole	
2-pole	
for comparative measurement 2-pole	
Test plug	orange
Switch Lock	
Identification systems	

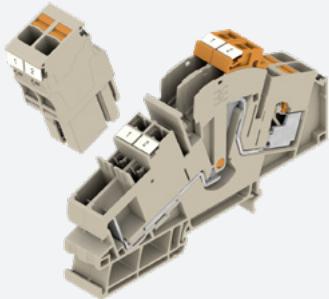
For detailed information on other accessories and application in the online catalogue

Type	current	Qty.	Order No.
APG 6/2 MBB	30 A	20	2762330000
APG 6/3 MBB	30 A	20	2762340000
APG 6/1			
ZCCB TTB 6/2	25	2710190000	
ZCCB TTB 6/3	25	2710200000	
ZCCB TTB 6/4	25	2710210000	
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000
AEP TTB 6 PG	20	2710170000	
LL TTB 6/1	50	2710230000	
LL TTB 6/2	50	2710300000	
LL TTB 6/2 CM	50	2710370000	
TS TTB 6 OR	48	2710470000	
SL TTB 6	50	2710220000	
DEK 5/8 PLUS MC NE WS	800	1046350000	
DEK 5/8 PLUS MC WS LRP	800	2770670000	

Type	current	Qty.	Order No.
APG 6/1	30 A	50	2762320000
ZQV 6N/6	41 A	20	2733950000
ZQV 6N/7	41 A	20	2733960000
ZQV 6N/10	41 A	20	2733970000
AEP TTB 6 PG	20	2710170000	
LL TTB 6/1	50	2710230000	
LL TTB 6/2	50	2710300000	
LL TTB 6/2 CM	50	2710370000	
TS TTB 6 OR	48	2710470000	
SL TTB 6	50	2710220000	
DEK 5/8 PLUS MC NE WS	800	1046350000	
DEK 5/8 PLUS MC WS LRP	800	2770670000	

Klippon® Connect TTB Range

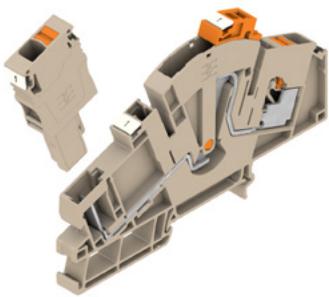
Accessories for ATTB 6 PG pluggable test-disconnect terminal Block



Plug with MBB function

The specially designed 2- and 3-pole self shorting plugs offer, in addition to all handling advantages, a guarantee make-before-break contact.

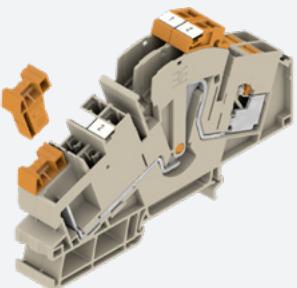
Type	Qty.	Order No.
APG 6/2 MBB	50	2762330000
APG 6/3 MBB	50	2762340000



Standard plug

For voltage circuits a simple feed-through plug offered with the ATTB 6 PG VT guarantees the same handling easiness and safety required also for voltage circuits.

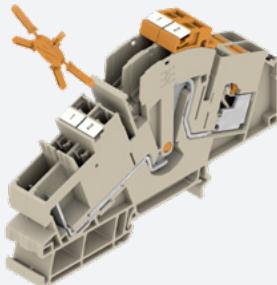
Type	Qty.	Order No.
APG 6/1	50	2762320000
MCV APG 6	50	2762380000



Protective cover

The cover of the plug contact offers protection from external influences, e.g. soiling from dust.

Type	Qty.	Order No.
APGPC 6	50	2762410000



Coding element

With the use of coding pins, individual coding options ensure trouble-free plug-in connection.

Type	Qty.	Order No.
APGCE	50	1514490000



Locking element

The plugs can be securely and easily fixed to the base terminal by using a locking element. The locking element avoids an unintentional disconnection of the plugs from the base terminal and ensures maximum safety.

Type	Qty.	Order No.
APGLE 6	50	2762400000



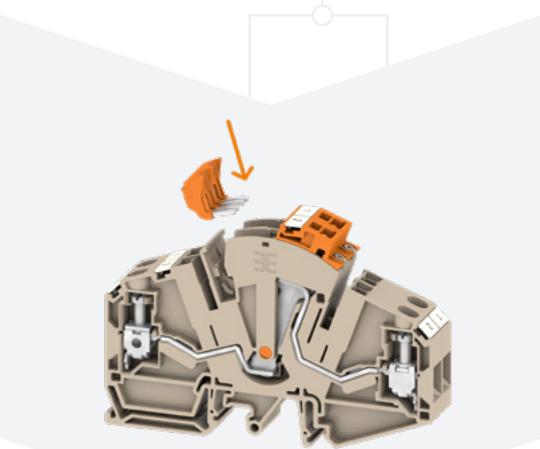
Strain relief

The strain relief protects the contact against mechanical stress and protects the connector against inadvertent release from the contact point

Type	Qty.	Order No.
APGSR 6	50	2762390000

Application examples*

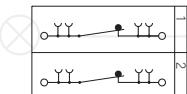
Changing a Protection/Metering device



Planning and installation: Equipping the terminal blocks with accessories

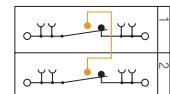
1. SCCB TTB 6 short circuit bridge installation in progress

The short circuit bridge is inserted quickly and easily on the transformer side of the terminal block in its dedicated channel. Once mounted, the short circuit bridge cannot be removed from the application.



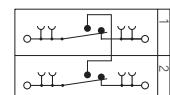
2. SCCB TTB 6 short circuit bridge installation completed

When inserted, depending on the position of the disconnect lever, an electrical connection (short circuit) between the two terminal blocks can be realised.



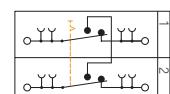
3. LL TTB 6 lever link installation in progress

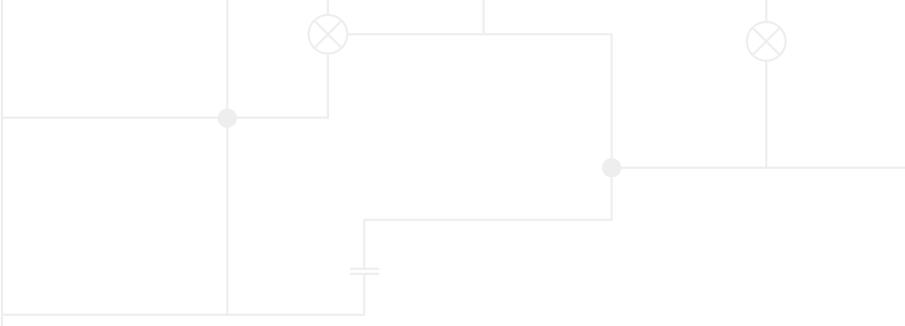
The lever link is plugged into the housings of the disconnect lever of the respective terminal blocks from above and creates a mechanical connection between them. Once mounted, the lever link cannot be removed from the application.



4. LL TTB 6 lever link installation completed

The mechanical connection between the lever mechanisms allows simultaneous opening or closing of two or more disconnect levers.

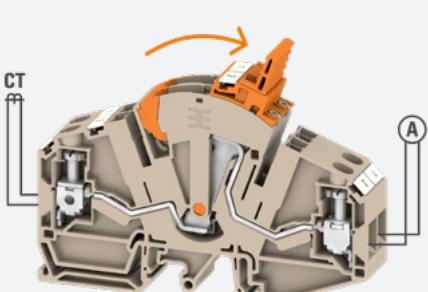
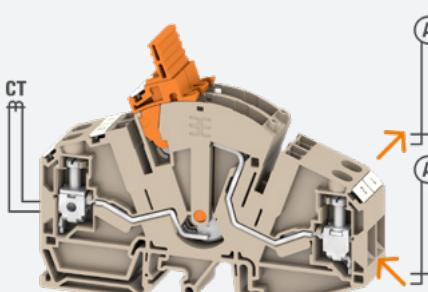
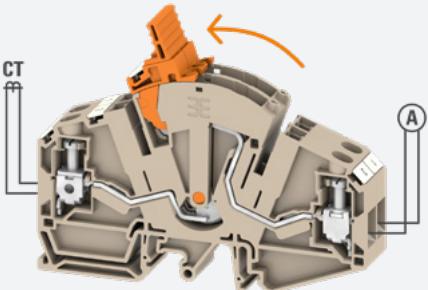
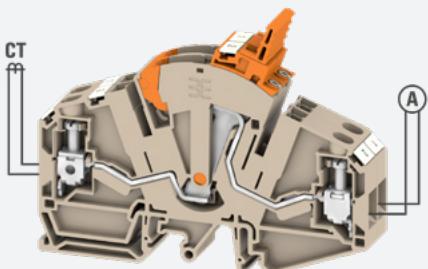
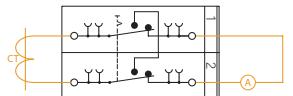




Installation: Wiring transformer and ammeter wiring

Wiring of current transformer and ammeter

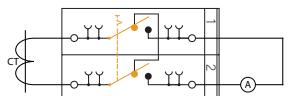
The transformer will be connected in the clamping units upstream the disconnect lever and the ammeter will be connected in the clamping units downstream the disconnect lever.



Operation: Changing an ammeter

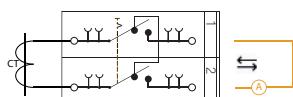
1. Switching the lever link

Switching the lever link causes an automatic short circuit (make before break mechanism) on the secondary wiring of the current transformer. This prevents the voltage on the current transformer from surging and protects it from damage leading to its destruction.



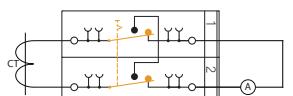
2. Replacing the ammeter

After short-circuiting the current transformer side and simultaneously disconnecting the circuit through the lever switching, the ammeter can be replaced easily and safely.



3. Restoring the lever link back into original position

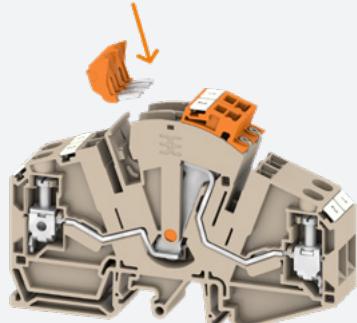
Switching backwards the lever, restores the entire arrangement into its original status. The transition from the automatic short circuit back to the initial position is realised smoothly and safely.



*Illustrations and functionalities are referred for all versions, including pluggable.

Application examples*

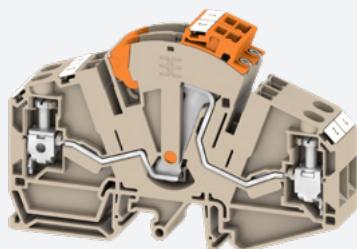
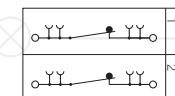
Performing a comparative measurement



Planning and installation: Equipping the terminal blocks with accessories

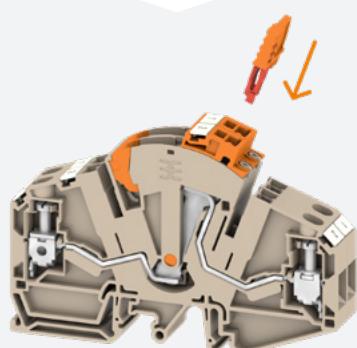
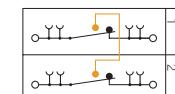
1. SCCB TTB 6 short circuit bridge installation in progress

The short circuit bridge is inserted quickly and easily on the transformer side of the terminal block in its dedicated channel. Once mounted, the short circuit bridge cannot be removed from the application.



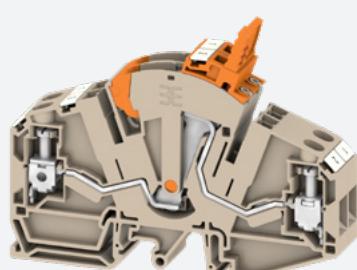
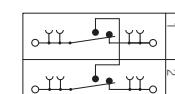
2. SCCB TTB 6 short circuit bridge installation completed

When inserted, depending on the position of the disconnect lever, an electrical connection (short circuit) between the two terminal blocks can be realised.



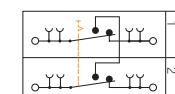
3. LL TTB 6 CM lever link installation in progress

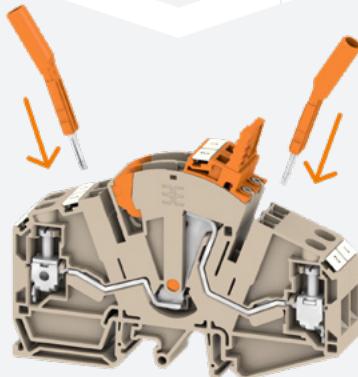
The CM lever link (having long, asymmetrical, red coloured foot) is plugged into the housings of the disconnect lever of the respective terminal blocks from above and creates a mechanical connection between them. Once mounted, the lever link cannot be removed from the application.



4. LL TTB 6 CM lever link installation completed

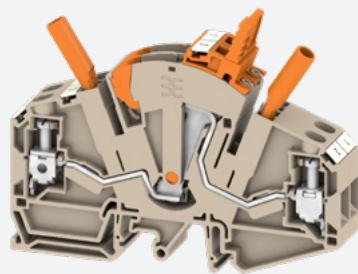
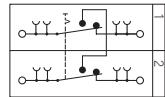
The mechanical connection of the lever mechanisms allows simultaneous opening or closing of two or more disconnect levers. By lifting the LL TTB 6 CM, the two (or more) disconnect levers of the terminal blocks are disengaged from each other and can be switched independently. Prior to any re-energising of the circuit, the CM needs to be pushed down into original position and the circuit closed.





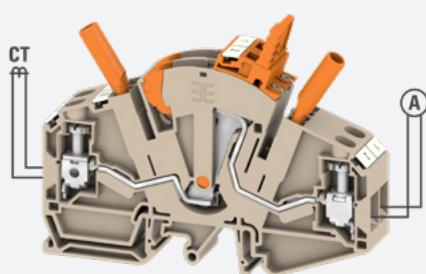
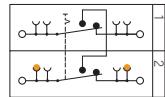
5. TS TTB 6 test sockets installation in progress

The TS TTB 6 test sockets are inserted into the bespoke housings provided in the terminal blocks from above. Once inserted, the test sockets cannot be removed from the installation.



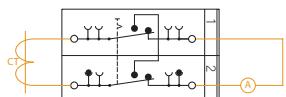
6. TS TTB 6 test sockets installation completed

The test sockets are used to connect test devices with a standard 4.0 plug with widths up to 10 mm into the terminal. Test sockets are arranged at an angle, therefore all standard measurements (even adjoining) can be realised within the terminal width of 8.1 mm. Once mounted, the test socket cannot be removed from the application.



Installation: Wiring the transformer and the ammeter

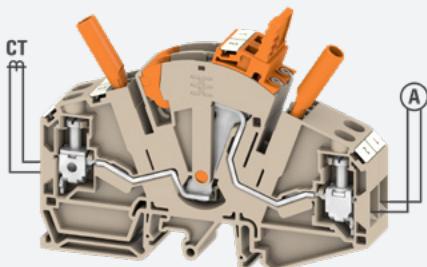
The transformer will be connected in the clamping unit upstream the disconnect lever and the ammeter will be connected in the clamping units downstream the disconnect lever.



*Illustrations and functionalities are referred for all versions, including pluggable.

Application examples*

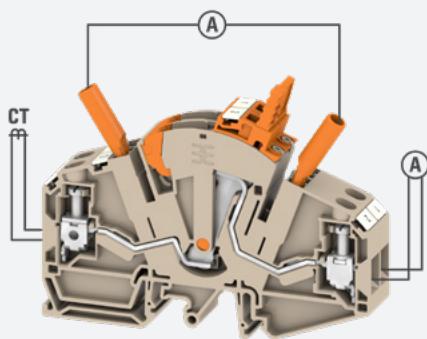
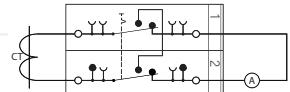
Performing a comparative measurement



Operation: Performing a comparative measurement

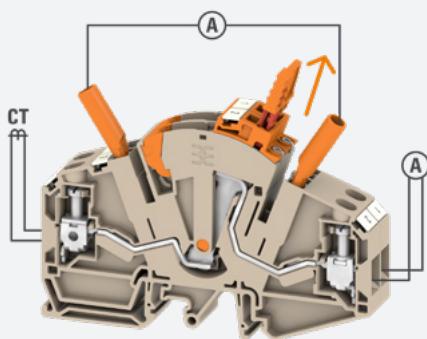
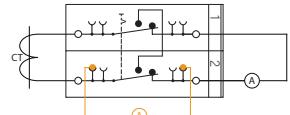
1. Configuration correctly equipped

The installation of the required accessories to equip the terminal arrangement for comparative measurement and also the wiring of the primary side as well as the secondary side, has already been carried out. The installation is correctly prepared to perform the required operations.



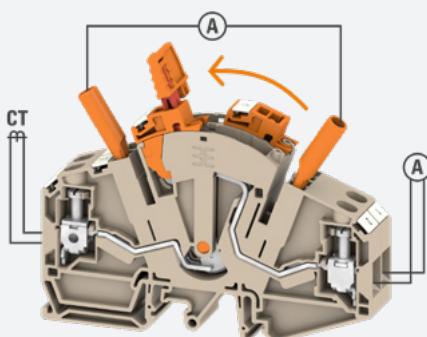
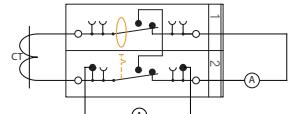
2. Connection of a reference measuring (calibrated) instrument

The reference measuring (calibrated) instrument is connected via standard 4.0 plugs to the test sockets on a terminal block. The connection is made inserting in parallel the calibrated instrument to the terminal block, where the disconnection will take place.



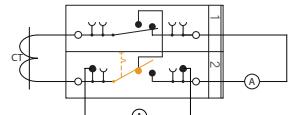
3. Lifting up the LL TTB 6 CM lever link

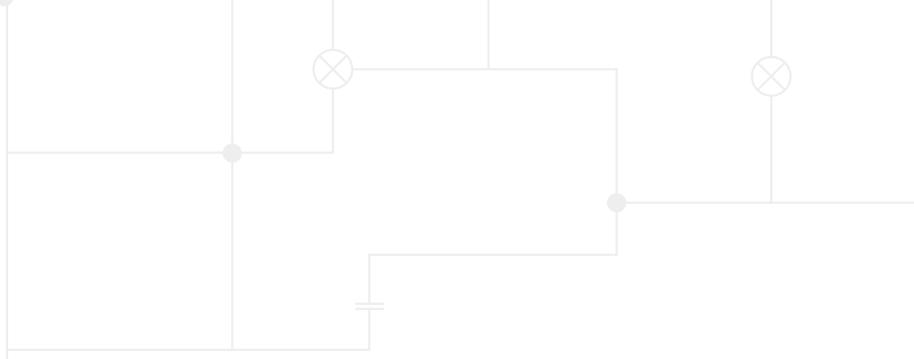
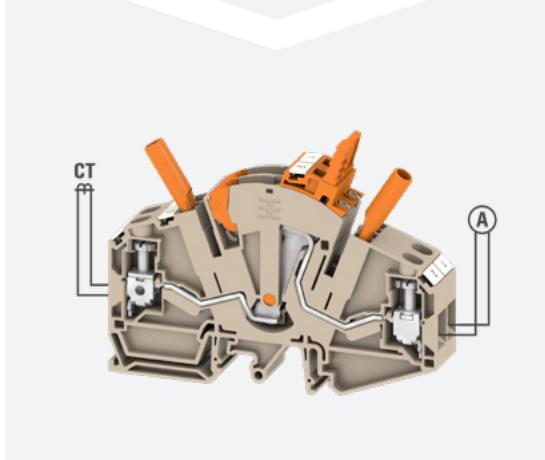
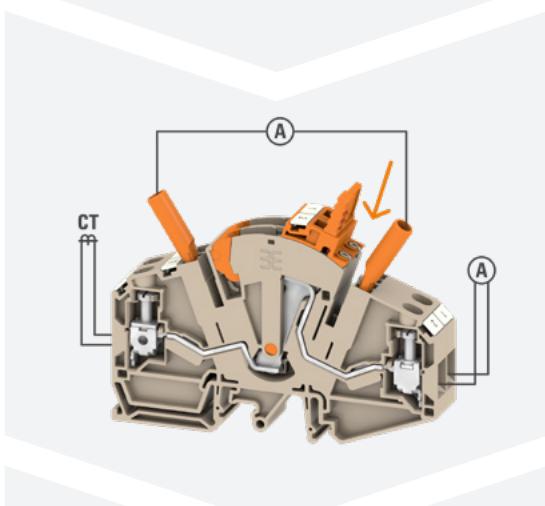
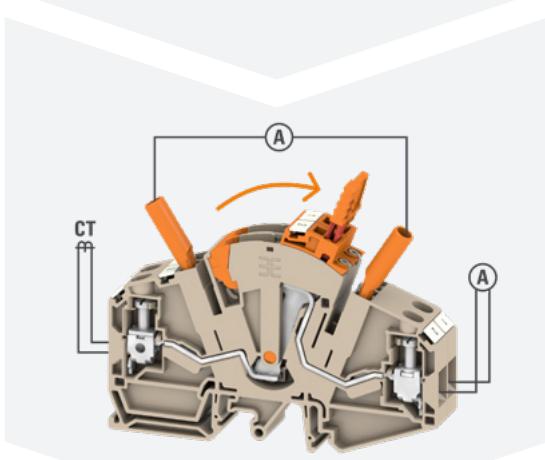
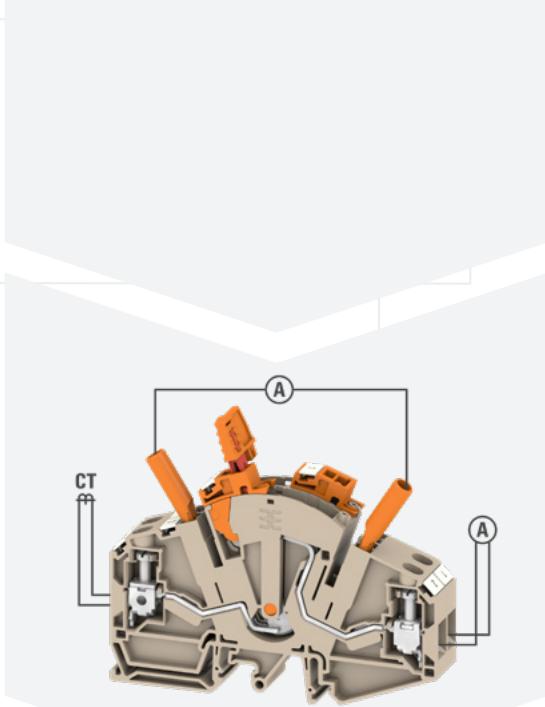
Lifting up the lever link LL TTB 6 CM causes a mechanical decoupling of the two disconnect levers. Now the two disconnect levers can be operated independently from each other within this application.



4. Switching the LL TTB 6 CM lever link

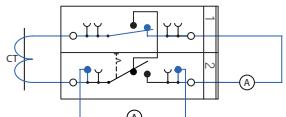
By switching the previously decoupled lever link, the current flow is diverted from the terminal block through the now parallel-connected reference measuring instrument.





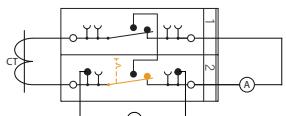
5. Performing the comparative reading of the two ammeters

The values measured by the ammeter connected downstream can now be compared with the values given by the reference meter since both instruments are reading the same current. The comparison measurement has now been successfully completed and the correct functional verification of the ammeter connected downstream the terminal has been carried out.



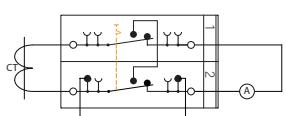
6. Restoring the lever link back into original position

Switching backwards the lever, restores the entire arrangement into its original status. The transition from the comparative measurement status back to the initial position is realised smoothly and safely.



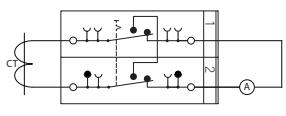
7. Pressing down the LL TTB 6 CM lever link

Pressing down the LL TTB 6 CM lever link restores the mechanical connection of the two disconnect levers within the application.



8. Disconnecting of the reference measuring instrument

The reference measurement instrument is therefore disconnected from the installation by simply removing its plugs from the test sockets of the terminal block and the installation is restored in the initial status



*Illustrations and functionalities are referred for all versions, including pluggable.

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