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CLIPLINE complete

The modular system kit for energy technology

PHOENIX CONTACT
INSPIRING INNOVATIONS

PHOENIX CONTACT – in dialogue with customers and partners worldwide

Phoenix Contact is a global market leader in the field of electrical engineering, electronics, and automation. Founded in 1923, the family-owned company now employs around 12,800 people worldwide. A sales network with over 50 sales subsidiaries and more than 30 additional sales partners guarantees customer proximity directly on site, anywhere in the world.

Our range of services consists of products surrounding various different electrotechnical applications. This includes numerous connection technologies for device manufacturers and machine building, components for modern control cabinets, and tailor-made solutions for many applications and industries, such as automobile production, wind energy, photovoltaics, the process industry or applications in the field of water supply, power distribution, and transportation infrastructure.

Global player with personal customer contact

Company independence is an integral part of our corporate policy. Phoenix Contact therefore relies on in-house competence and expertise a range of contexts: the design and development departments constantly come up with innovative product ideas, developing special solutions to meet customer requirements. Numerous patents emphasize the fact that many of Phoenix Contact's products have been developed in-house.

CLIPLINE complete – the modular system kit for energy technology

Phoenix Contact has provided the power supply sector with test disconnect terminal blocks for all current transformer and voltage transducer applications for many decades. In addition to the standard modular terminal blocks, the test disconnect terminal blocks are an integral part of the Phoenix Contact product portfolio.

The new ME series test disconnect terminal blocks from the CLIPLINE complete system enable you to easily and individually build measuring transducer sets. The plug-in accessories for testing and short circuiting the current transformers as well as the potential distribution can be placed inside the terminal strip, depending on the application. All switching statuses inside the terminal strip are clearly recognizable.

The FAME plug-in test system represents the further development of these switchable terminal blocks. With the modular system, you can now perform manual testing operations automatically, safely, and more quickly. Suitable for every application, the modular system can be directly integrated into the control cabinet panel or used as a DIN rail version.

Regardless of the testing system you select, all of them utilize the standardized accessories of the CLIPLINE complete system and reduce your installation and storage costs.

CLIPLINE complete – The modular system kit for energy technology

From the well-known test disconnect terminal block through to the FAME plug-in test system, Phoenix Contact provides the ideal solution for each of your applications. The individually applicable, uniform system accessories, the open choice of connection technology and installation type make the CLIPLINE complete system the functional system kit for energy technology.

FAME –
Fast and Modular Energy System

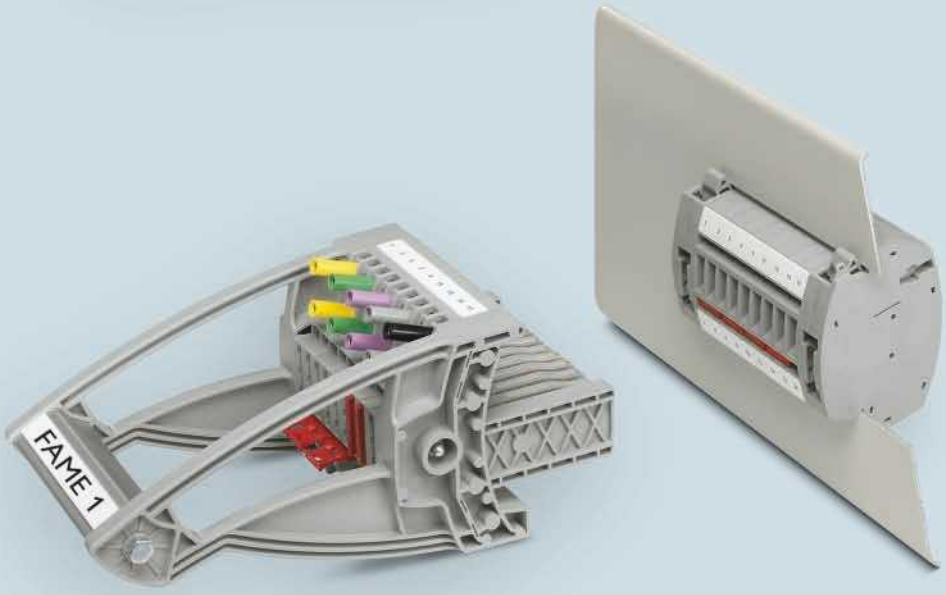
The gradual decentralization of energy generation, due especially to the supply of renewable energies, is increasing the number of switchgears and interfaces that must be checked regularly. In order to do the additional testing this requires without spending more time and money, it is necessary to combine complex switching operations automated in the test block and route them into the control cabinet door if necessary. The FAME testing system was developed specifically for this requirement. It offers the highest level of availability with maximum safety.

Interconnected wiring concept

For your energy switchgears, Phoenix Contact offers an interconnected and innovative wiring concept. Innovative products ranging from the plug with automatic short-circuit function for protective devices and compact marshalling terminals with pluggable marshalling field to COMBI terminals for a pluggable potential distribution are available for your wiring needs. For more information on this, visit the modular terminal block product area on our website.

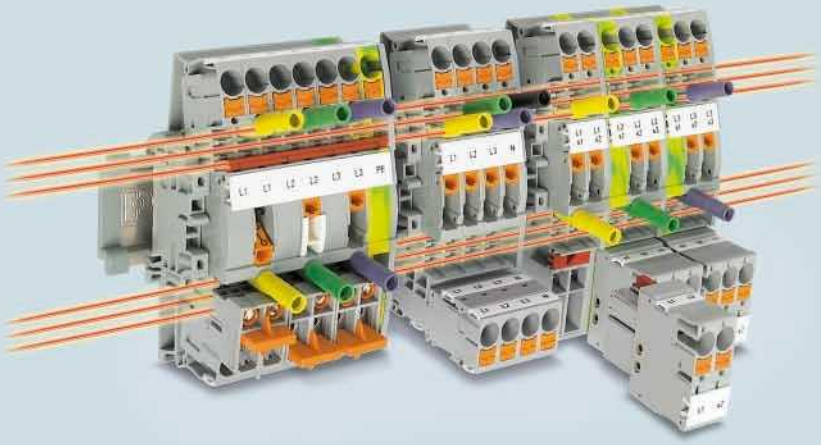
FAME 2 – plug-in test system

The system consists of a test terminal strip and a test plug. Testing is concentrated in only one block using automatic leading short circuit as a programmable forced switching sequence.



FAME 1 – plug-in test system

The system consists of a test terminal strip, test plug, and power plug. Testing is concentrated in individual blocks (current transformer, voltage transformer and signals) using automatic leading short circuit as a parallel switching sequence.

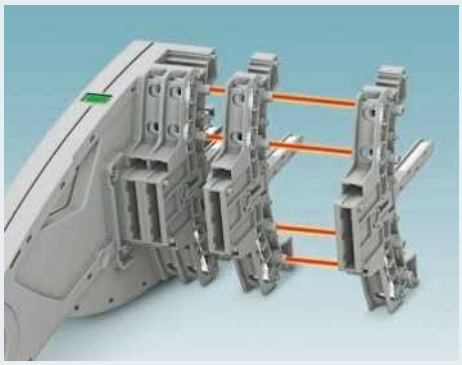


ME test disconnect – terminal blocks

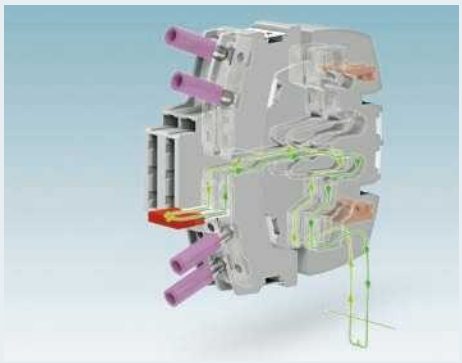
The system consists of single terminal blocks, which can be individually aligned according to the application. The short circuit is triggered manually using switching jumpers and jumpers or an automatically short-circuiting plug. Testing is carried out as a serial switching sequence, per transducer.

FAME – the innovative plug-in test system
System properties at a glance

FAME is the innovative plug-in test system for all measuring and testing tasks in network protection technology for medium and high-voltage switchgear. With the modular system, you can now perform manual testing operations automatically, safely, and more quickly. Suitable for every application, the modular system can be directly integrated into the control cabinet panel or used as a DIN rail version.



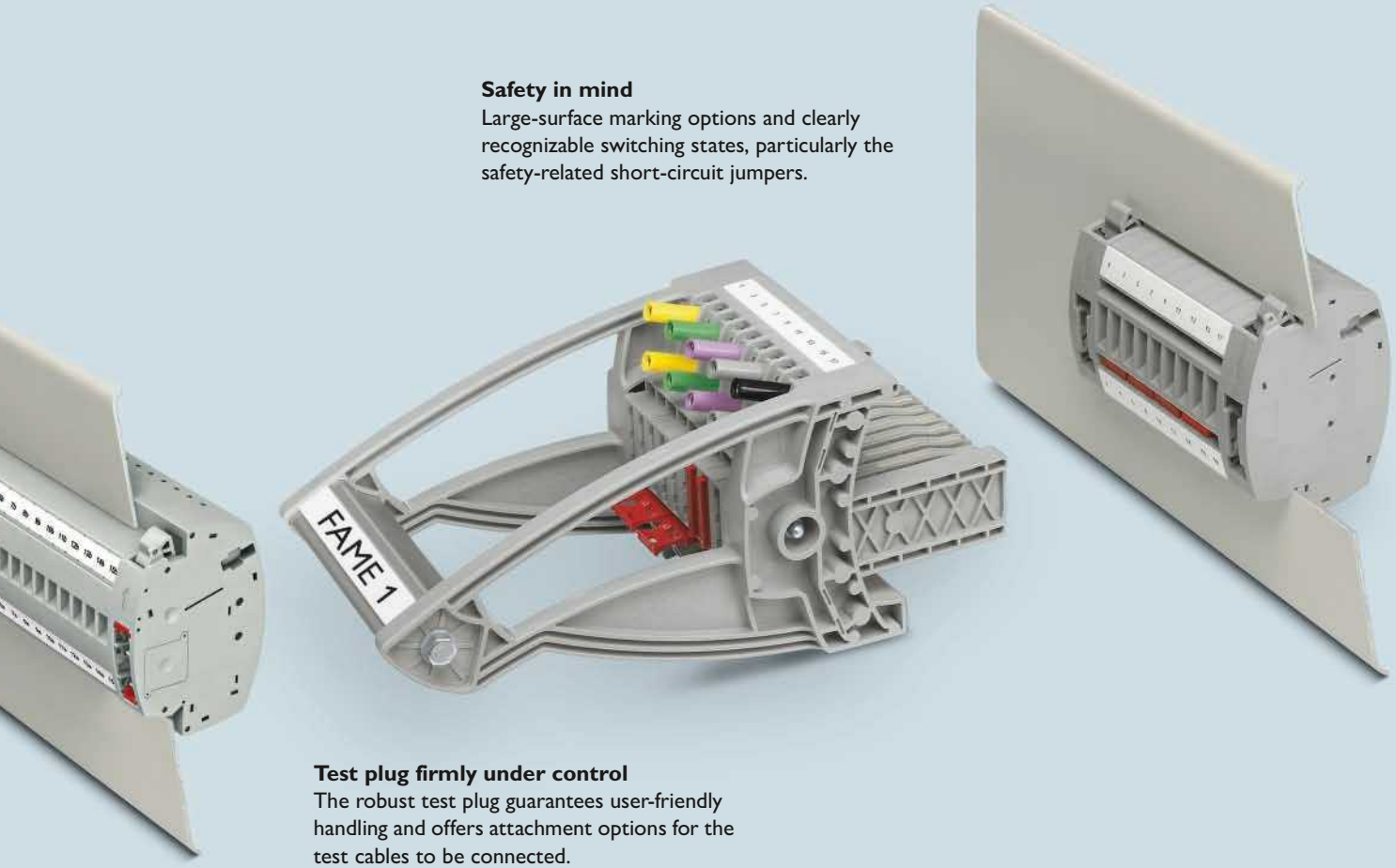
Modular design
The system's compact and modular design provides the right number of positions for every application, both for the test plugs and the pin strips.



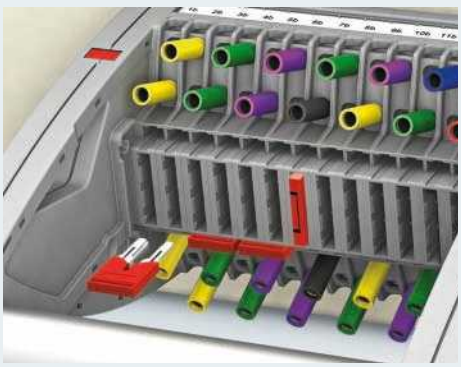
Automatic leading transformer short circuit
The leading, automatically generated transformer short circuit offers the highest degree of safety during testing.

Simple star point bridging
In addition to the two marking grooves, the test terminal strips for wall mounting also offer two function shafts, or six function shafts in the case of the DIN rail version, inside the control cabinet for forming and grounding the star point.

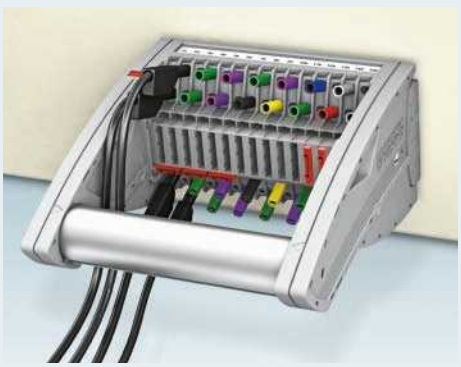
Safety in mind
Large-surface marking options and clearly recognizable switching states, particularly the safety-related short-circuit jumpers.



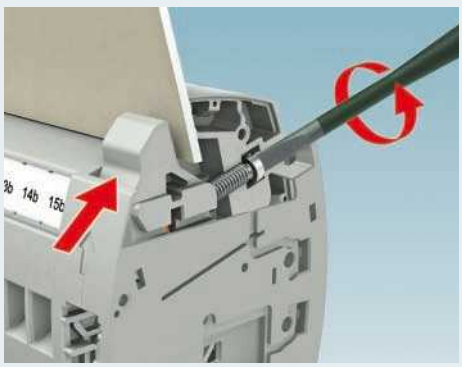
Test plug firmly under control
The robust test plug guarantees user-friendly handling and offers attachment options for the test cables to be connected.



Flexible application
Thanks to the optional use of jumpers, all test circuits can be implemented in the plug. Horizontally aligned, as leading short-circuit jumper - vertically aligned as through connection in the plug.

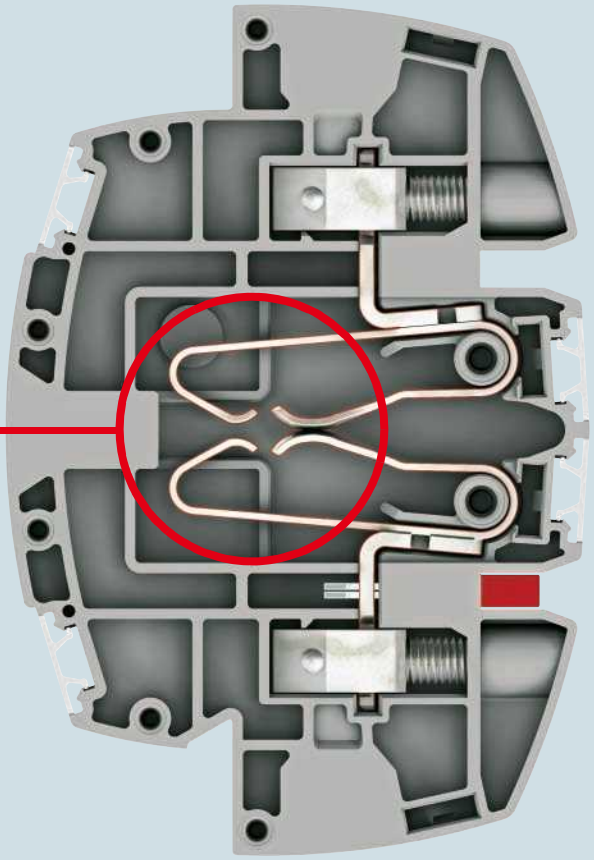


Maximum flexibility when testing
The offset test socket arrangement enables the use of CAT III and CAT IV/1000 V safety test leads according to EN 61010-031 in a confined space.



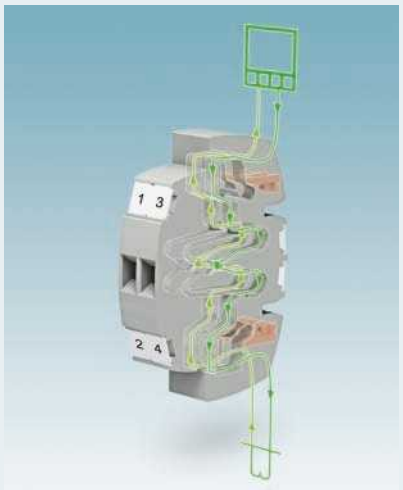
Easy mounting
The patented wall fastening is easy to use and has a robust design. Large tolerances in the plate cutout of up to 4 mm are compensated for by the eccentric tappet function.

FAME 2 – modular plug-in test system without power plug



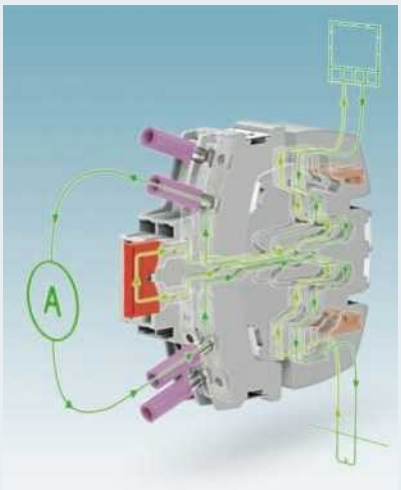
N/C function

Due to the FAME 2 system's N/C contact function, additional power plugs are not required for normal operation.



Normal operation
Additional power plugs are not required for normal operation, the measuring transducer operates safely and reliably. Optionally, the plug-in zone can be covered with a dummy plug to prevent unauthorized access.

Transformer short circuit
When replacing the protective device or even in the case of a relay test, a leading short circuit of the current transformer (for the purpose of signal splitting) can be easily carried out by means of a jumper inserted crossways.
Connected measuring transducers are safely protected against damage.

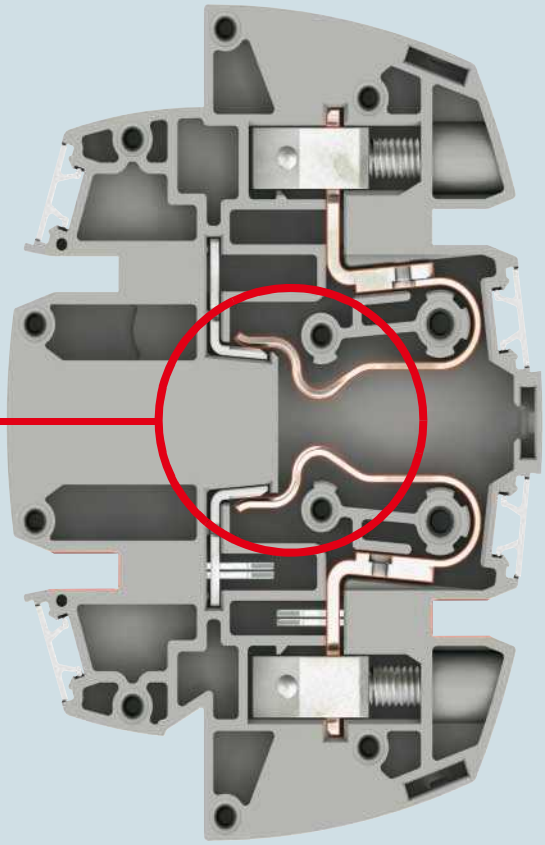


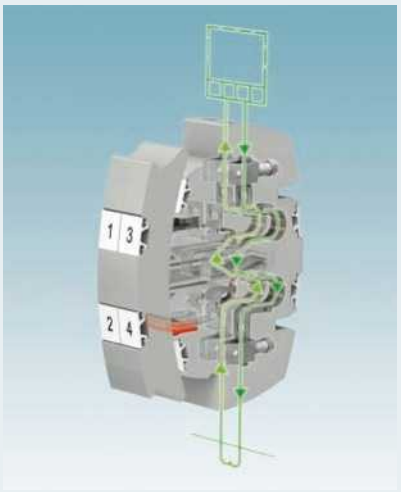
Test operation
With the jumper simply inserted lengthways in the test plug, the test equipment can be easily looped into the current path via the 4 mm test sockets.

FAME 1 – modular plug-in test system with power plug

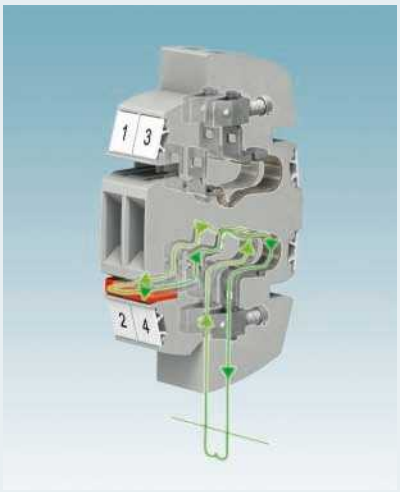
N/O function

Due to the FAME 1 system's N/O function, power plugs are required for normal operation.

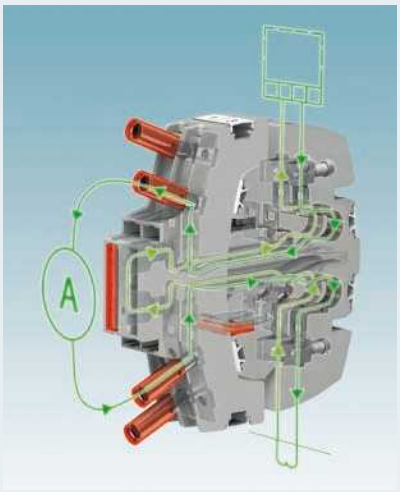




Normal operation
When the power plug is used, the transformer short circuit is automatically overridden and the measuring transducer operates safely.

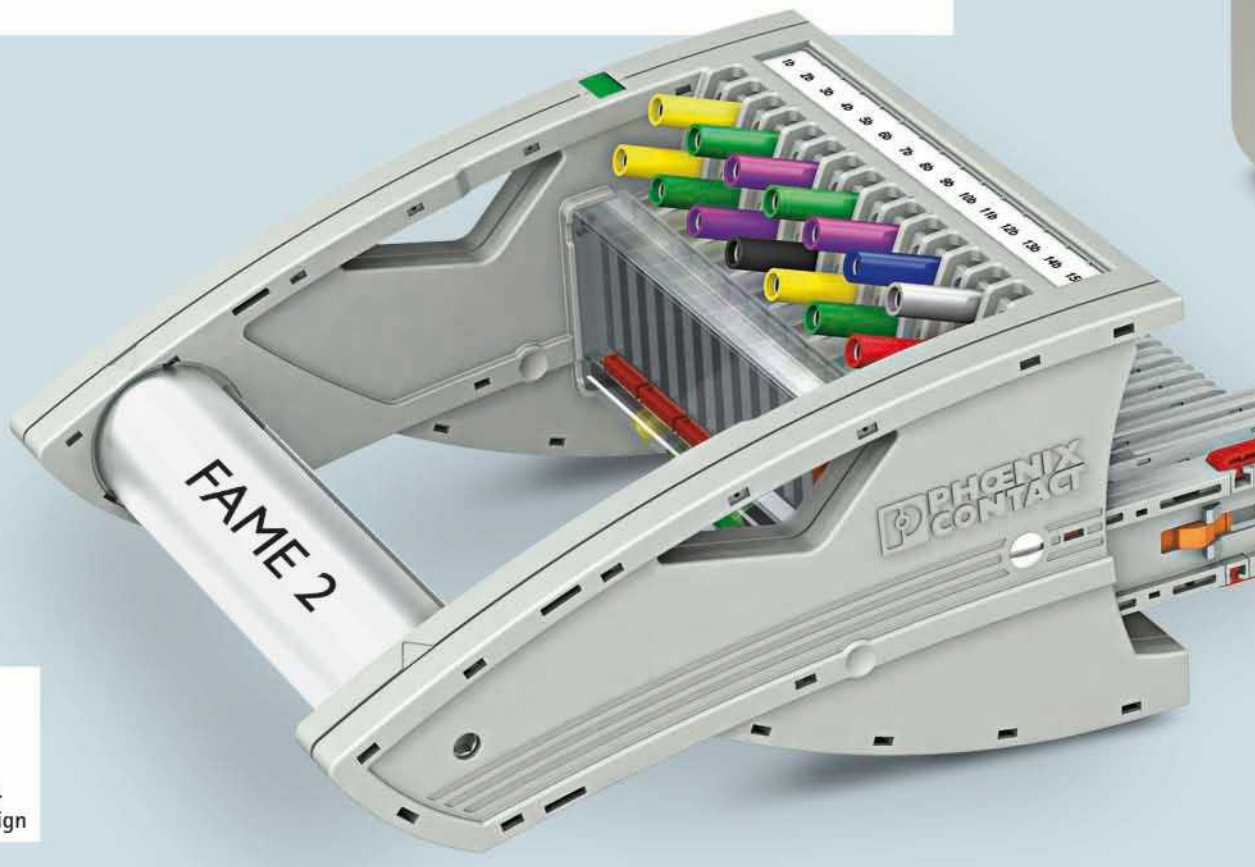


Transformer short circuit
If the plug is removed, the integrated switch contact automatically establishes a leading short circuit via the jumper used. Connected measuring transducers are safely protected against damage.



Test operation
When inserting the test plug, the ammeter connected to the test plug is first looped into the circuit. Then the transformer short circuit is automatically overridden.

FAME 2 – plug-in test system without power plug



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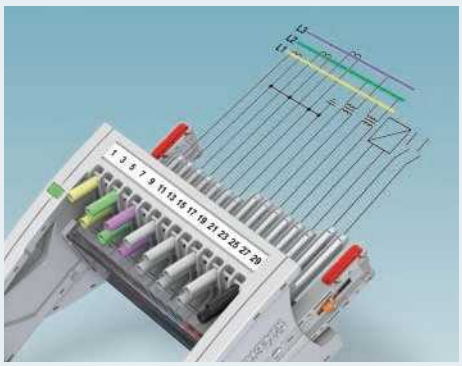
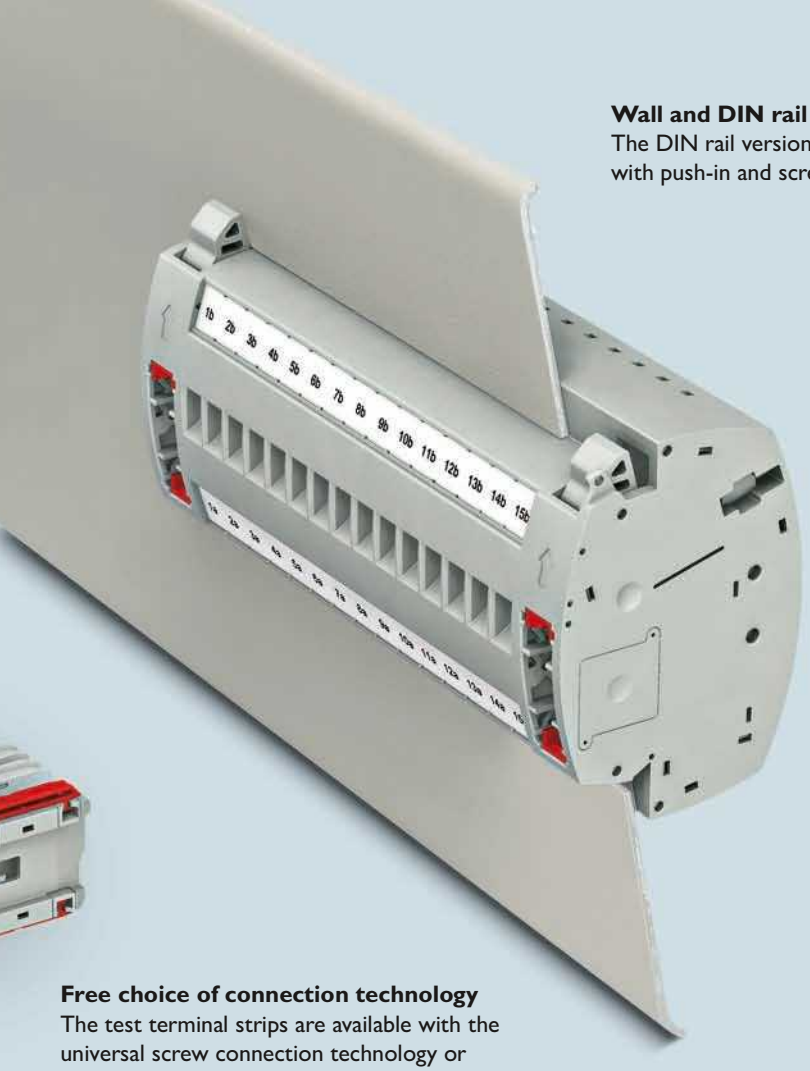


Safe with forced switching sequence
The test plug allows the switching sequence of the individual functions to be carried out with safe chronological disconnection with a switching operation via three different contact tab lengths. The plugs can be easily configured and then ordered with just a click of the mouse on the product area on the website.

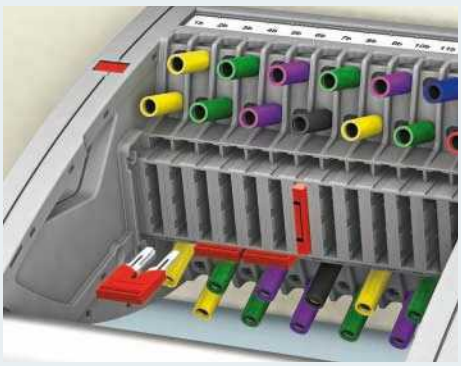
Patented twist grip
The patented twist mechanism supports defined unplugging of the test plug from the test terminal strip. An optical display and forced locking in the various switch positions offer maximum safety.

Safe assignment
Coding, whose use is optional, ensures clear assignment of plug and test terminal strip. In line with the VDE regulation, pre-assembled and coded test plugs with the corresponding test terminal strips are available for various switching tasks.



Wall and DIN rail mounting
The DIN rail version is also available with push-in and screw connection.

Free choice of connection technology
The test terminal strips are available with the universal screw connection technology or simple push-in connection technology.

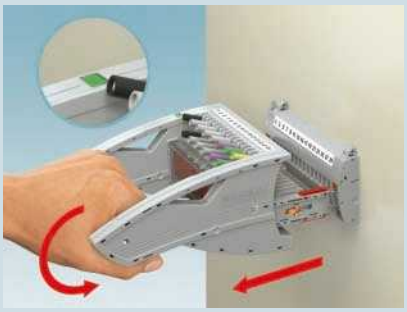


Safe transformer short circuit
Short-circuit jumper with standard jumpers and clearly identifiable positioning of short-circuit function in the test plug.
An optional cover profile protects against unauthorized activation.

Patented twist mechanism
for controlled and safe switching:

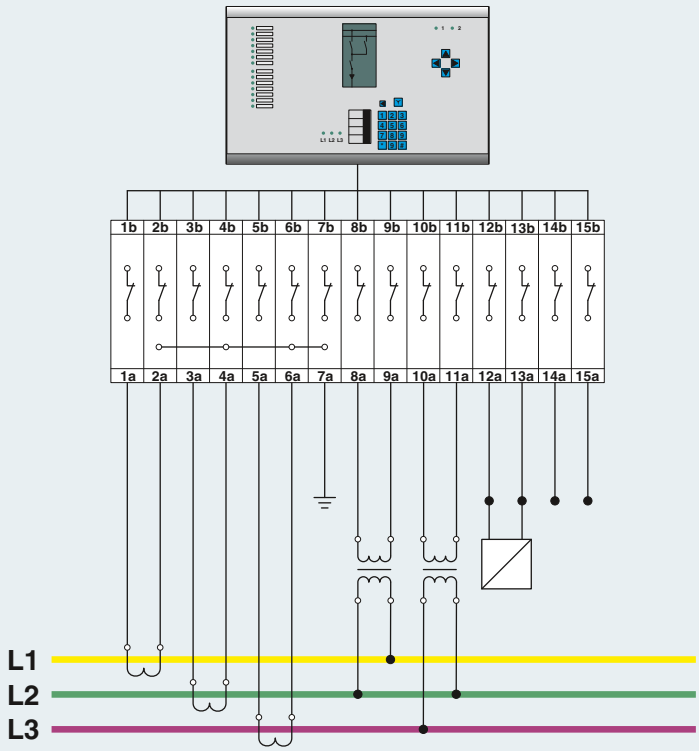
Step 1
Plug locked –
transformer and signals isolated safely.

Step 2
Plug partially unlocked –
transformer makes contact.

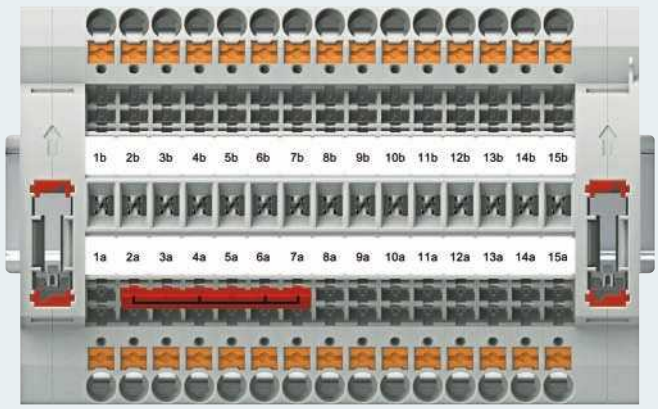


Step 3
Plug fully unlocked–
signal lines make contact.

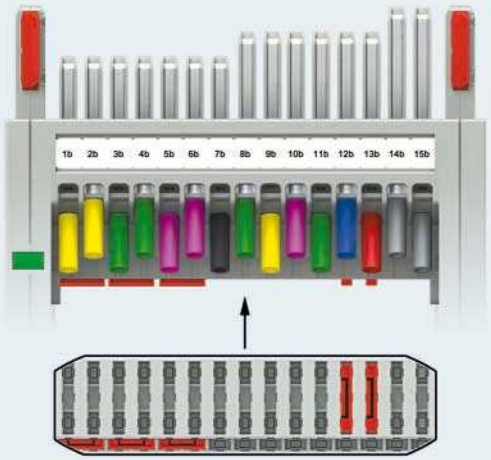
Supply system protection – circuit example with star point grounding



Test terminal strip with current transformer, voltage transformer, and signals



Test plug with current transformer, voltage transformer, and signals



Test terminal strip, dummy plug

Order No.	Type	Required quantity
3069864	PTRE 6-2/15	1
3069886	FBP 2/15	1

Jumper

3032470	FBS 6-8	1

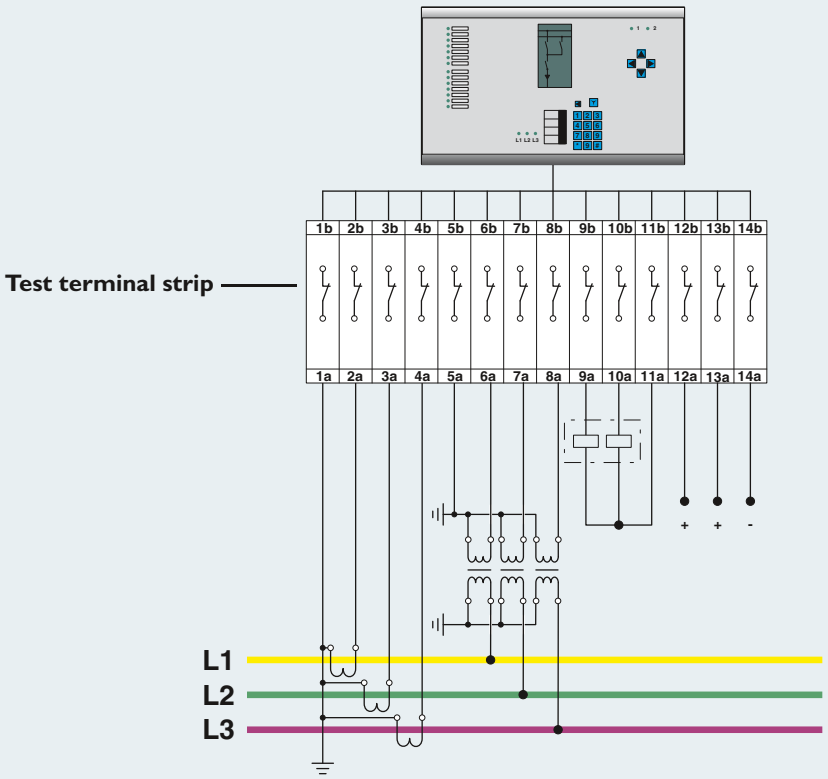
Test plug

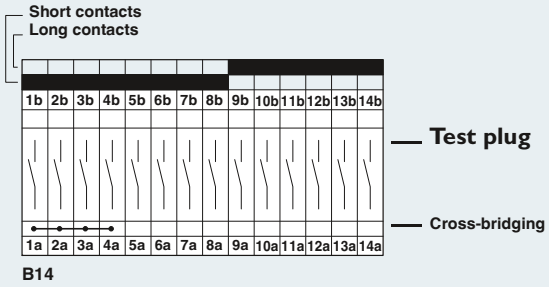
Order No.	Type	Required quantity
3001693	FTPR 2/15	1

Jumper

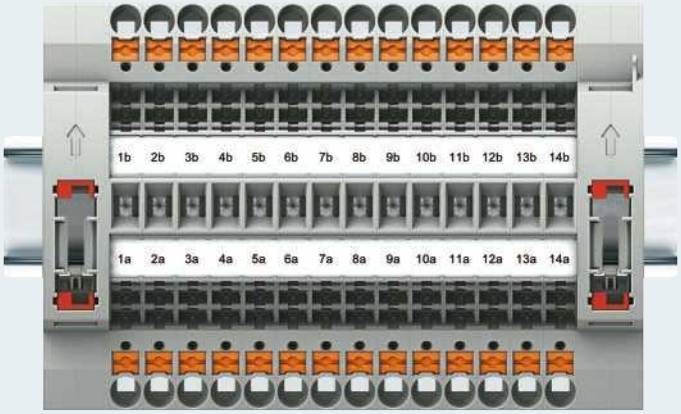
3030284	FBS 2-8	3
3030297	FBS 3-8	2

Supply system protection – circuit example according to VDE specification type B14

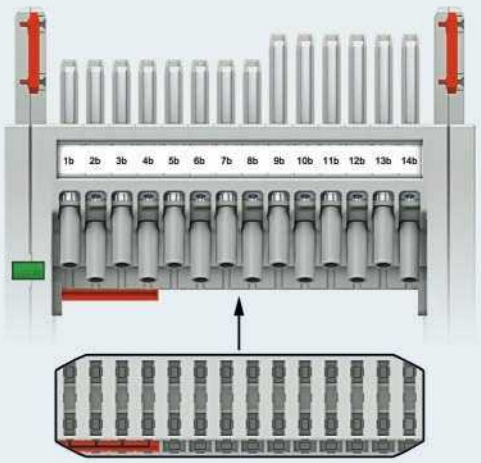




Test terminal strip for VDE type B14



Test plug for VDE type B14



Test terminal strip, dummy plug

Order No.	Type	Required quantity
3069453	PTRE 6-2/B14	1
3069501	FBP-2/B14	1

Test plug

	Order No.	Type	Required quantity
Twist grip	3069488	FTPR-2/B14	1
Standard grip	3069475	FTP-2/B14	1

Additional variants are located starting on page 18 or in the product area on our website, phoenixcontact.net/products.
Additional accessories, such as test sockets and coding profile, can be found starting on page 27.

Test terminal strip, multi-position with push-in connection

Technical data		Wall mounting	DIN rail mounting
Max. operating current/voltage	[A] / [V]	30 / 400[1])	30 / 400[1])
Nominal current/cross section	[A] / [mm²]	24 / 6	24 / 6
Rated cross section	[mm²]	6	6
Rated surge voltage	[kV]	5	5
Solid/AWG	[mm²]/—	0.5 - 10 / 20 - 8	0.5 - 10 / 20 - 8
Stranded/AWG	[mm²]/—	0.5 - 6 / 20 - 8	0.5 - 6 / 20 - 8
Stranded with ferrule/AWG	[mm²]/—	0.5 - 6 / 20 - 8	0.5 - 6 / 20 - 8
2 stranded conductors with a TWIN ferrule	[mm²]	0.5 - 1.5	0.5 - 1.5
Directly plug-in cross sections, solid/with ferrule	[mm²] / [mm²]	1 - 10 / 1 - 6	1 - 10 / 1 - 6
Stripping length	[mm]	12	12
Wall fastening tightening torque	[Nm]	0.8 - 1	—
Wall thickness	[mm]	1 - 4	—
Insulation material		PA	PA
Inflammability class according to UL 94		V0	V0

Positions	color	Type	Order No.	Type	Order No.
4-pos.	**gray**	**PTWE 6-2/4**	**3069827**	**PTRE 6-2/4**	**3069849**
5-pos.	**gray**	**PTWE 6-2/5**	**3069828**	**PTRE 6-2/5**	**3069850**
9-pos.	**gray**	**PTWE 6-2/9**	**3069832**	**PTRE 6-2/9**	**3069854**
10-pos.	**gray**	**PTWE 6-2/10**	**3069833**	**PTRE 6-2/10**	**3069855**
12-pos.	**gray**	**PTWE 6-2/12**	**3069835**	**PTRE 6-2/12**	**3069861**
14-pos.	**gray**	**PTWE 6-2/14**	**3069837**	**PTRE 6-2/14**	**3069863**
15-pos.	**gray**	**PTWE 6-2/15**	**3069838**	**PTRE 6-2/15**	**3069864**
17-pos.	**gray**	**PTWE 6-2/17**	**3069840**	**PTRE 6-2/17**	**3069866**
19-pos.	**gray**	**PTWE 6-2/19**	**3069842**	**PTRE 6-2/19**	**3069868**
20-pos.	**gray**	**PTWE 6-2/20**	**3069843**	**PTRE 6-2/20**	**3069869**
21-pos.	**gray**	**PTWE 6-2/21**	**3069844**	**PTRE 6-2/21**	**3069870**
22-pos.	**gray**	**PTWE 6-2/22**	**3069845**	**PTRE 6-2/22**	**3069871**
25-pos.	**gray**	**PTWE 6-2/25**	**3069848**	**PTRE 6-2/25**	**3069874**

Test terminal strip, multi-position, with screw connection

Technical data		Wall mounting	DIN rail mounting
Max. operating current/voltage	[A] / [V]	30 / 400[1])	30 / 400[1])
Nominal current/cross section	[A] / [mm²]	24 / 6	24 / 6
Rated surge voltage	[kV]	5	5
Rated cross section	[mm²]	6	6
Solid/AWG	[mm²]/—	0.2 - 10 / 24 - 8	0.2 - 10 / 24 - 8
Stranded/AWG	[mm²]/—	0.2 - 10 / 24 - 8	0.2 - 10 / 24 - 8
Stranded with ferrule/AWG	[mm²]/—	0.25 - 6 / 24 - 8	0.25 - 6 / 24 - 8
Two conductors (of the same type) solid/stranded	[mm²] / [mm²]	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
2 stranded conductors with a TWIN ferrule	[mm²]	0.5 - 2.5	0.5 - 2.5
Stripping length	[mm]	10	10
Screw thread		M4	M4
Tightening torque	[Nm]	1.5 - 1.8	1.5 - 1.8
Tightening torque for wall fastening	[Nm]	0.8 - 1	—
Wall thickness	[mm]	1 - 4	—
Insulation material		PA	PA
Inflammability class according to UL 94		V0	V0

Positions	color	Type	Order No.	Type	Order No.
4-pos.	**gray**	**UTWE 6-2/4**	**3069650**	**UTRE 6-2/4**	**3069805**
5-pos.	**gray**	**UTWE 6-2/5**	**3069651**	**UTRE 6-2/5**	**3069806**
9-pos.	**gray**	**UTWE 6-2/9**	**3069656**	**UTRE 6-2/9**	**3069810**
10-pos.	**gray**	**UTWE 6-2/10**	**3069658**	**UTRE 6-2/10**	**3069811**
12-pos.	**gray**	**UTWE 6-2/12**	**3069660**	**UTRE 6-2/12**	**3069813**
14-pos.	**gray**	**UTWE 6-2/14**	**3069663**	**UTRE 6-2/14**	**3069815**
15-pos.	**gray**	**UTWE 6-2/15**	**3069664**	**UTRE 6-2/15**	**3069816**
17-pos.	**gray**	**UTWE 6-2/17**	**3069667**	**UTRE 6-2/17**	**3069818**
19-pos.	**gray**	**UTWE 6-2/19**	**3069672**	**UTRE 6-2/19**	**3069820**
20-pos.	**gray**	**UTWE 6-2/20**	**3069673**	**UTRE 6-2/20**	**3069821**
21-pos.	**gray**	**UTWE 6-2/21**	**3069800**	**UTRE 6-2/21**	**3069822**
22-pos.	**gray**	**UTWE 6-2/22**	**3069801**	**UTRE 6-2/22**	**3069823**
25-pos.	**gray**	**UTWE 6-2/25**	**3069804**	**UTRE 6-2/25**	**3069826**

[1]) Derating curve available on request.

The dimensions of the panel cutouts can be found on page 37.

Other numbers of positions are available on request.

Additional accessories, such as test sockets and coding profile, can be found starting on page 27.

Test plug, multi-position, Contact tabs freely configurable

Technical data		Twist grip	Standard grip
Max. operating current/voltage	[A] / [V]	24 / 400[1])	24 / 400[1])
Nominal current/cross section	[A] / [mm²]	24 / 2.5	24 / 2.5
Stranded/AWG	[mm²]/—	0.5 - 2.5 / 20 - 14	0.5 - 2.5 / 20 - 14
Test socket screw tightening torque	[Nm]	0.5 - 0.6	0.5 - 0.6
Insulation material		PA	PA
Inflammability class according to UL 94		V0	V0

Positions	color	Type	Order No.	Type	Order No.
4-pos.	**gray**	**FTPR-2/4**	**3001681**	**FTP-2/4**	**3001706**
5-pos.	**gray**	**FTPR-2/5**	**3001683**	**FTP-2/5**	**3001707**
9-pos.	**gray**	**FTPR-2/9**	**3001687**	**FTP-2/9**	**3001711**
10-pos.	**gray**	**FTPR-2/10**	**3001688**	**FTP-2/10**	**3001712**
12-pos.	**gray**	**FTPR-2/12**	**3001690**	**FTP-2/12**	**3001714**
14-pos.	**gray**	**FTPR-2/14**	**3001692**	**FTP-2/14**	**3001716**
15-pos.	**gray**	**FTPR-2/15**	**3001693**	**FTP-2/15**	**3001717**
17-pos.	**gray**	**FTPR-2/17**	**3001696**	**FTP-2/17**	**3001720**
19-pos.	**gray**	**FTPR-2/19**	**3001698**	**FTP-2/19**	**3001723**
20-pos.	**gray**	**FTPR-2/20**	**3001699**	**FTP-2/20**	**3001724**
21-pos.	**gray**	**FTPR-2/21**	**3001700**	**FTP-2/21**	**3001725**
22-pos.	**gray**	**FTPR-2/22**	**3001701**	**FTP-2/22**	**3001726**
25-pos.	**gray**	**FTPR-2/25**	**3001704**	**FTP-2/25**	**3001729**

Test plug for individual test

Technical data		with cover
Max. operating current/voltage	[A] / [V]	24 / 400[2])
Nominal current/cross section	[A] / [mm²]	24 / 2.5
Rated cross section	[mm²]	6
Stranded/AWG	[mm²]/—	0.5 - 2.5 / 20 - 14
Test socket screw tightening torque	[Nm]	0.5 - 0.6
Insulation material		PA
Inflammability class according to UL 94		V0

Positions	color	Type	Order No.
1-pos.	**red**	**FTP-2/1**	**3069469**
4-pos.	**gray**	**FTP-2/4**	**3001706**

[1]) Rated surge voltage 5 kV

Other numbers of positions are available on request.

Ordering example: configurable test plug with twist grip function

To ensure that your order is correct, you need a defined view of how everything is counted.
This is achieved when the status window in the top view is located on the left-hand side.
Position 1 is then on the left.
Each position of a test plug is described by a contact tab feature that is selected.
The following features are possible:

S	Short contact tab, gray
M	Medium contact tab, gray
L	Long contact tab, gray
LGN	Long contact tab, green
N	No contact tab, gray

Each position with a contact tab comes fitted with two gray test sockets.

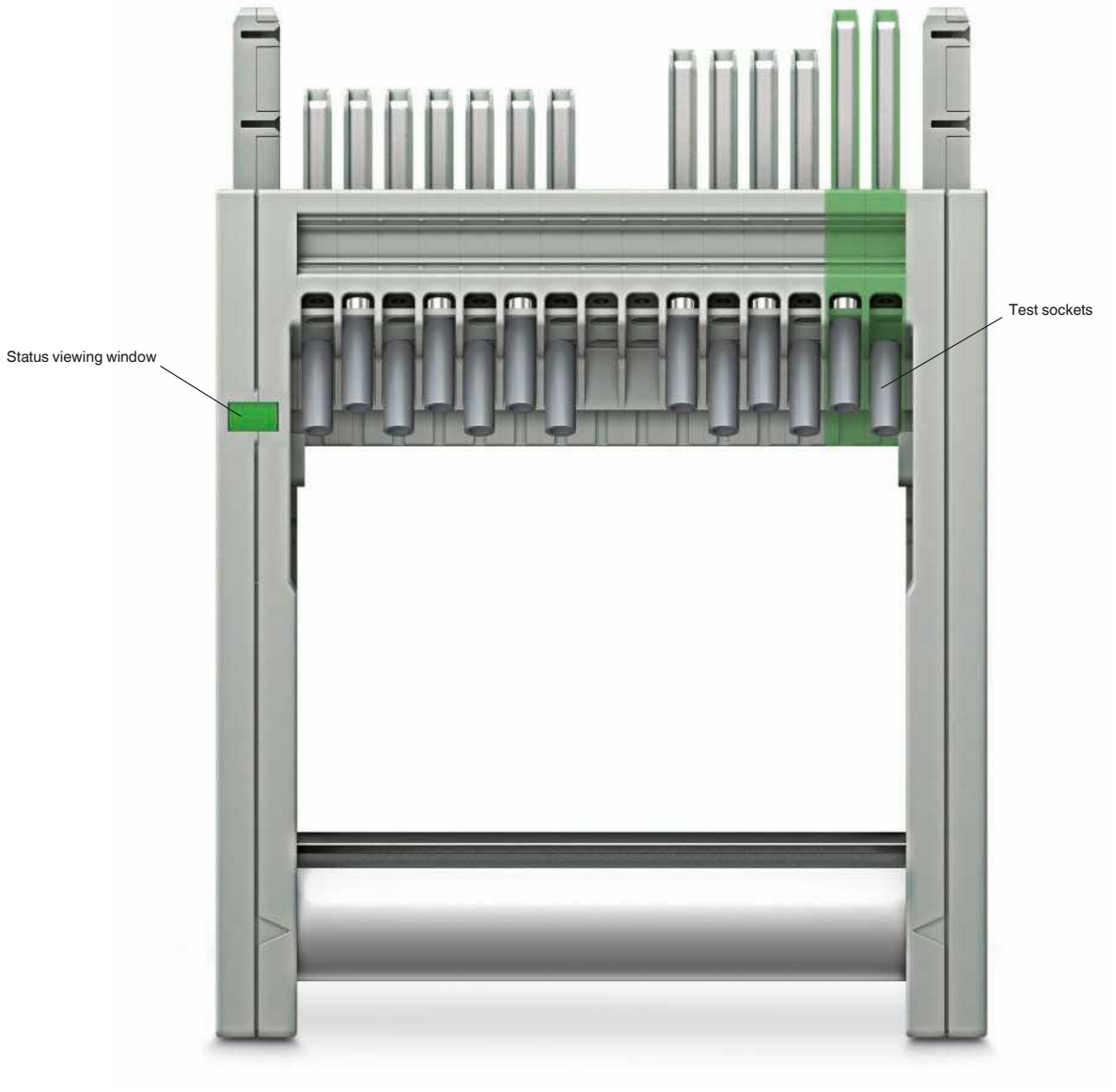
Simply configure and place your order with a click of the mouse
The test plugs can be easily configured and ordered with just a click of the mouse in the product area on our website at phoenixcontact.net/products.

Ordering example:
A 15-pos. test plug with twist grip needs to be configured as follows:

Pos. 1 Short contact tab, gray
Pos. 2 Short contact tab, gray
Pos. 3 Short contact tab, gray
Pos. 4 Short contact tab, gray
Pos. 5 Short contact tab, gray
Pos. 6 Short contact tab, gray
Pos. 7 Short contact tab, gray
Pos. 8 No contact tab, gray
Pos. 9 No contact tab, gray
Pos. 10 Medium contact tab, gray
Pos. 11 Medium contact tab, gray
Pos. 12 Medium contact tab, gray
Pos. 13 Medium contact tab, gray
Pos. 14 Long contact tab, green
Pos. 15 Long contact tab, green

The order data for this ordering example is therefore:

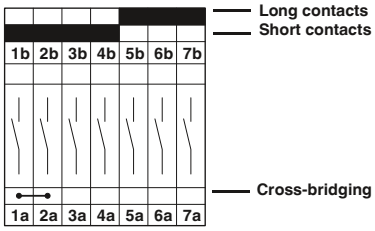
Order No.	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6	Pos. 7	Pos. 8	Pos. 9	Pos. 10	Pos. 11	Pos. 12	Pos. 13	Pos. 14	Pos. 15
3001693	S	S	S	S	S	S	S	N	N	M	M	M	M	LGN	LGN



VDE versions, 7-pos.

VDE type A7

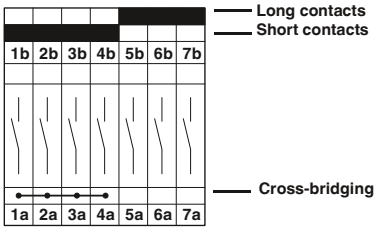
The VDE A7 version described here is suitable as a plug-in test system in single-system current, voltage, and power relays, wattmetric and ground fault wiper relays, detuning level controllers or reverse power protection for generators.



A7

VDE type B7

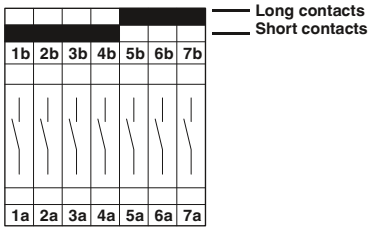
The VDE B7 version described here is suitable as a plug-in test system in digital differential protection as an addition to the F19 plug-in test system.



B7

VDE type E7

The VDE E7 version is suitable as a plug-in test system for single-level, automatic frequency load shedding (AFLS) and as rotor ground fault protection.



E7

Circuit diagram shows test terminal strip with inserted test plug.

VDE versions, 7-pos.

Test terminal strip Panel feed-through		Test terminal strip DIN rail		Test plug		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
With push-in connection		**With push-in connection**		**With twist grip**		**Can be sealed**	
PTWE 6-2/A7	**3069436**	**PTRE 6-2/A7**	**3069449**	**FTPR-2/A7**	**3069484**	**FBP-2/A7**	**3069497**
With screw connection		**With screw connection**		**With standard grip**			
UTWE 6-2/A7	**3069410**	**UTRE 6-2/A7**	**3069423**	**FTP-2/A7**	**3069470**		
							
With push-in connection		**With push-in connection**		**With twist grip**		**Can be sealed**	
PTWE 6-2/B7	**3069437**	**PTRE 6-2/B7**	**3069450**	**FTPR-2/B7**	**3069485**	**FBP-2/B7**	**3069498**
With screw connection		**With screw connection**		**With standard grip**			
UTWE 6-2/B7	**3069411**	**UTRE 6-2/B7**	**3069424**	**FTP-2/B7**	**3069471**		
							
With push-in connection		**With push-in connection**		**With twist grip**		**Can be sealed**	
PTWE 6-2/E7	**3069438**	**PTRE 6-2/E7**	**3069451**	**FTPR-2/E7**	**3069486**	**FBP-2/E7**	**3069499**
With screw connection		**With screw connection**		**With standard grip**			
UTWE 6-2/E7	**3069412**	**UTRE 6-2/E7**	**3069425**	**FTP-2/E7**	**3069472**		

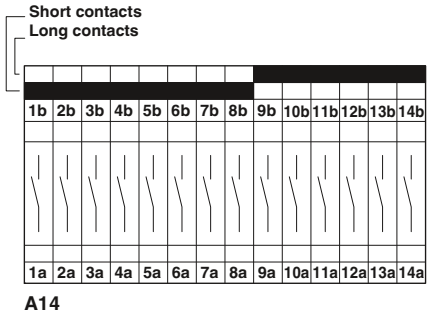
Technical data can be found on pages 14 to 16 or in the product area on our website at phoenixcontact.net/products.

The test terminal strips and plugs of the VDE types are completely labeled and delivered preassembled with coding profile and test sockets(gray).

VDE versions, 14-pos.

VDE type A14

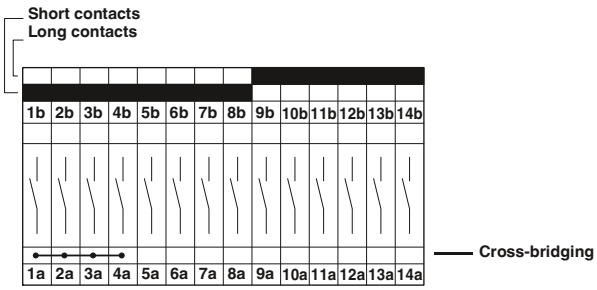
The VDE A14 version described here is suitable as a plug-in test system for three-stage automatic frequency load shedding (AFLS), as zero-power comparison protection, and as stator and rotor ground fault protection.



A14

VDE type B14

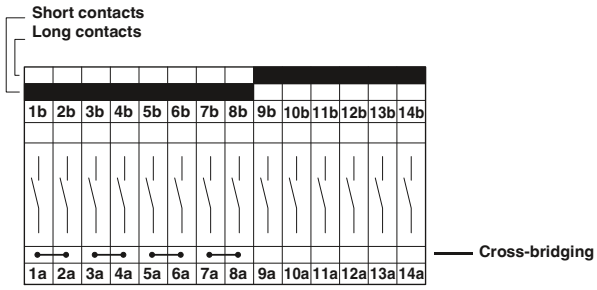
The VDE B14 version described here is suitable as a plug-in test system in overcurrent directional protection, distance protection for high and medium voltage, as well as voltage regulation.



B14

VDE type C14

The VDE C14 version described here is suitable as a plug-in test system in overcurrent time protection, unbalanced load protection, and stator ground fault protection for busbar operation.



C14

Circuit diagram shows test terminal strip with inserted test plug.

VDE versions, 14-pos.

Test terminal strip Panel feed-through		Test terminal strip DIN rail		Test plug		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
With push-in connection **PTWE 6-2/A14**	**3069439**	**With push-in connection** **PTRE 6-2/A14**	**3069452**	**With twist grip** **FTPR-2/A14**	**3069487**	**Can be sealed** **FBP-2/A14**	**3069500**
With screw connection **UTWE 6-2/A14**	**3069413**	**With screw connection** **UTRE 6-2/A14**	**3069426**	**With standard grip** **FTP-2/A14**	**3069474**		
							
With push-in connection **PTWE 6-2/B14**	**3069440**	**With push-in connection** **PTRE 6-2/B14**	**3069453**	**With twist grip** **FTPR-2/B14**	**3069488**	**Can be sealed** **FBP-2/B14**	**3069501**
With screw connection **UTWE 6-2/B14**	**3069414**	**With screw connection** **UTRE 6-2/B14**	**3069427**	**With standard grip** **FTP-2/B14**	**3069475**		
							
With push-in connection **PTWE 6-2/C14**	**3069441**	**With push-in connection** **PTRE 6-2/C14**	**3069454**	**With twist grip** **FTPR-2/C14**	**3069489**	**Can be sealed** **FBP-2/C14**	**3069502**
With screw connection **UTWE 6-2/C14**	**3069415**	**With screw connection** **UTRE 6-2/C14**	**3069428**	**With standard grip** **FTP-2/C14**	**3069476**		

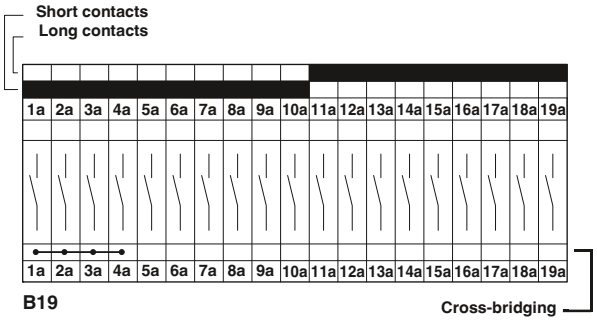
Technical data can be found on pages 14 to 16 or in the product area on our website at phoenixcontact.net/products.

The test terminal strips and plugs of the VDE types are completely labeled and delivered preassembled with coding profile and test sockets(gray).

VDE versions, 19-pos.

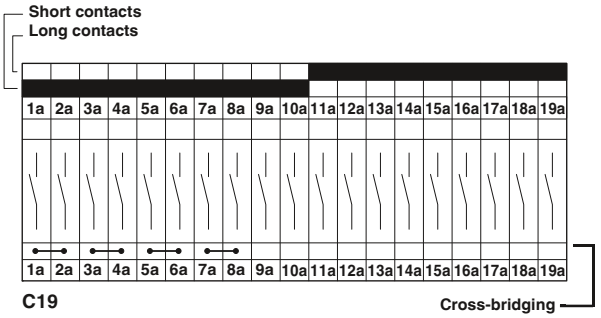
VDE type B19

The VDE B19 version described here is suitable as a plug-in test system in distance protection for high voltage.



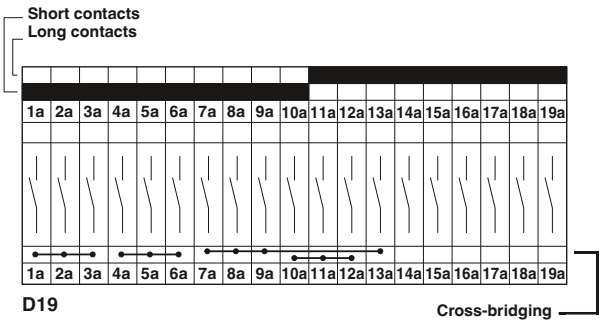
VDE type C19

The VDE C19 version described here is suitable as a plug-in test system in distance protection as system busbar protection, overcurrent directional protection, and current comparison protection for cables.



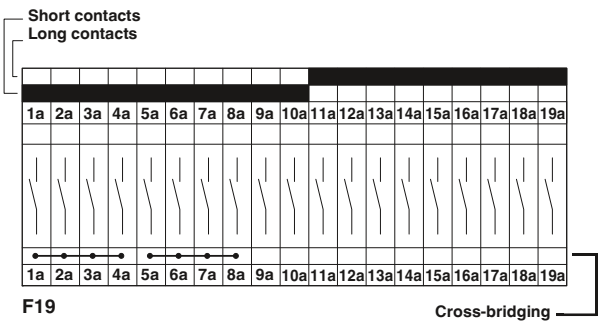
VDE type D19

The VDE D19 version described here is suitable as a plug-in test system for electromechanical differential protection for transformers.



VDE type F19

The VDE F19 version described here is suitable as a plug-in test system in electromechanical differential protection for transformers, generators, motors, and cables.



Circuit diagram shows test terminal strip with inserted test plug.

VDE versions, 19-pos.

Test terminal strip Panel feed-through		Test terminal strip DIN rail		Test plug		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
With push-in connection PTWE 6-2/B19	3069442	With push-in connection PTRE 6-2/B19	3069455	With twist grip FTPR-2/B19	3069490	Can be sealed FBP-2/B19	3069503
With screw connection UTWE 6-2/B19	3069416	With screw connection UTRE 6-2/B19	3069429	With standard grip FTP-2/B19	3069477		
							
With push-in connection PTWE 6-2/C19	3069443	With push-in connection PTRE 6-2/C19	3069456	With twist grip FTPR-2/C19	3069491	Can be sealed FBP-2/C19	3069504
With screw connection UTWE 6-2/C19	3069417	With screw connection UTRE 6-2/C19	3069430	With standard grip FTP-2/C19	3069478		
							
With push-in connection PTWE 6-2/D19	3069444	With push-in connection PTRE 6-2/D19	3069457	With twist grip FTPR-2/D19	3069492	Can be sealed FBP-2/D19	3069671
With screw connection UTWE 6-2/D19	3069418	With screw connection UTRE 6-2/D19	3069431	With standard grip FTP-2/D19	3069479		
							
With push-in connection PTWE 6-2/F19	3069445	With push-in connection PTRE 6-2/F19	3069458	With twist grip FTPR-2/F19	3069493	Can be sealed FBP-2/F19	3069675
With screw connection UTWE 6-2/F19	3069419	With screw connection UTRE 6-2/F19	3069432	With standard grip FTP-2/F19	3069480		

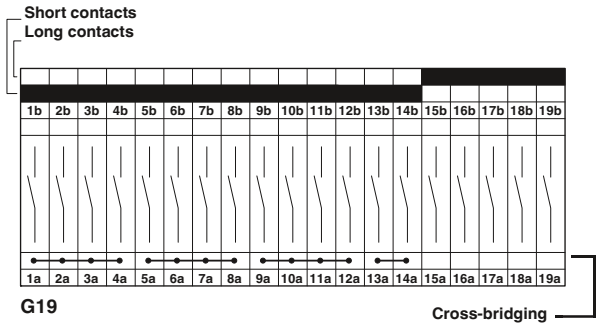
Technical data can be found on pages 14 to 16 or in the product area on our website at phoenixcontact.net/products.

The test terminal strips and plugs of the VDE types are completely labeled and delivered preassembled with coding profile and test sockets(gray).

VDE versions, 19-pos.

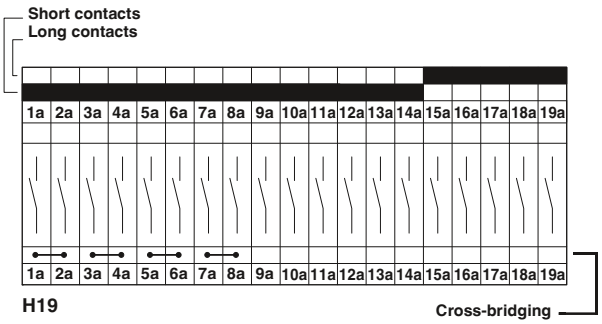
VDE type G19

The VDE G19 version described here is suitable as a plug-in test system in digital differential protection for transformers.



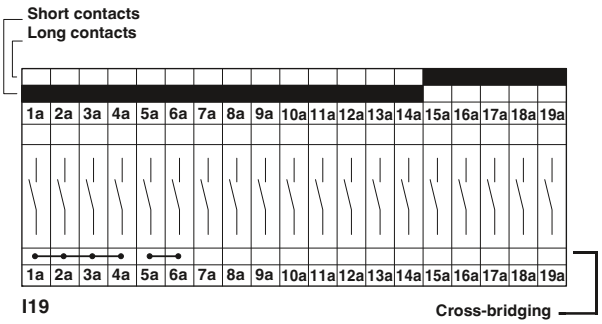
VDE type H19

The VDE H19 version described here is suitable as a plug-in test system in overcurrent directional protection and distance protection as system protection.



VDE type I19

The VDE I19 version described here is suitable as a plug-in test system in medium voltage, outlet, and coupling protection, including selective ground fault detection.



Circuit diagram shows test terminal strip with inserted test plug.

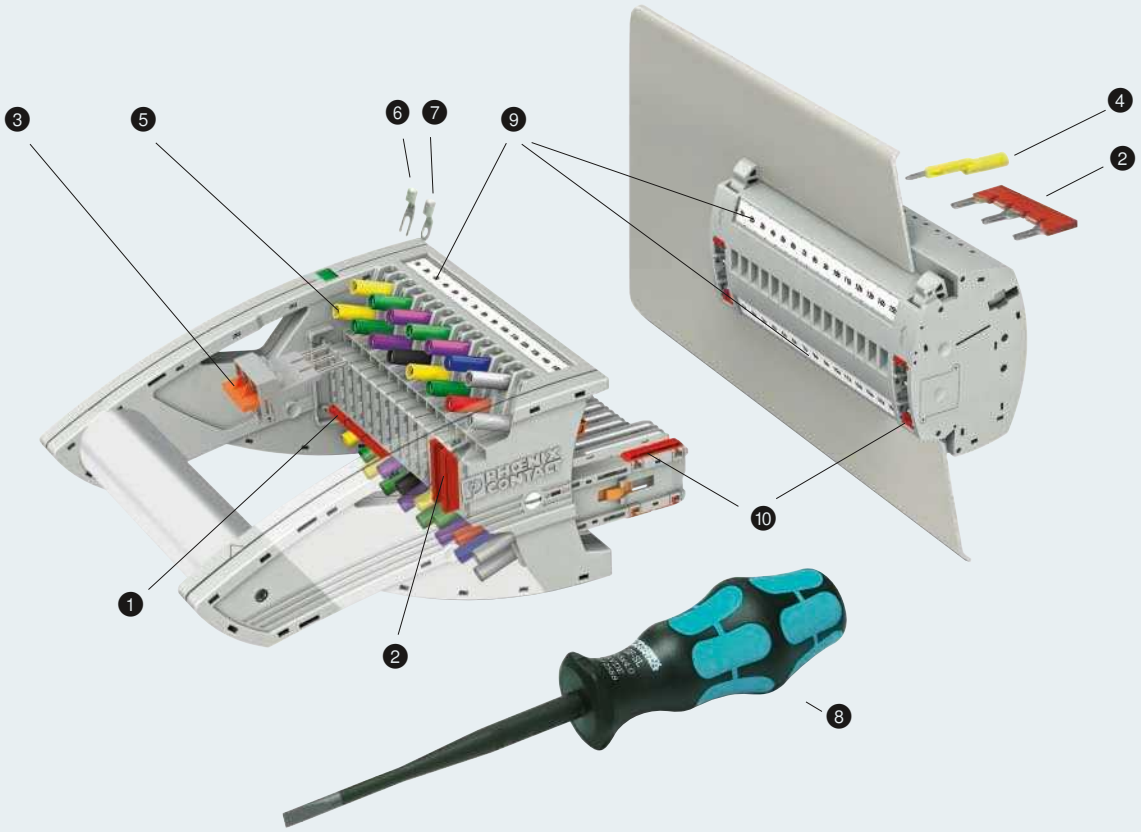
VDE versions, 19-pos.

Test terminal strip Panel feed-through		Test terminal strip DIN rail		Test plug		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
With push-in connection **PTWE 6-2/G19**	**3069446**	**With push-in connection** **PTRE 6-2/G19**	**3069459**	**With twist grip** **FTPR-2/G19**	**3069494**	**Can be sealed** **FBP-2/G19**	**3069676**
With screw connection **UTWE 6-2/G19**	**3069420**	**With screw connection** **UTRE 6-2/G19**	**3069433**	**With standard grip** **FTP-2/G19**	**3069481**		
							
With push-in connection **PTWE 6-2/H19**	**3069447**	**With push-in connection** **PTRE 6-2/H19**	**3069460**	**With twist grip** **FTPR-2/H19**	**3069495**	**Can be sealed** **FBP-2/H19**	**3069677**
With screw connection **UTWE 6-2/H19**	**3069421**	**With screw connection** **UTRE 6-2/H19**	**3069434**	**With standard grip** **FTP-2/H19**	**3069482**		
							
With push-in connection **PTWE 6-2/I19**	**3069448**	**With push-in connection** **PTRE 6-2/I19**	**3069461**	**With twist grip** **FTPR-2/I19**	**3069496**	**Can be sealed** **FBP-2/I19**	**3069678**
With screw connection **UTWE 6-2/I19**	**3069422**	**With screw connection** **UTRE 6-2/I19**	**3069435**	**With standard grip** **FTP-2/I19**	**3069483**		

Technical data can be found on pages 14 to 16 or in the product area on our website at phoenixcontact.net/products.

The test terminal strips and plugs of the VDE types are completely labeled and delivered preassembled with coding profile and test sockets (gray).

FAME 2 – accessories



1

	Jumpers						
	2-pos.	3-pos.	4-pos.	5-pos.	6-pos.	10-pos.	16-pos.
PTWE ... PTRE ... UTWE ... UTRE ... FTPR ... FTP ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 6-8 3032470	FBS 10-8 3030323	FBSR 16-8 3033816

2

	Jumpers, pre-assembled and printed					
	3-pos. Pos. 1, 3	4-pos. Pos. 1, 4	5-pos. Pos. 1, 3, 5	10-pos. Pos. 1, 4, 7, 10	16-pos. Pos. 1, 6, 11, 16	16-pos. Pos. 1, 7, 13, 16
PTWE ... PTRE ... UTWE ... UTRE ... FTPR ... FTP ...	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402	FBSR 1/6/11/16-8 3033820	FBSR 1/7/13/16-8 3033821

3

	Jumpers, with extraction tool[1])			Switching jumpers		
	2-pos.	3-pos.	4-pos.	2-pos.	3-pos.	4-pos.
FTPR ... FTP ...	FBSRH 2-8 3033802	FBSRH 3-8 3033803	FBSRH 4-8 3033804	SB-MER 2-8 3000587	SB-MER 3-8 3000588	SB-MER 4-8 3000589

FAME 2 – accessories

❹

	Plug-in test plug adapter, 4 mm diameter								
	Orange	Yellow	Green	Violet	Black	Blue	Red	Gray	Brown
PTWE ... PTRE ... UTWE ... UTRE ... FTPR ... FTP ...	PAI-4-FIX OG 3034455	PAI-4-FIX YE 3032745	PAI-4-FIX GN 3032758	PAI-4-FIX VT 3032761	PAI-4-FIX BK 3032774	PAI-4-FIX BU 3032729	PAI-4-FIX RD 3032732	PAI-4-FIX GY 3032790	PAI-4-FIX BN 3032787

❺

	Screwable test sockets, 4 mm diameter								
	Transparent	Red	Blue	Yellow	Green	Violet	Black	Gray	Brown
FTPR ... FTP ...	PSBJ-URTK 6 FARBLOS 3026450	PSBJ-URTK 6 RD 3026719	PSBJ-URTK 6 BU 3026434	PSBJ-URTK 6 YE 3026405	PSBJ-URTK 6 GN 3026418	PSBJ-URTK 6 VT 3026421	PSBJ-URTK 6 BK 3026447	PSBJ-URTK 6 GY 3026612	PSBJ-URTK 6 BN 3026971

	Cable lugs for use on screw test sockets							
	❻				❼			
	Fork-type cable lug, uninsulated	Fork-type cable lug, uninsulated	Fork-type cable lug, insulated	Fork-type cable lug, insulated	Ring cable lug, uninsulated	Ring cable lug, uninsulated	Ring cable lug, insulated	Ring cable lug, insulated
FTPR ... FTP ...	C-FC 1,5/M3 3240137	C-FC 2,5/M3 3240142	C-FCI 1,5/M3 3240032	C-FCI 2,5/M3 3240037	C-RC 1/M3 DIN 3240070	C-RC 2,5/M3 DIN 3240076	C-RCI 1,5/M3 3240016	C-RCI 2,5/M3 3240021

❽

Screwdriver			
Uninsulated		Insulated	
SF-SL 0,8X4,0-100	1212551	SF-SL 0,8X4,0-100 S-VDE	1212588

❾

Marking [2]	
UC-TM 8, UCT-TM 8	TMT (EX9,5)R

❿

Coding profile		Cover profile for test plugs	
			
PC-UTWE-TRI	3069897	PC-FTP-TRI	3069898
PTWE ..., PTRE ..., UTWE ..., UTRE ...		FTPR ..., FTP ...	

Cover profile for test plugs	
	
AP-FTP METER	3069899
FTPR ..., FTP ...	

Cover for test terminal strip for DIN rail mounting			Cover for test terminal strip for wall mounting[3]	
				
APH-ME 3034374	APT-ME 3034358	AP-ME METER 3034361	APH-UTWE 6-2 3069057	AP RSC-T 3059139
PTWE ..., PTRE ..., UTWE ..., UTRE ...	PTWE ..., PTRE ..., UTWE ..., UTRE ...	PTWE ..., PTRE ... UTWE ..., UTRE ...	UTWE ...	UTWE ...

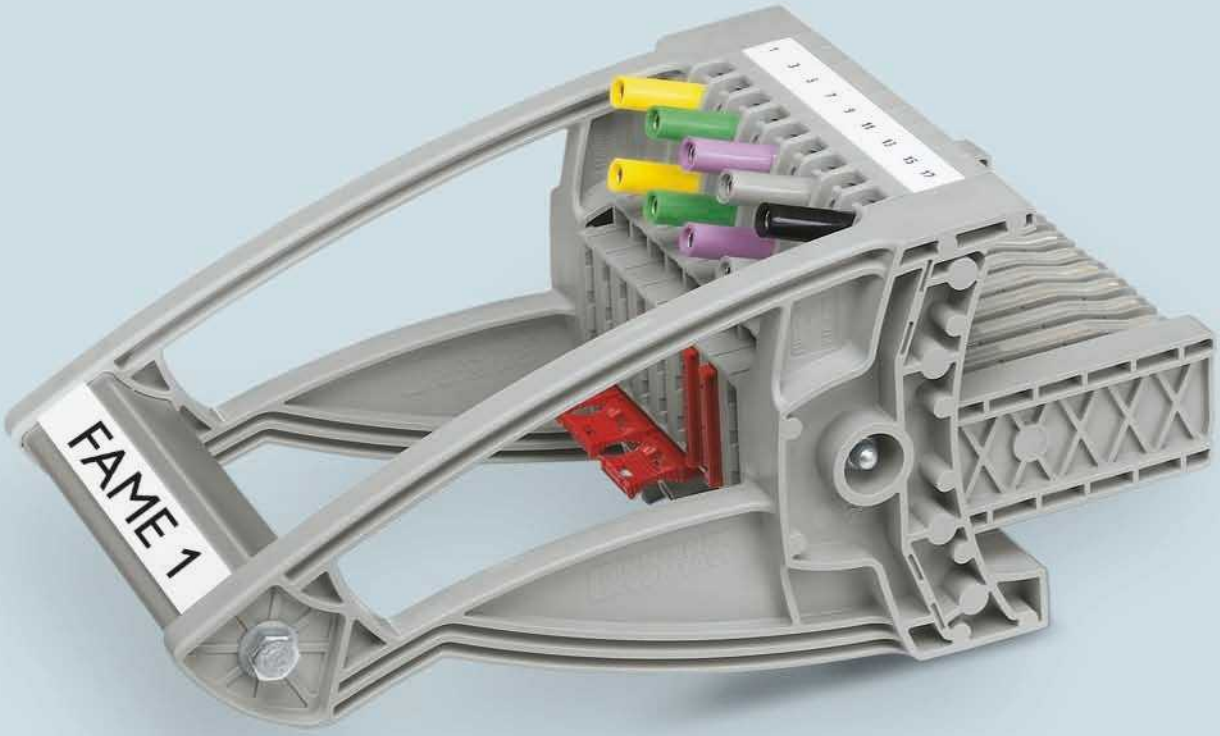
[1]) See figure on page 36.

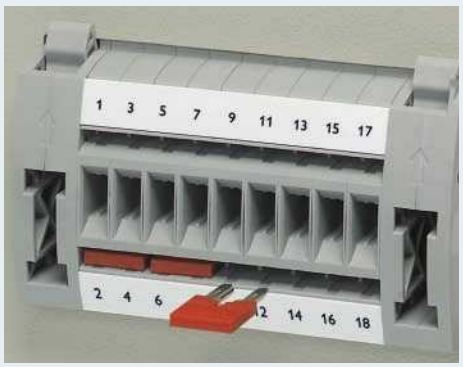
[2]) See Catalog 5 and the product area on our website, phoenixcontact.net/products

[3]) Control cabinet inside

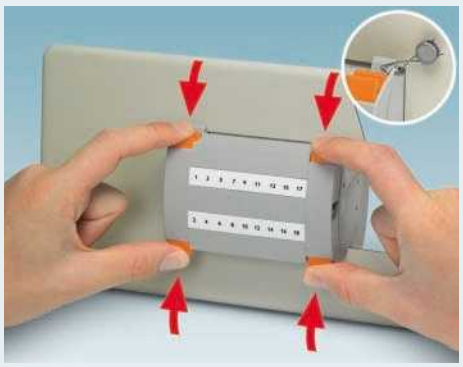
The dimensions of the panel cutouts can be found on page 37.

FAME 1 – plug-in test system with power plug

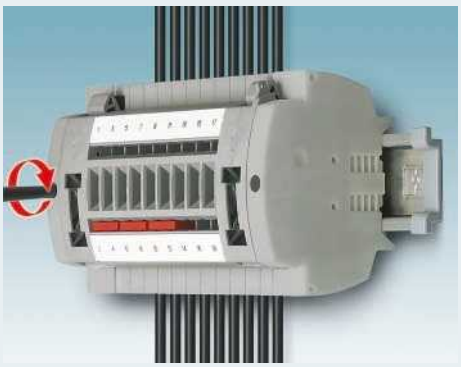




Easy short-circuit jumpering
The test terminal strip offers two function shafts on the control cabinet exterior for short-circuit jumpering. The power plug safely covers the short-circuit jumpers in normal operation.



Safe application
It takes two hands to release the robust latching of the power plug. An optional seal protects against unauthorized actuation.



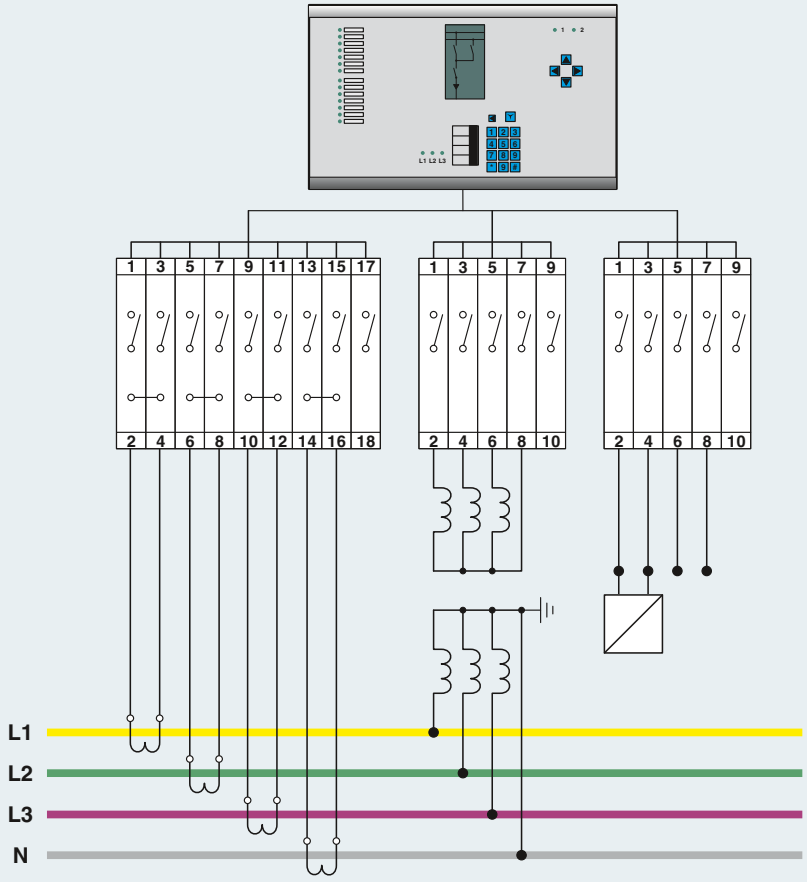
Optional DIN rail mounting
The pre-assembled test terminal strips can be mounted in a space-saving way by easily snapping the E-UTWE 6 adapter onto standard NS 35 DIN rails.

Compact rotary switches
The range of compact rotary switches up to 20 A has been designed for the switch programs available for use in energy technology. High-quality materials result in a long mechanical and electrical service life.

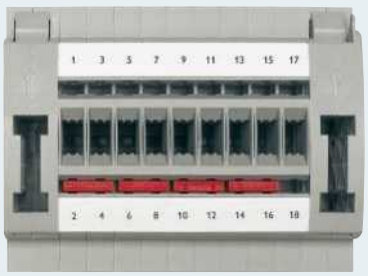
Requirements for East European Standards

FAME 1 also complies with all East European requirements for plug-in test systems with a power plug. The test system is approved according to the GOST standard. Corresponding switching examples can be found on the following pages and in the product area on our website.

Supply system protection – switching example with sequential switching sequence



Test terminal strip for current transformers



Test terminal strip for voltage transformers

Test terminal strip for signal and tripping contacts

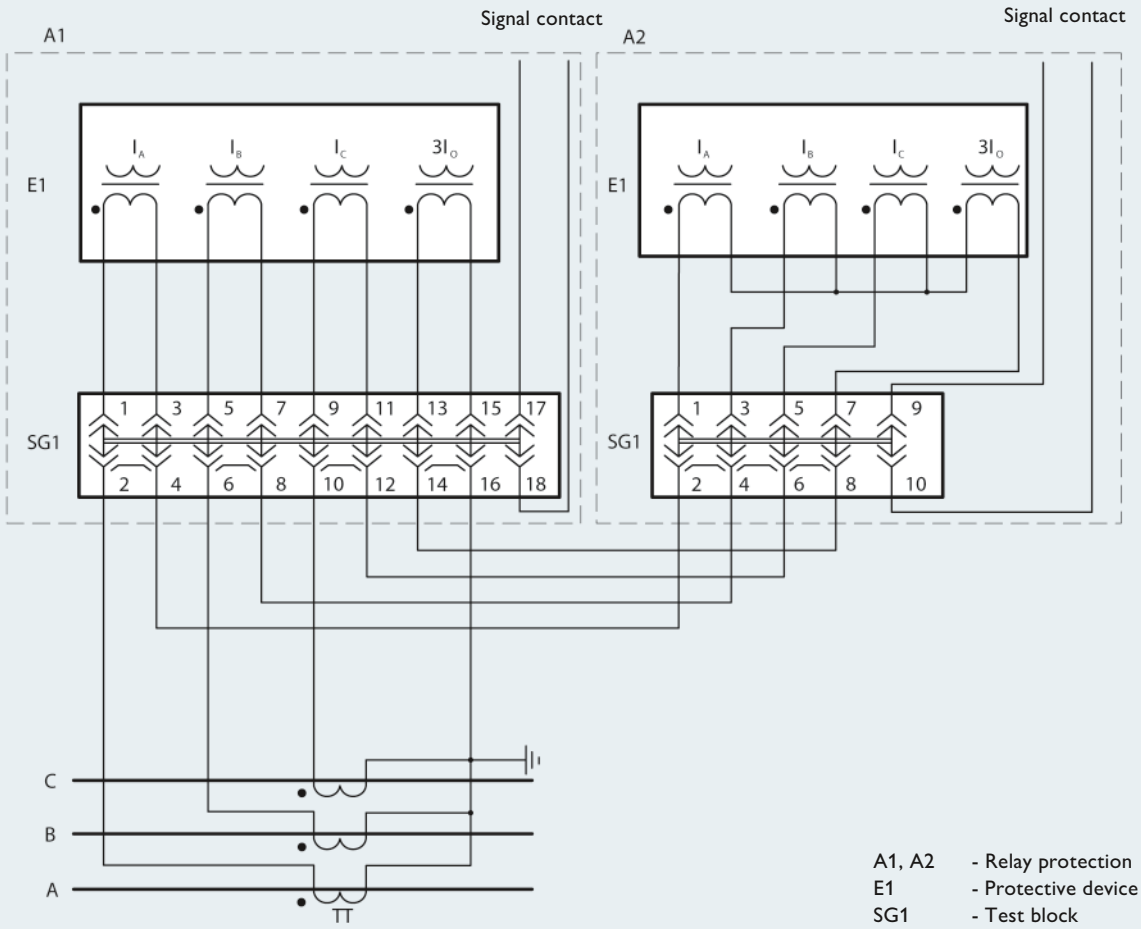
Test terminal strips, power plugs, test plugs

Order No.	Type	Required quantity	Order No.	Type	Required quantity	Order No.	Type	Required quantity
3069064	UTWE 6/8+1	1	3069048	UTWE 6/4+1	1	3069048	UTWE 6/4+1	1
3069297	FWP 8+1	1	3069271	FWP 4+1	1	3069271	FWP 4+1	1
3069242	FTP 8+1	1	3069223	FTP 4+1	1	3069223	FTP 4+1	1

Jumper

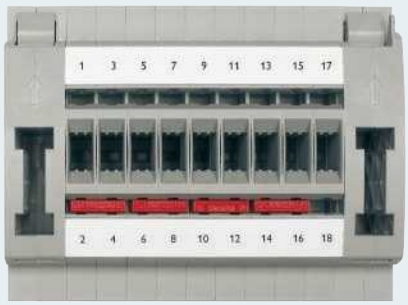
3030284	FBS 2-8	4

Supply system protection – switching example according to East European standards



A1, A2 - Relay protection
E1 - Protective device
SG1 - Test block

Test terminal strip for A1 - SG1



Test terminal strip for A2 - SG1

Test terminal strips, power plugs, test plugs

Order No.	Type	Required quantity
3074104	FAME 6/8+1	1
3074122	FAME-WP 8+1	1
3074112	FAME-TP 8+1	1
Jumper		
3030284	FBS 2-8	4

Test terminal strips, power plugs, test plugs

Order No.	Type	Required quantity
3074100	FAME 6/4+1	1
3074120	FAME-WP 4+1	1
3074110	FAME-TP 4+1	1
Jumper		
3030307	FBS4-8	1

Technical data

Test terminal strip

		5-pos.
Max. operating current/voltage	[A] / [V]	30 / 400
Nominal current/cross section	[A] / [mm²]	24 / 6
Rated surge voltage	[kV]	4
Solid/AWG	[mm²]/—	0.2 - 10 / 24 - 8
Stranded/AWG	[mm²]/—	0.2 - 10 / 24 - 8
Stranded with ferrule/AWG	[mm²]/—	0.25 - 6 / 24 - 10
Two conductors (of the same type) solid/stranded	[mm²] / [mm²]	0.2 - 2.5 / 0.2 - 2.5
Stripping length	[mm]	10
Tightening torque	[Nm]	1.5 - 1.8
Tightening torque for wall fastening	[Nm]	0.8 - 1
Insulation material		PA
Inflammability class according to UL 94		V0

Power plug

		5-pos.
Max. operating current/voltage	[A] / [V]	30 / 400
Nominal current/cross section	[A] / [mm²]	24 /6
Rated surge voltage	[kV]	4

for standard panel cutouts with dummy positions

Test plug

		6-pos.
Max. operating current/voltage	[A] / [V]	24 / 400
Nominal current/cross section	[A] / [mm²]	24 /2.5
Rated surge voltage	[kV]	4
Test socket torque	[Nm]	0.5 - 0.6

Test terminal strip Panel feed-through		Power plug		Test plug[1])		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
UTWE 6/4+1	3069048	FWP 4+1	3069271	FTP 4+1	3069223	FBP 4+1	3069405
							
UTWE 6/4+1 BI	3070008	FWP 4+1	3069271	FTP 4+1	3069223	FBP 4+1	3069405
							
UTWE 6/5+1	3069049	FWP 5+1	3069272	FTP5+1	3069241	FBP 5+1	3069409

[1]) With mounted test socket screws

Technical data

Test terminal strip

Max. operating current/voltage	[A] / [V]	30 / 400
Nominal current/cross section	[A] / [mm²]	24 / 6
Rated surge voltage	[kV]	4
Solid/AWG	[mm²]/—	0.2 - 10 / 24 - 8
Stranded/AWG	[mm²]/—	0.2 - 10 / 24 - 8
Stranded with ferrule/AWG	[mm²]/—	0.25 - 6 / 24 - 10
Two conductors (of the same type) solid/stranded	[mm²] / [mm²]	0.2 - 2.5 / 0.2 - 2.5
Stripping length	[mm]	10
Tightening torque	[Nm]	1.5 - 1.8
Tightening torque for wall fastening	[Nm]	0.8 - 1
Insulation material		PA
Inflammability class according to UL 94		V0

Power plug

Max. operating current/voltage	[A] / [V]	30 / 400
Nominal current/cross section	[A] / [mm²]	24 /6
Rated surge voltage	[kV]	4

Test plug

Max. operating current/voltage	[A] / [V]	24 / 400
Nominal current/cross section	[A] / [mm²]	24 /2.5
Rated surge voltage	[kV]	4
Test socket torque	[Nm]	0.5 - 0.6

7-pos.

7-pos.

for standard panel cutouts with dummy positions

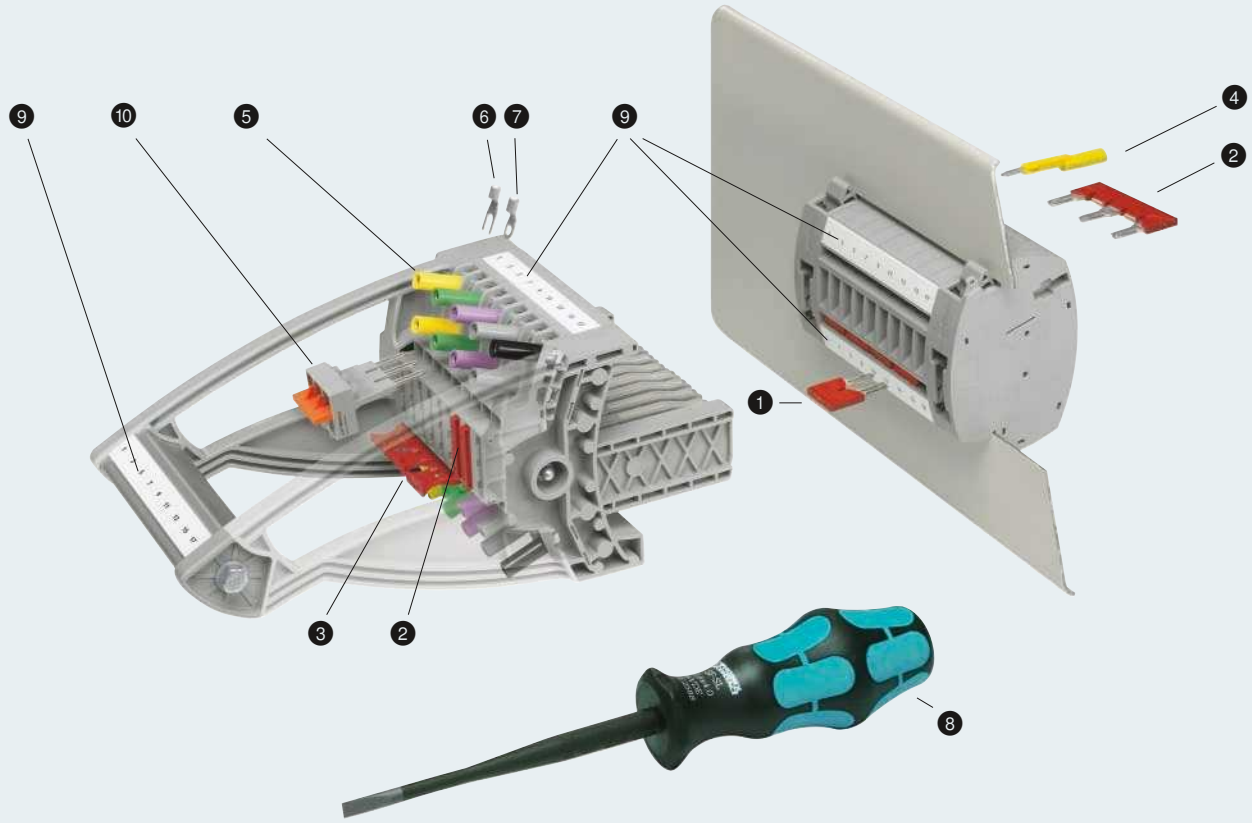
9-pos.

13-pos.

Test terminal strip Panel feed-through		Power plug		Test plug[1])		Dummy plug	
							
Type	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**	**Type**	**Order No.**
UTWE 6/6+1	3069051	FWP 6+1	3069284	FTP 6+1	3069239	FBP 6+1	3069406
							
UTWE 6/6+1 BI	3069996	FWP 6+1	3069284	FTP 6+1	3069239	FBP 6+1	3069406
							
UTWE 6/8+1	3069064	FWP 8+1	3069297	FTP 8+1	3069242	FBP 8+1	3069407
							
UTWE 6/12+1	3069077	FWP 12+1	3069307	FTP 12+1	3069255	FBP 12+1	3069408

[1]) With mounted test socket screws

FAME 1 – accessories



1

	Jumpers					
	2-pos.	3-pos.	4-pos.	5-pos.	6-pos.	10-pos.
UTWE ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 6-8 3032470	FBS 10-8 3030323
FTP ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 6-8 3032470	FBS 10-8 3030323

2

	Jumpers, pre-assembled and printed			
	3-pos. Pos. 1, 3	4-pos. Pos. 1, 4	5-pos. Pos. 1, 3, 5	10-pos. Pos. 1, 4, 7, 10
UTWE ...	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
FTP ...	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402

3

	Jumpers, with extraction tool		
	2-pos.	3-pos.	4-pos.
UTWE ... [1]	FBSRH 2-8 3033802 [1]	FBSRH 3-8 3033803 [1]	FBSRH 4-8 3033804 [1]
FTP ...	FBSRH 2-8 3033802	FBSRH 3-8 3033803	FBSRH 4-8 3033804

10

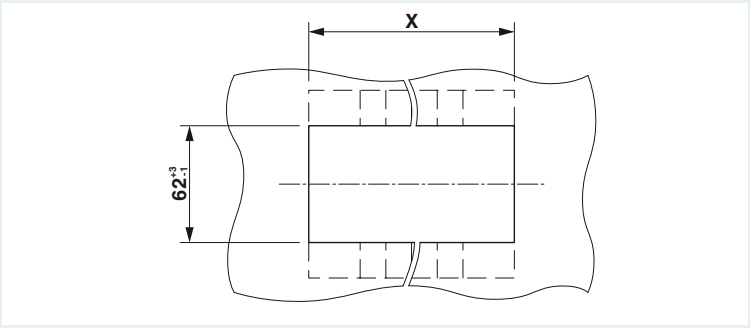
	Switching jumpers		
	2-pos.	3-pos.	4-pos.
UTWE ... [1]	—	—	—
FTP ...	SB-MER 2-8 3000587	SB-MER 3-8 3000588	SB-MER 4-8 3000589

4

	Plug-in test plug adapter, 4 mm diameter								
	Orange	Yellow	Green	Violet	Black	Blue	Red	Gray	Brown
UTWE ... [1] FTP ...	PAI-4-FIX OG 3034455	PAI-4-FIX YE 3032745	PAI-4-FIX GN 3032758	PAI-4-FIX VT 3032761	PAI-4-FIX BK 3032774	PAI-4-FIX BU 3032729	PAI-4-FIX RD 3032732	PAI-4-FIX GY 3032790	PAI-4-FIX BN 3032787

FAME – assembly instructions

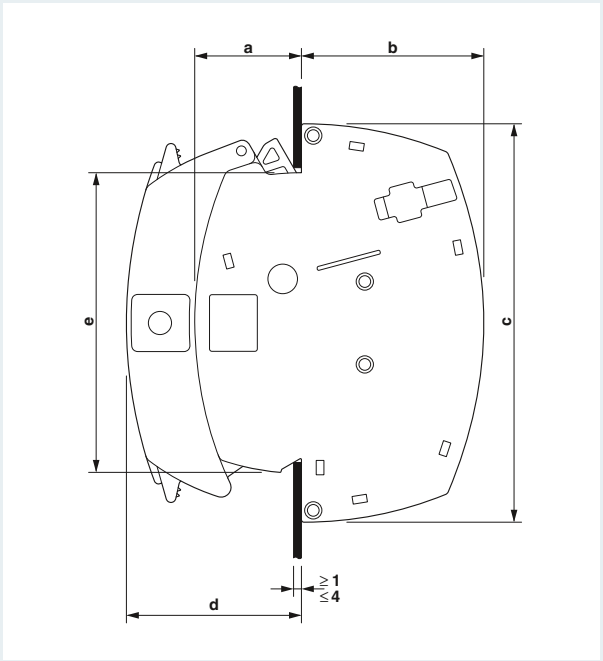
Panel cutout dimensions



Panel cutout	
Cutout dimension	Housing panel thickness [mm]
X [mm] = number of positions x 8.2 + 33.1	≥ 1 ≤ 4

Side view		
	FAME 2	FAME 1
a [mm]	21.5	22
b [mm]	35	37
c [mm]	81	81
d [mm]	35.6	35.7
e [mm]	61	61

Side view dimensions



FAME 1 – accessories

5

	Screwable test sockets, 4 mm diameter								
	TRANSPARENT	Red	Blue	Yellow	Green	Violet	Black	Gray	Brown
FTP ...	PSBJ-URTK 6 FARBLOS 3026450	PSBJ-URTK 6 RD 3026719	PSBJ-URTK 6 BU 3026434	PSBJ-URTK 6 YE 3026405	PSBJ-URTK 6 GN 3026418	PSBJ-URTK 6 VT 3026421	PSBJ-URTK 6 BK 3026447	PSBJ-URTK 6 GY 3026612	PSBJ-URTK 6 BN 3026971

	Cable lugs for use on screw test sockets							
	6				7			
	Fork-type cable lug, uninsulated	Fork-type cable lug, uninsulated	Fork-type cable lug, insulated	Fork-type cable lug, insulated	Ring cable lug, uninsulated	Ring cable lug, uninsulated	Ring cable lug, insulated	Ring cable lug, insulated
FTP ...	C-FC 1,5/M3 3240137	C-FC 2,5/M3 3240142	C-FCI 1,5/M3 3240032	C-FCI 2,5/M3 3240037	C-RC 1/M3 DIN 3240070	C-RC 2,5/M3 DIN 3240076	C-RCI 1,5/M3 3240016	C-RCI 2,5/M3 3240021

8 9

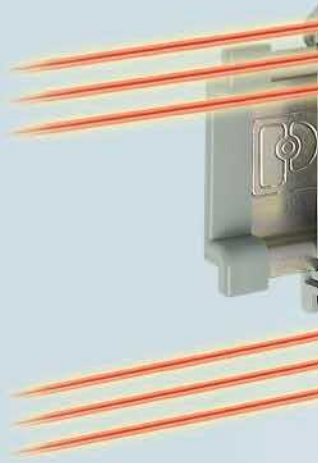
	Screwdriver		Marking [3]	Transducer block cover, internal [4]		Adapter for DIN rail mounting [5]
	Uninsulated	Insulated		Cover profile	Cover profile holder	
UTWE ...	SF-SL 0,8X4,0-100 1212551	SF-SL 0,8X4,0-100 S-VDE 1212588	UC-TM 8	AP RSC-T 3059139	APH-UTWE 6 3069056	E-UTWE 6 3069055
FWP ...	—	—	UC-TM 8	—	—	—
FTP ... [2]	SF-SL 0,8X4,0-100 1212551	SF-SL 0,8X4,0-100 S-VDE 1212588	UC-TM 8	—	—	—
FBP ...	—	—	UC-TM 8	—	—	—

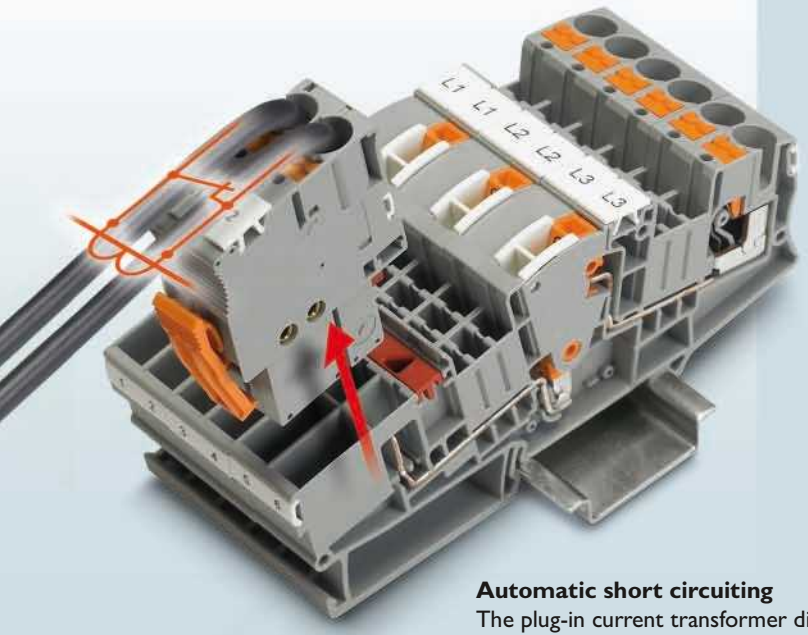
[1] Can only be used inside the control cabinet.
[2] For test sockets
[3] See main catalog 5 and the product area on our website, phoenixcontact.net/products.
[4] See page 27
[5] See page 29

ME test disconnect terminal blocks – flexible for all transformer test wiring

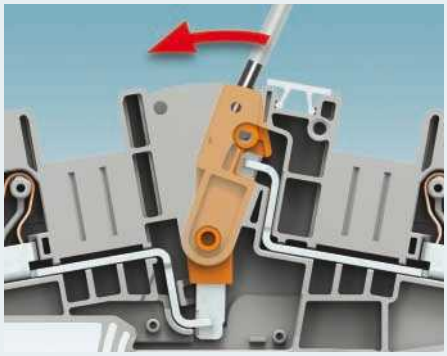
The new test disconnect terminal blocks can be used to build space-saving and modular switchgear. Feed-through and PE terminal blocks of the same shape are also available for the test/disconnect terminal blocks. The new short-circuit plug is particularly user-friendly and safe: Measuring transducers are protected against damage by means of automatic short circuit. CLIP PROJECT planning software provides support in planning your terminal strips quickly and conveniently.

Unlimited flexibility
The triple function shaft on both longitudinal disconnect sides enables the bridge, test, and switching accessories to be placed individually. Non-adjacent jumpers allow the star point to be formed conveniently inside the terminal strip, without the need for additional wire jumpers.

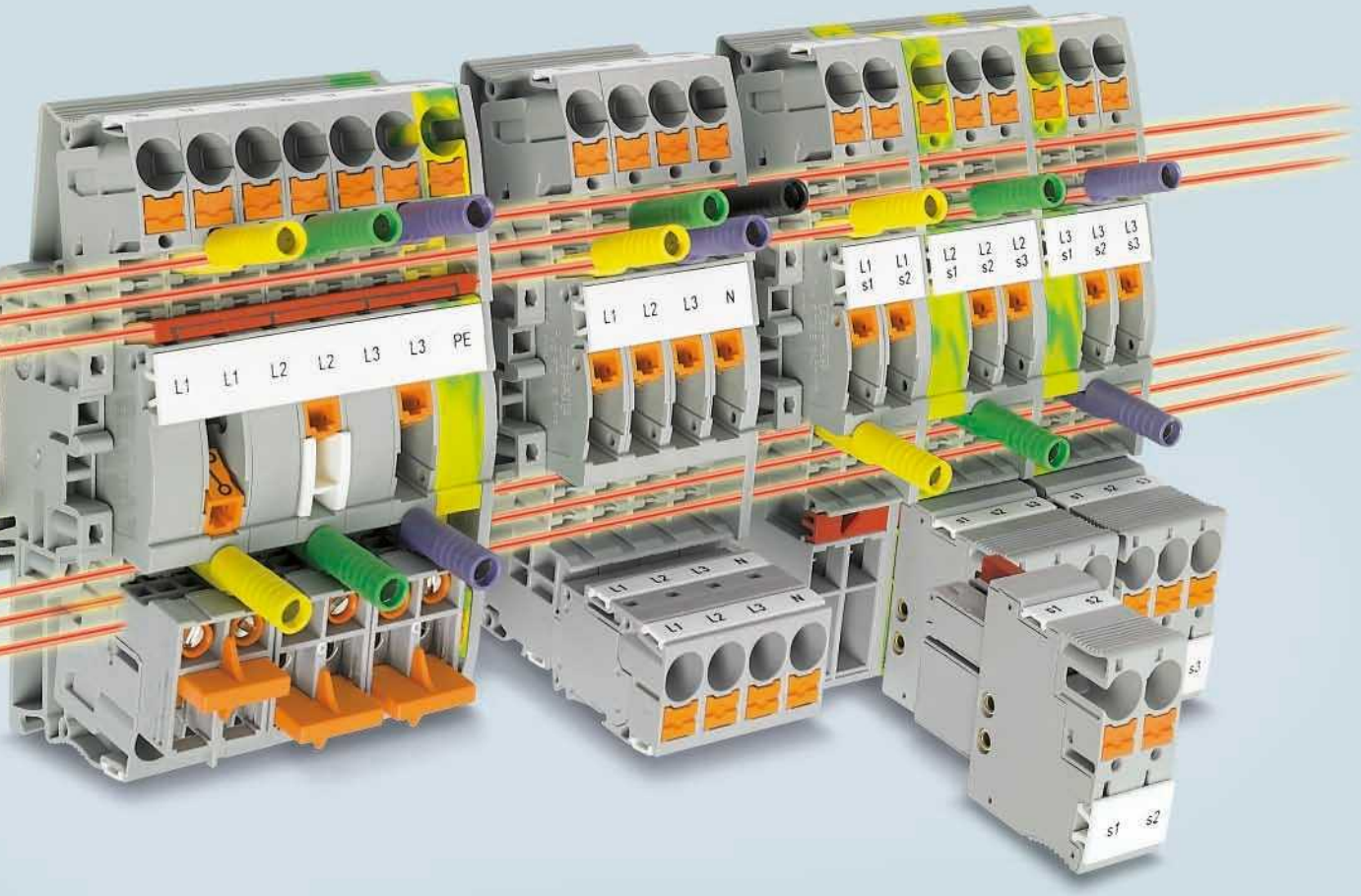




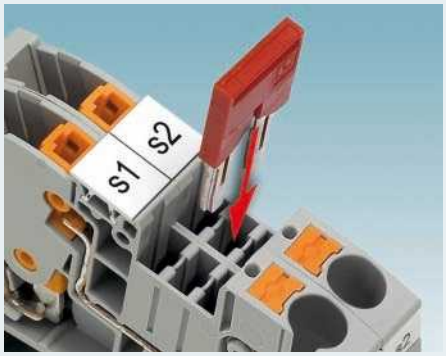
Automatic short circuiting
The plug-in current transformer disconnect terminal blocks also enable the safe plug-in wiring of current transformers. When the transformer plug is removed, an automatically leading short circuit is ensured. Additional coding accessories prevent the plug's polarity from being reversed.



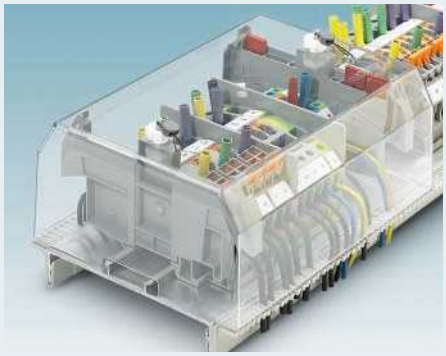
Easy and safe isolation
The section disconnector makes contact and reliably latches with a swiveling movement in the respective switching state. Switching symbols and optional switching locks also ensure a clear overview inside the measuring transducer terminal strip.



Safe short circuiting with switching jumpers
The plug-in current transformer short-circuit jumpers can be used individually, based on the switching task, in the terminal block function shafts.
The switching jumper disconnect element is operated with a screwdriver, which means that the switching operation is only ever activated intentionally.



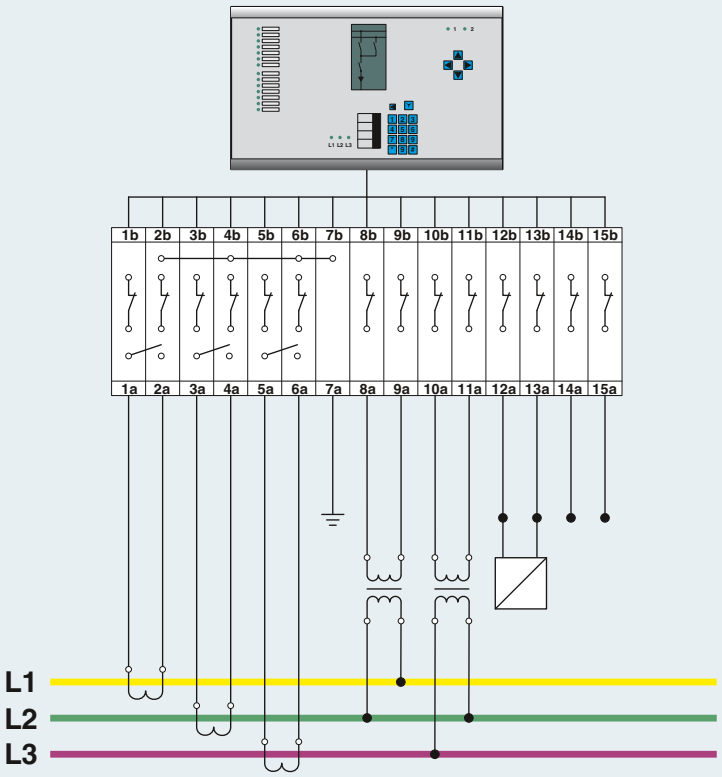
Safe short circuiting with jumpers
The current transformer short circuit can be easily implemented using standard FBL jumpers. FBSRH versions with molded extraction tool are available as 2, 3 and 4 position.



Safely covered
Cover profiles and covering hoods are available as accessories. These can be mounted and sealed on the measuring transducer strip as a protection against external influences and manipulation.

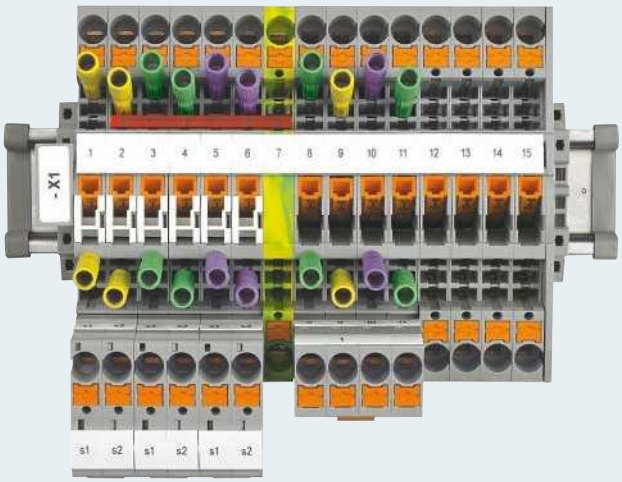
Supply system protection – circuit diagram with star point grounding in the terminal strip

CLIP PROJECT
The project planning software provides you with quick and convenient support for planning and configuring your terminal strips.



Terminal strip with current transformer, voltage transformer, signal and trigger contacts

Design:
Example with push-in connection. PTME 6 test disconnect terminal blocks. The test transformer connections are designed as plug-in versions. Current transformers with automatically leading short-circuit function in the plug.



Terminal blocks

Order No.	Type	Required quantity
3212170	PTME 6	4
3212196	PTMED 6-PE	1
3212300	PTME 6-CT/1P	6
3212306	PTME 6/1P	4

Test adapter

Order No.	Type	Required quantity
3032745	PAI-4-FIX YE	6
3032758	PAI-4-FIX GN	8
3032761	PAI-4-FIX VT	6

Plug and snap-lock

Order No.	Type	Required quantity
3061596	PP-H 6/4	1
3212304	PPCT 6/2	3
3040630	PR/2	4

Cover

3034426	D-DTME 6	1

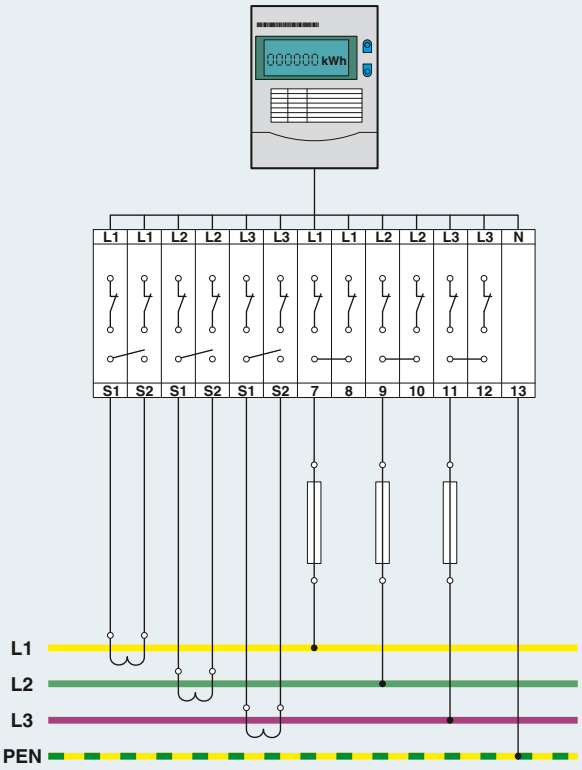
Switching lock

3034439	S-ME 6	6

Jumper

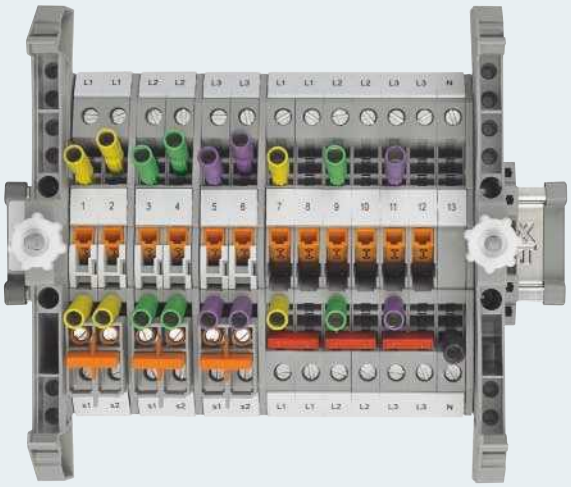
3032470	FBS 6-8	1

Counter connection – circuit example with current transformer and voltage paths



PACT current transformers
The current transformer family with variable mounting for measuring high currents up to 4000 A is available in different accuracy classes.

Terminal strip with current transformer and voltage paths



Design:
Example with screw connection. UTME 6 test disconnect terminal blocks. Switching jumpers are integrated for current transformer short circuiting. The terminal strip can be protected and sealed with cover profile and brackets.

Terminal blocks		
Order No.	Type	Required quantity
3047400	UTME 6	12
3047413	UTMED 6	1

Test adapter		
Order No.	Type	Required quantity
3032745	PAI-4-FIX YE	6
3032758	PAI-4-FIX GN	6
3032761	PAI-4-FIX VT	6
3032774	PAI-4-FIX BK	1

Jumpers and switching jumpers		
Order No.	Type	Required quantity
3030284	FBS 2-8	3
3034468	SB-ME 2-8	3

Cover		
3047426	D-UTME 6	4

Switching lock		
3034439	S-ME 6	6

Adapter profile holder		
3034374	APH-ME	2

The cover profile 3034361 AP-ME METER can be found on page 46.

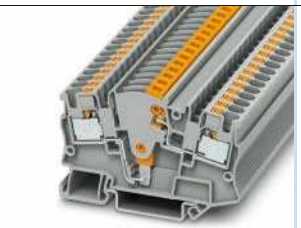
Screw connection technology 4 mm²

Type	Order No.	UTME 4 UTME 4-P/P UTME 4-P/P BU	3047452 3047453 3047454	UTMED 4	3047465	UTMED 4-PE	3047478
Width/length/height	[mm]	6.2 / 66 / 49.5		6.2 / 66 / 49.5		6.2 / 66 / 49.5	
Current/voltage							
IEC // UL	[A] / [V]	28 / 500 // 25 / 600		32 / 500 // 25 / 600		- / - // - / -	
Solid/AWG	[mm²] / –	0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10	
Stranded/AWG	[mm²] / –	0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10	
Stranded with ferrule/AWG	[mm²] / –	0.14 - 4 / 26 - 12		0.14 - 4 / 26 - 12		0.14 - 4 / 26 - 12	
Two cond. (of the same type) solid/stranded	[mm²] / [mm²]	0.14 - 1.5 / 0.14 - 1.5		0.14 - 1.5 / 0.14 - 1.5		0.14 - 1.5 / 0.14 - 1.5	

Screw connection technology 6 mm²

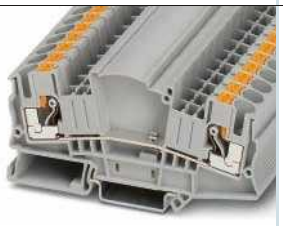
Type	Order No.	UTME 6	3047400	UTMED 6	3047413	UTMED 6-PE	3047442
Width/length/height	[mm]	8.2 / 100.8 / 49.6		8.2 / 100.8 / 49.6		8.2 / 100.8 / 49.6	
Current/voltage							
IEC // UL	[A] / [V]	30 / 500 // 30 / 600		41 / 500 // 30 / 600		- / - // - / -	
Solid/AWG	[mm²] / –	0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8	
Stranded/AWG	[mm²] / –	0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8	
Stranded with ferrule/AWG	[mm²] / –	0.25 - 6 / 24 - 10		0.25 - 6 / 24 - 10		0.25 - 6 / 24 - 10	
Two conductors with a TWIN ferrule	[mm²]	0.2 - 2.5 / 0.2 - 2.5		0.2 - 2.5 / 0.2 - 2.5		0.2 - 2.5 / 0.2 - 2.5	

Push-in connection technology 4 mm²



Type	Order No.	PTME 4	3212139	PTMED 4	3212141	PTMED 4-PE	3212154
Width/length/height	[mm]	6.2 / 70.5 / 49.5		6.2 / 70.5 / 49.5		6.2 / 70.5 / 49.5	
Current/voltage							
IEC // UL	[A] / [V]	24 / 500 // 26 / 300		32 / 500 // 26 / 300		- / - // - / -	
Solid/AWG	[mm²] / –	0.2 - 6 / 24 - 10		0.2 - 6 / 24 - 10		0.2 - 6 / 24 - 10	
Stranded/AWG	[mm²] / –	0.2 - 4 / 24 - 12		0.2 - 4 / 24 - 12		0.2 - 4 / 24 - 12	
Stranded with ferrule/AWG	[mm²] / –	0.25 - 4 / 24 - 12		0.25 - 4 / 24 - 12		0.25 - 4 / 24 - 12	
Can be plugged in directly solid	[mm²]	0.5 - 6		0.5 - 6		0.5 - 6	

Push-in connection technology 6 mm²

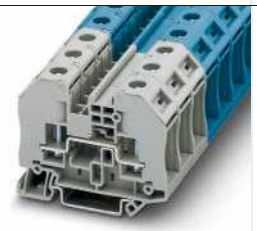


Type	Order No.	PTME 6 PTME 6 HV[2]) PTME 6 HV BU[2])	3212170 3035696 3035695	PTMED 6	3212183	PTMED 6-PE	3212196
Width/length/height	[mm]	8.2 / 100.8 / 49.6		8.2 / 100.8 / 49.6		8.2 / 100.8 / 49.6	
Current/voltage							
IEC // UL	[A] / [V]	30 / 500 // 30 / 600		41 / 1000 // 30 / 600		- / - // - / -	
Solid/AWG	[mm²] / –	0.5 - 10 / 20 - 8		0.5 - 10 / 20 - 8		0.5 - 10 / 20 - 8	
Stranded/AWG	[mm²] / –	0.5 - 6 / 20 - 10		0.5 - 6 / 20 - 10		0.5 - 6 / 20 - 10	
Stranded with ferrule/AWG	[mm²] / –	0.5 - 6 / 20 - 10		0.5 - 6 / 20 - 10		0.5 - 6 / 20 - 10	
Can be plugged in directly solid	[mm²]	1.0 - 10		1.0 - 10		1.0 - 10	

Spring cage connection technology

Type	Order No.	STME 6 STME 6 HV[1]) STME 6 HV BU[1])	3035700 3035693 3035694	STMED 6	3035713	STMED 6-PE	3035726
Width/length/height	**[mm]**	8.2 / 100.8 / 49.6		8.2 / 99.8 / 49.6		8.2 / 99.8 / 49.6	
Current/voltage							
IEC // UL	**[A] / [V]**	30 / 500 // 30 / 600		41 / 500 // 30 / 600		- / - // - / -	
Solid/AWG	**[mm²] / –**	0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8		0.2 - 10 / 24 - 8	
Stranded/AWG	**[mm²] / –**	0.2 - 6 / 24 - 10		0.2 - 6 / 24 - 10		0.2 - 6 / 24 - 10	
Stranded with ferrule/AWG	**[mm²] / –**	0.25 - 6 / 24 - 10		0.25 - 6 / 24 - 10		0.25 - 6 / 24 - 10	
Two conductors with a TWIN ferrule	**[mm²]**	0.5 - 1.5		0.5 - 1.5		0.5 - 1.5	

Bolt connection technology 6 mm²



Type	Order No.	RT 5-T	3049039	RT 5 RT 5 BU	3049026 3049123	RT 5-PE	3049424
Width/length/height	**[mm]**	16.3 / 91.4 / 51		16.3 / 66.0 / 51		16.2 / 65.0 / 51	
Current/voltage							
IEC // UL	**[A] / [V]**	41 / 1000 [2]) // 30 / 600		41 / 1000 // 30 / 600		- / - // - / -	
Stranded/AWG	**[mm²] / –**	0.1 - 6 / 26 - 10		0.1 - 6 / 26 - 10		0.1 - 6 / 26 - 10	
Ring cable lug DIN 46234 // DIN 46237							
Connection bolt / hole diameter / width	**[mm]**	5 / 5.3 / 10 // 5 / 5.3 / 10		5 / 5.3 / 10 // 5 / 5.3 / 10		5 / 5.3 / 10 // 5 / 5.3 / 10	

[1]) IEC 1000 V
[2]) Rated voltage for open disconnect point 500 V

UT-COMBI screw connection terminal blocks 4 mm²
plug-in connection

Technical data		UTME 4/1P	3057416	Horizontal conductor connection	Vertical conductor connection
Width/length/height	[mm]	6.2 / 71.7 / 49.5		6.2 / 22 / 32.2 (plugged in)	6.2 / 22 / 32.2 (plugged in)
Current/voltage		28 / 500			
IEC // UL	[A] / [V]	28 / 500 // 25 / 600		32 / 800 // 30 / 600	32 / 800 // 30 / 600
Solid/AWG	[mm²] / –	0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10	0.14 - 6 / 26 - 10
Stranded/AWG	[mm²] / –	0.14 - 4 / 26 - 10		0.14 - 6 / 26 - 10	0.14 - 6 / 26 - 10
Stranded with ferrule/AWG	[mm²] / –	0.14 - 4 / 26 - 10		0.14 - 4 / 26 - 10	0.14 - 4 / 26 - 10
Two cond. (of the same type) solid/stranded	[mm²] / [mm²]	0.14 - 1.5 / 0.14 - 1.5		0.14 - 1.5 / 0.14 - 1.5	0.14 - 1.5 / 0.14 - 1.5

Positions	color	Type	Order No.	Type	Order No.
1-pos.	gray	UPBV 4/1[1])	3045800	UP 4/1[1])	3060115
2-pos.	gray	UPBV 4/2	3045813	UP 4/2	3060128
3-pos.	gray	UPBV 4/3	3045826	UP 4/3	3060131
4-pos.	gray	UPBV 4/4	3045839	UP 4/4	3060144
5-pos.	gray	UPBV 4/5	3045842	UP 4/5	3060157
6-pos.	gray	UPBV 4/6	3045855	UP 4/6	3060160
7-pos.	gray	UPBV 4/7	3045868	UP 4/7	3060173
8-pos.	gray	UPBV 4/8	3045871	UP 4/8	3060186
9-pos.	gray	UPBV 4/9	3045884	UP 4/9	3060199
10-pos.	gray	UPBV 4/10	3045897	UP 4/10	3060209
11-pos.	gray	UPBV 4/11	3045907	UP 4/11	3060212
12-pos.	gray	UPBV 4/12	3045910	UP 4/12	3060225
13-pos.	gray	UPBV 4/13	3045923	UP 4/13	3060238
14-pos.	gray	UPBV 4/14	3045936	UP 4/14	3060241
15-pos.	gray	UPBV 4/15	3045949	UP 4/15	3060254
1-pos.	blue	UPBV 4/1 BU	3045266	UP 4/1 BU	3045282
1-pos.	green-yellow	UPBV 4/1 GNYE	3045279	UP 4/1 GNYE	3045295

UT-COMBI screw connection terminal blocks 4 mm²
plug-in connection, with automatic short-circuit function

Type	Order No.	UTME 4-CT/1P	3057432	2-pos. and 3-pos. plugs	
				UPCT 4/2	3057461
				UPCT 4/3	3057458
Width/length/height	[mm]	6.2 / 86.5 / 49.5		12.4 / 38.5 / 48.5	
Current/voltage					
IEC // UL	[A] / [V]	28 / 500 // 600 / 25		20 / 320 // 300 / 25	
Solid/AWG	[mm²] / –	0.14 - 6 / 26 - 10		0.14 - 6 / 26 - 10	
Stranded/AWG	[mm²] / –	0.14 - 4/ 26 - 10		0.14 - 6 / 26 - 10	
Stranded with ferrule/AWG	[mm²] / –	0.14 - 4 / 26 - 10		0.14 - 4 / 26 - 12	
Two cond. (of the same type) solid/stranded	[mm²] / [mm²]	0.14 - 1.5 / 0.14 - 1.5		0.14 - 1.5 / 0.14 - 1.5	

Accessories for plugs

	Coding set		Strain relief		Latching and strain relief		Locking mechanism	
UPBV ...	PC	3040588	PZ/2	3040627	PRZ	3040614	PR/2	3040630
UP ...	PC	3040588	UPZ/2	3045554	UPRZ	3045570	UPR/2	3045567
UPCT 4/2	PC-CT/2	3032855	PZ/2	3040627	PRZ	3040614	PR/2	3040630
UPCT 4/3	PC-CT/3	3032868	PZ/2	3040627	PRZ	3040614	PR/2	3040630

PT-COMBI push-in connection terminal blocks 6 mm²

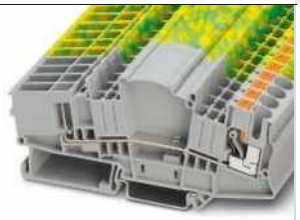
plug-in connection

Type	Order No.	PTME 6/1P	3212306	Vertical conductor connection
Width/length/height	[mm]	8.2 / 99.4 / 49.6		8.2 / 21 / 49.3
Current/voltage				
IEC // UL	[A] / [V]	30 / 500 // 600 / 30		41 / 1000 // 600 / 40
Solid/AWG	[mm²] / –	0.5 - 10 / 20 - 8		0.5 - 10 / 20 - 8
Stranded/AWG	[mm²] / –	0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 8
Stranded with ferrule/AWG	[mm²] / –	0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 8
Can be plugged in directly solid	[mm²]	1.0 - 10		1.0 - 10

Positions	color	Type	Order No.
1-pos.	gray	PP-H 6/1[1])	3061541
2-pos.	gray	PP-H 6/2	3061570
3-pos.	gray	PP-H 6/3	3061583
4-pos.	gray	PP-H 6/4	3061596
5-pos.	gray	PP-H 6/5	3061606
6-pos.	gray	PP-H 6/6	3061619
7-pos.	gray	PP-H 6/7	3061622
8-pos.	gray	PP-H 6/8	3061635
9-pos.	gray	PP-H 6/9	3061648
10-pos.	gray	PP-H 6/10	3061651
1-pos.	blue	PP-H 6/1 BU	3061554
1-pos.	green-yellow	PP-H 6/1 GNYE	3061567

PT-COMBI push-in connection terminal blocks 6 mm²

plug-in connection, with automatic short-circuit function



Type	Order No.	PTME 6-CT/1P	3212300	PTMED 6-CT/1P PTMED 6-CT/1P-PE	3212301 3212302	2-pos. and 3-pos. plugs PPCT 6/2 PPCT 6/3	 3212304 3212305
Width/length/height	[mm]	8.2 / 114.9 / 49.6		8.2 / 114.9 / 49.6		16.4 / 38.5 / 48.5	
Current/voltage							
IEC // UL	[A] / [V]	30 / 500 // 600 / 30		30 / 500 // 600 / 30		20 / 320 // 600 / 30	
Solid/AWG	[mm²] / –	0.5 - 10 / 20 - 8		0.5 - 10 / 20 - 8		0.5 - 10 / 20 - 8	
Stranded/AWG	[mm²] / –	0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 10	
Stranded with ferrule/AWG	[mm²] / –	0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 8		0.5 - 6 / 20 - 10	
Can be plugged in directly solid	[mm²]	1.0 - 10		1.0 - 10		1.0 - 10	

Accessories for plugs

	Coding set		Strain relief		Latching and strain relief		Locking mechanism	
PP-H 6 ...	PC	3040588	PZ/2	3040627	PRZ	3040614	PR/2	3040630
PPCT 6/2	PC-CT 6/2	3212308	PZ/2	3040627	PRZ	3040614	PR/2	3040630
PPCT 6/3	PC-CT 6/3	3212309	PZ/2	3040627	PRZ	3040614	PR/2	3040630

[1]) Derating curve on request

Additional accessories, such as cable housing, can be found at phoenixcontact.net/products.

ME test disconnect terminal blocks – accessories

	Mounting material	Type	Order No.
6	**35 x 7.5 mm DIN rail** galvanized and thick layer passivated unperforated perforated	 **NS 35/7,5 UNPERF 2000 MM** **NS 35/7,5 PERF 2000 MM**	 **0801681** **0801733**
7	**Terminal strip marker carriers,** adjustable height, for CLIPFIX 35-5, can be marked with label	**KLM 3-L**	**0814788**
8	**Separating disk,** with storage option for FBS jumpers ...-8	**CARRIER 35-8**	**3034387**
9	**Screwdriver**	**SZF 2-0.8X4.0**	**1204520**
10	**Quick mounting end bracket,** with park option for FBS...-6 Width/length/height 5 mm / 48.5 mm / 35 mm	**CLIPFIX 35-5**	**3022276**
11	**DIN rail end cap,** for DIN rail NS 35/7,5 for DIN rail NS 35/15	 **NS 35/7,5 CAP** **NS 35/15 CAP**	 **1206560** **1206573**
12	**Cover profile**	**AP-ME METER**	**3034361**
	Covering hood[1])	**AH-ME**	**3240265**
13	**End brackets,** for AP-ME cover profile, sealable, with storage option for jumpers	**APH-ME**	**3034374**
14	**Holder,** for AP-ME cover profile	**APT-ME**	**3034358**
15	**Switching lock,** plug-in, for PTME 4, UTME 4, UTME 4/1P and UTME 4-CT/1P for UTME 6, STME 6, PTME 6 for RT 5-T	 **S-ME 4** **S-ME 6** **S-RT 5-T**	 **3035758** **3034439** **3049330**

[1]) The figure can be found on page 39 and in the product area on the website.

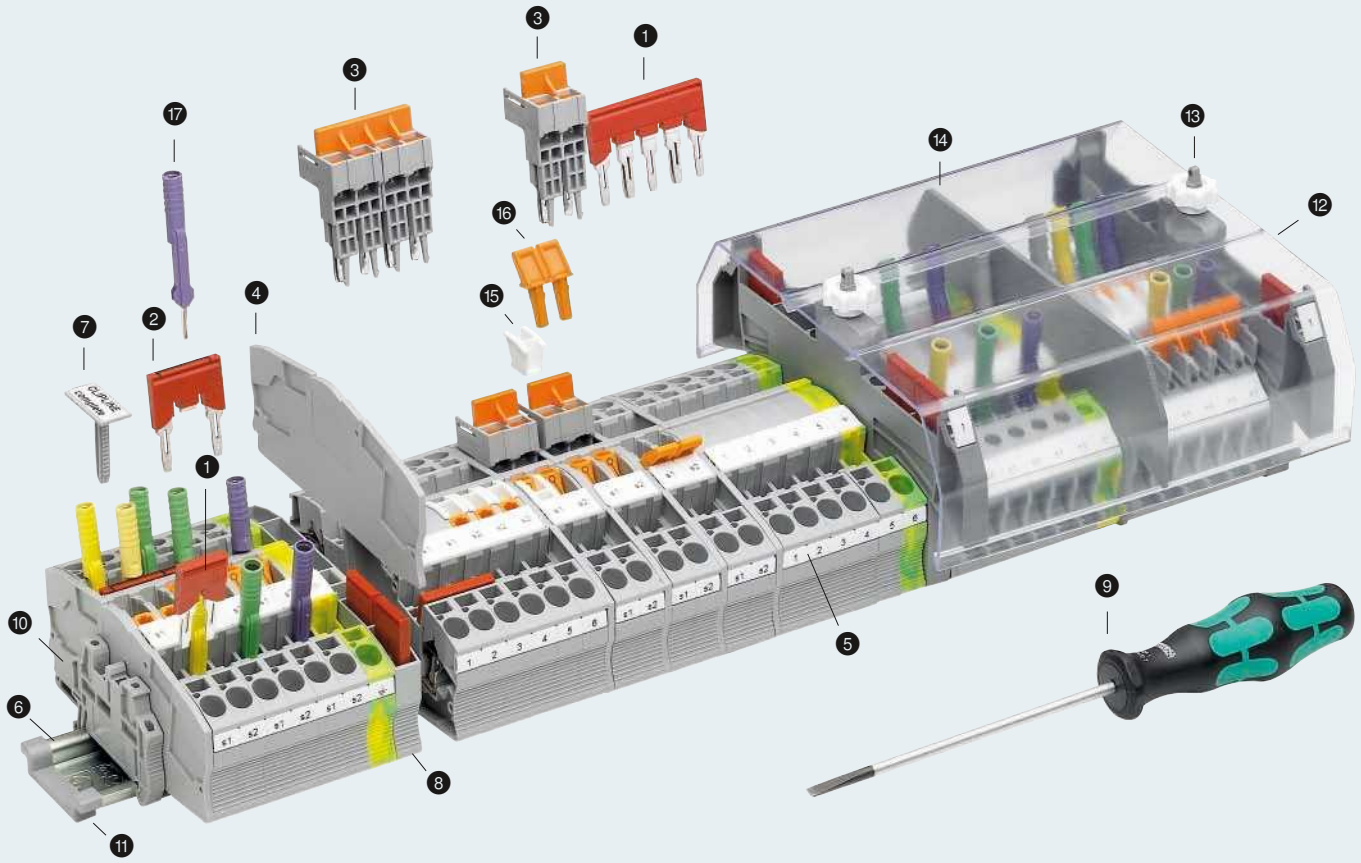
	Mounting material		Type	Order No.
16	**Connection bridge,** for connecting of test disconnect terminal blocks, for PTME 4, UTME 4, UTME 4/1P, UTME 4-CT/1P 2-pos. 3-pos. for UTME 6, STME 6, PTME 6 2-pos. 3-pos.		 **C-ME 4/2** **C-ME 4/3** **C-ME 6/1** **C-ME 6/2** **C-ME 6/3**	 **3035759** **3035760** **3034441** **3034442** **3034390**
17	**Test adapter,** for UTME 6, STME 6, PTME 6, RT 5	Orange Yellow Green Violet Black Blue Red Gray Brown	**PAI-4-FIX OG** **PAI-4-FIX YE** **PAI-4-FIX GN** **PAI-4-FIX VT** **PAI-4-FIX BK** **PAI-4-FIX BU** **PAI-4-FIX RD** **PAI-4-FIX GY** **PAI-4-FIX BN**	**3034455** **3032745** **3032758** **3032761** **3032774** **3032729** **3032732** **3032790** **3032787**
17	**Test adapter,** for PTME(D) 4, UTME(D) 4...	Orange Yellow Green Violet Black Blue Red Gray Brown	**PAI-4-FIX-5/6 OG** **PAI-4-FIX-5/6 YE** **PAI-4-FIX-5/6 GN** **PAI-4-FIX-5/6 VT** **PAI-4-FIX-5/6 BK** **PAI-4-FIX-5/6 BU** **PAI-4-FIX-5/6 RD** **PAI-4-FIX-5/6 GY** **PAI-4-FIX-5/6 BN**	**3035974** **3035977** **3035978** **3035979** **3035980** **3035975** **3035976** **3035982** **3035981**
	Jumpers with molded extraction tool[2]), for UTME 6, STME 6, PTME 6, RT 5		**2-pos. FBSRH 2-8** **3-pos. FBSRH 3-8** **4-pos. FBSRH 4-8**	**3033802** **3033803** **3033804**

[2]) The figure can be found on page 36.

Terminal block	❶ Jumpers						❷ Pre-assembled jumpers				
	2-pos.	3-pos.	4-pos.	5-pos.	10-pos.	I_{max}	3-pos. Pos. 1 and 3	4-pos. Pos. 1 and 4	5-pos. Pos. 1 and 5	5-pos. Pos. 1, 3 and 5	10-pos. Pos. 1, 4, 7 and 10
PTME ... 4 ...	FBS 2-6 3030336	FBS 3-6 3030242	FBS 4-6 3030255	FBS 5-6 3030349	FBS 10-6 3030271	32 A	–	–	–	–	–
PTME ... 6 ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	41 A	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
PTME ... 6/1P	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	41 A	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
PTME 6-CT/1P-PE	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	–	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
UTME ... 4 ...	FBS 2-6 3030336	FBS 3-6 3030242	FBS 4-6 3030255	FBS 5-6 3030349	FBS 10-6 3030271	32 A	–	–	–	–	–
UTME 4/1P	FBS 2-6 3030336	FBS 3-6 3030242	FBS 4-6 3030255	FBS 5-6 3030349	FBS 10-6 3030271	32 A	–	–	–	–	–
UTME 4-CT/1P	FBS 2-6 3030336	FBS 3-6 3030242	FBS 4-6 3030255	FBS 5-6 3030349	FBS 10-6 3030271	32 A	–	–	–	–	–
UTME ... 6 ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	41 A	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
STME ... 6 ...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	41 A	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402
RT ... 5...	FBS 2-8 3030284	FBS 3-8 3030297	FBS 4-8 3030307	FBS 5-8 3030310	FBS 10-8 3030323	41 A	FBS 1/3-8 3032363	FBS 1/4-8 3032376	FBS 1/5-8 3032381	FBS 1/3/5-8 3032389	FBS 1/4/7/10-8 3032402

Additional jumpers and numbers of positions can be found in main catalog 3 or the product area on our website at phoenixcontact.net/products.

ME test disconnect terminal blocks – accessories



3					4	5	
	Switching jumper[3])				Cover	Marking	
I_{max}	2-pos.	3-pos.	4-pos.	I_{max}		Center groove	Center and lateral groove
–	SB-ME 2-6 3035755	SB-ME 3-6 3035756	SB-ME 4-6 3035757	25 A	D-PTME 4 3212167	UC-TM 6 0818085	UC-TMF 6 0818140
41 A	SB-ME 2-8 3034468	SB-ME 3-8 3032800	SB-ME 4-8 3034484	30 A	D-DTME 6 3034426	UC-TM 8 0818072	UC-TMF 8 0818137
41 A	SB-ME 2-8 3034468	SB-ME 3-8 3032800	SB-ME 4-8 3034484	30 A	D-PTME 6/1P 3212307	UC-TM 8 0818072	UC-TMF 8 0818137
41 A	–	–	–	–	D-PTME 6-CT/1P 3212303	UC-TM 8 0818072	UC-TMF 8 0818137
–	SB-ME 2-6 3035755	SB-ME 3-6 3035756	SB-ME 4-6 3035757	25 A	D-UTME 4 3047491	UC-TM 6 0818085	UC-TMF 6 0818140
–	SB-ME 2-6 3035755	SB-ME 3-6 3035756	SB-ME 4-6 3035757	30 A	D-UTME 4/1P 3057429	UC-TM 6 0818085	UC-TMF 6 0818140
–	–	–	–	–	D-UTME 4-CT/1P 3057445	UC-TM 6 0818085	UC-TMF 6 0818140
41 A	SB-ME 2-8 3034468	SB-ME 3-8 3032800	SB-ME 4-8 3034484	30 A	D-UTME 6 3047426	UC-TM 8 0818072	UC-TMF 8 0818137
41 A	SB-ME 2-8 3034468	SB-ME 3-8 3032800	SB-ME 4-8 3034484	30 A	D-DTME 6 3034426	UC-TM 8 0818072	UC-TMF 8 0818137
41 A	–	–	–	–	D-RT 5-T 3049291	UC-TM 16 0819217	UC-TM 12 0819194

[3]) Additional switching jumpers can be found in main catalog 3 or the product area on our website at phoenixcontact.net/products.

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Printed in Germany

IC06-14.000.L3
MNR 52005521/2014-03-01/00

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