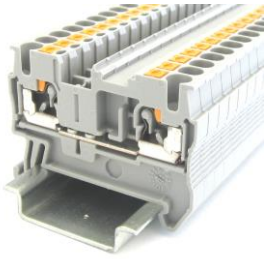
Feed-Through Terminal Blocks PT

Article description	**PT 2,5** *
Article no.	3209510 *
EC-TYPE EXAMINATION CERTIFICATE **IECEx-CERTIFICATE**	**PTB 09 ATEX 1111 U*** **IECEx PTB 10.0021 U***
Marking	0344 Ex 2 II GD Ex eb IIC PTB 09 ATEX 1111 U IECEx PTB 10.0021 U
Assembly on mounting rails	NS 35 acc. to EN 60715-TH 35
Stripping length	10 mm
Assembly instructions	See page 2
Operating temperature range	-60 °C … +110 °C



Technical data according to IEC/EN 60079-7 (increased safety „e“)

Rated insulation voltage Rated voltage	500 V 550 V	
Nominal current	19 A ΔT 40 K	
Max. rated current	23 A ΔT 40 K	
Temperature rise	33 K (20,5 A / 2,5 mm²)	
Contact resistance	1,1 mΩ	

Connection capacity

Rated cross-section	2,5 mm²	AWG 14
Max. conductor cross-section	4 mm²	AWG 12
Connectable conductor cross-section	0,14 - 4 mm² rigid 0,14 - 2,5 mm² flexible	AWG 26 - 12 rigid AWG 26 - 14 flexible

Data of insulation material

Description	PA 6.6
Creep resistance acc. to IEC 60112 / material group	CTI 600 / I

Accessories	**Description**	**Article no.**	
Cover	D-ST 2,5	3030417	
Partition plate	ATP-ST 4	3030721	
Plug-in brigde	FBS 2-5 FBS 3-5 FBS 4-5 FBS 5-5 FBS 10-5 FBS 20-5 FBS 50-5	3030161 3030174 3030187 3030190 3030213 3030226 3038930	Max. 19 A / 2,5 mm² ΔT 40 K

* valid for colour variants

Important assembly instructions – increased safety „e“

The Terminal Blocks are suitable for use in enclosures in Atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC/EN 60079-0 and IEC/EN 60079-7. For combustible dust these enclosures must satisfy the relevant requirements of IEC/EN 60079-31.

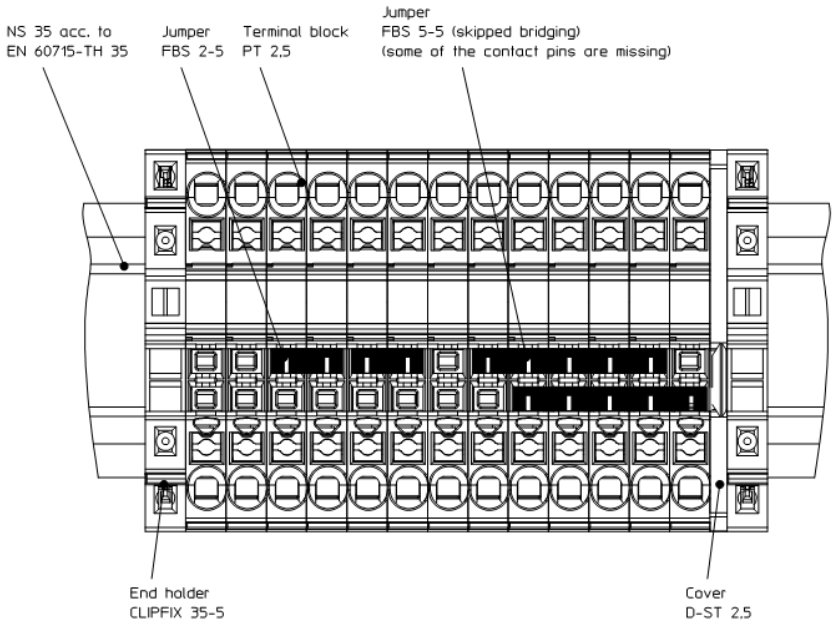
When assembling with other certified series and sizes of terminal blocks and using belonging accessories, the required creepage distances and clearances have to be observed.

When using the jumpers to achieve a skipped bridging the rated voltage is reduced to 352 V. When using cut-to-length plug-in bridges data and examples of use have to be observed as stated in the enclosure.

If conductors with smaller cross section as the rated cross section are used, the belonging lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

The Terminal Blocks may be used, based on the self-heating when used at the nominal current and at ambient temperatures of -50 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6. When the Terminal Blocks are used in electrical apparatus of temperature classes T5 up to T1, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

The Terminal Blocks and their appropriate accessories have to be assembled as specified below.



Operational instructions – Intrinsic safety “i“

IEC/EN 60079-14 Clause 12 describes modular terminal blocks as simple apparatus when used in intrinsically-safe circuits. Testing by a notified body and marking is not required. If terminal blocks be identifiable as part of an intrinsically circuit are marked by a colour, the colour used shall be light blue.

Testing for compliance to intrinsically safe requirements including clearance, creepage, and solid insulation distances specified in IEC/EN 60079-0 and IEC/EN 60079-11 have been performed for circuits up to **60 V**.

Compliance with distance requirements of IEC/EN 60079-14 Clause 12.2.3 for the connection of separated intrinsically-safe circuit accessories is met. A minimum distance of 50 mm to separate clamping units of intrinsically-safe and non intrinsically-safe circuits is required through the use of a separating plate or similar device.

Attestation of Conformity

The above-mentioned product conforms with the most important requirements of directive 2014/34/EU (ATEX directive) and its amending directives. The following pertinent standards were consulted for evaluating the conformity:

- IEC 60079-0/EN 60079-0
- IEC 60079-7/EN 60079-7

For the complete list of relevant standards, including the issue status, see certificate of conformity. This is available for download at www.phoenixcontact.com in the e-shop under the category manufacturer's declaration.

Conformance with the provisions of the ATEX directive was certified by the following notified body:

	PHYSIKALISCH-TECHNISCHE BUNDESANSTALT	
Address:	Bundesallee 100, 38116 Braunschweig, Germany	[Kenn-Nr.: 0102]
Certificate: (No., Date)	PTB 09 ATEX 1111 U, 2013-07-10	

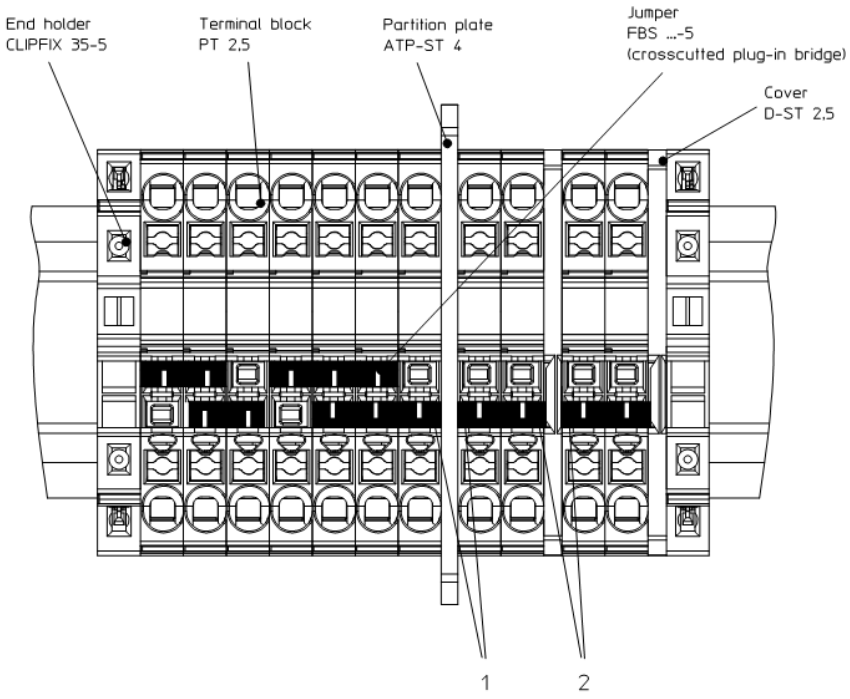
This attestation certifies the conformity with the indicated directive, it does not, however, covenant any characteristics.
The instructions for safety and installation have to be observed.

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
32825 Blomberg
Germany

 +49 – (0) 52 35 – 3-00
 +49 – (0) 52 35 – 3-4 12 00
 www.phoenixcontact.com

Enclosure

Notes on the application of cut-to-length plug-in bridges



Depending on the separating plate between directly facing plug-in bridges, the rated voltages reduces to

1) 550 V with ATP-ST 4
2) 275 V with D-ST 2,5

when using cut-to-length plug-in bridges.

Other combinations as presented are not permissible and therefore not covered by the certificate.