



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx SEV 14.0010U**

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Certificate history:

Status: **Current**

Issue No: 5

[Issue 4 \(2023-11-17\)](#)

[Issue 3 \(2021-06-25\)](#)

[Issue 2 \(2015-01-20\)](#)

[Issue 1 \(2014-08-21\)](#)

[Issue 0 \(2014-07-14\)](#)

Date of Issue: 2026-03-06

Applicant: **Phoenix Contact GmbH & Co. KG**
Flachsmarktstrasse 8
DE-32825 Blomberg
Germany

Ex Component: Terminal blocks MPT 1,5/S ..., MPT 2,5 ..., MPTD 2,5 ..., MPT 4

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **e**

Marking: Ex eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Thomas Köhntopp

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

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E&E



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Manufacturer: **Phoenix Contact GmbH & Co. KG**
Flachsmarktstrasse 8
DE-32825 Blomberg
Germany

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CH/SEV/ExTR14.0011/04](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/10](#)



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Ex Component(s) covered by this certificate is described below:

Terminal blocks MPT 1,5/S ..., MPT 2,5 ..., MPTD 2,5 ..., MPT 4

The terminal blocks and protective conductor terminal blocks of the MPT and MPTD series consists of an insulating housing (PA 6.6) which are equipped with current bar(s), screw-type clamping units to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres).

If needed, two or more pole of adjacent terminal blocks can be connected with cross connectors FBS (jumper bridges) to build groups of terminals with the same potential.

Accessories are covers, partition plates, jumper and end brackets.

These terminal blocks can be mounted on standard support rails according to IEC/EN 60715-TH 15 (NS 15) or IEC/EN 60715-TH 35 (NS 35).

The MPT series are single miniature terminal blocks, while the MPTD series are double miniature terminal blocks.

MPT 2.5-M, MPT 2.5-RZ, MPT 2.5-NS 15, MPT 2.5-NS 35, MPTD 2.5-M, MPTD 2.5-NS 15, MPTD 2.5-NS 35, and MPTD 2.5-RZ can be clipped together. A suitable end cover plate is always required to ensure dielectric strength.

Classification of installation and use:	Fixed
Ingress protection:	N/A
Rated ambient temperature range (°C):	N/A
Rated ambient temperature range (°C) for Ex Components	-60 °C to +110 °C

SCHEDULE OF LIMITATIONS:

- The terminal blocks of the MPT series are to be installed in enclosures that meet the requirements of the standards IEC 60079-0 and IEC 60079-7 (for gas atmospheres) and IEC 60079-31 (for dust atmospheres).
- When installing the terminal blocks, clearances and creepage distances according to the standard IEC 60079-7 must be observed, in particular when using qualified terminal accessories (reduced voltage ratings apply): see manufacturer's documentation and installation instructions of MPT series. When installing the terminal blocks, the data included in the manufacturer's installation instructions of the MUT series shall be considered, in particular the temperature rise (when carrying rated current with specified conductor size) and the resistance across the terminal (with rated conductor cross-section). Reduced current ratings must be observed when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.8, 6.7 and Annex E.
- Service temperature range: from -60 °C ... +110 °C.
- The maximum surface temperature must be determined in accordance with IEC 60079-0 after installation in a housing.
- Increased safety of these terminal blocks is only guaranteed when their walls remain intact and undamaged.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The information contained in the basic test report Ref. 14-Ex-0072.01 issued 2014-07-03 remains unchanged, with the exception of the sections specified below.

Extension reports Ref. 14-Ex-0072.01 E1

- For MPT 2,5* only:
- Correction of voltage from 352 V to 440 V because of a typing mistake.

Extension reports Ref. 21CH-00396.X03

- This new report does not use the old reports. It was arranged with new reports.

Extension reports Ref. 21CH-00396.X04

- New types of terminal blocks added MPTD 2.5.
- New measurement report

Extension reports Ref. 21CH-00396OR04.X05

- New types of terminal blocks added MPT 4,0.
- New measurement reports



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Additional information:

See Annexe.

Annex:

[IECEx SEV 14.0010 U app i5 20260213_16-11.pdf](#)

Annexe to: IECEx SEV 14.0010U

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Applicant Name: PHOENIX CONTACT GmbH & Co. KG

Equipment: Terminal blocks

Ratings technical data

Type:	Terminal block MPT 1,5/S *	Terminal block MPT 1,5/S- PE	Terminal block MPT 2,5 *	Terminal block MPT 2,5-PE
Rated insulation voltage [V]	320	---	400	---
Rated voltage [V]	352	---	440 **	---
- to mounting surface	---	---	352	---
- at bridging with fixed bridge	352	---	440	---
- At bridging between non-adjacent terminal blocks	220	---	352	---
- At bridging between non-adjacent terminal blocks via PE terminal block	---	---	---	---
- At cut-to-length bridging	166	---	220	---
- At cut-to-length bridging with cover	352	---	440	---
Rated current [A]	14.5	---	20.5	---
Max. load current [A]	14.5	---	24	---
Rated current with FBS jumper bridges	---	---	---	---
Temperature rise [K]	40	---	40	---
Contact resistance [mΩ]	1,6	---	0.8	---
Rated cross-section [mm²] (AWG)	1.5 (AWG 16)	1.5 (AWG 16)	2,5 (AWG 14)	2,5 (AWG 14)
Connectable conductor cross-section	---	---	---	---
- rigid [mm²] (AWG)	0.14 – 1.5 (AWG 26 - 16)	0.14 - 1.5 (AWG 26 - 16)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
- flexible [mm²] (AWG)	0.14 - 1.5 (AWG 26 - 16)	0.14 - 1.5 (AWG 26 - 16)	0.14 – 2.5 (AWG 24 - 14)	0.14 – 2.5 (AWG 24 - 14)
Assembly as stated	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15
Stripping length [mm]	8 - 10	8 - 10	8 - 10	8 - 10
Service temperature [°C]	-60 ... +110	-60 ... +110	-60 ... +110	-60 ... +110
Torque of the clamping screws [Nm]	---	---	---	---

* = different colour versions, e.g. BU, BK, RD, etc.

** = 440V only possible in 3-phase application // 352V to carrier/PE (0V-potential)

Type:	Terminal block MPT 2,5 M *, ②	Terminal block MPT 2,5-RZ *, ①	Terminal block MPT 2,5-NS 15 *, ①	Terminal block MPT 2,5-NS- 35 *, ①
Rated insulation voltage [V]	500	500	500	500
Rated voltage [V]	550	550	550	550
- to mounting surface	550	550	550	550
- at bridging with fixed bridge	550	550	550	550
- At bridging between non-adjacent terminal blocks	352	352	352	352
- At bridging between non-adjacent terminal blocks via PE terminal block	352	352	352	352
- At cut-to-length bridging	220	220	220	220
- At cut-to-length bridging with cover	440	440	440	440
Rated current [A]	20.5	20.5	20.5	20.5
Max. load current [A]	24	24	24	24
Rated current with FBS jumper bridges	---	---	---	---
Temperature rise [K]	40	40	40	40
Contact resistance [mΩ]	0.8	0.8	0.8	0.8
Rated cross-section [mm²] (AWG)	2,5 (AWG 14)	2,5 (AWG 14)	2,5 (AWG 14)	2,5 (AWG 14)
Connectable conductor cross-section	---	---	---	---
- rigid [mm²] (AWG)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
- flexible [mm²] (AWG)	0.14 - 2.5 (AWG 24 - 14)	0.14 - 2.5 (AWG 24 - 14)	0.14 - 2.5 (AWG 24 - 14)	0.14 - 2.5 (AWG 24 - 14)
Assembly as stated	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15
Stripping length [mm]	8 - 10	8 - 10	8 - 10	8 - 10
Service temperature [°C]	-60 ... +110	-60 ... +110	-60 ... +110	-60 ... +110
Torque of the clamping screws [Nm]	---	---	---	---

- * = different colour versions, e.g. BU, BK, RD, etc.
 ① = Only with end cover plates D-MPT 2,5 RZ.
 ② = Only with end cover plates D-MPT 2,5 RZ, D-MPT 2,5-F.

Type:	Terminal block MPT 2,5-NS 15-PE	Terminal block MPT 2,5-NS 35-PE
Rated insulation voltage [V]	---	---
Rated voltage [V]	---	---
- to mounting surface	---	---
- at bridging with fixed bridge	---	---
- At bridging between non-adjacent terminal blocks	---	---
- At bridging between non-adjacent terminal blocks via PE terminal block	---	---
- At cut-to-length bridging	---	---
- At cut-to-length bridging with cover	---	---
Rated current [A]	---	---
Max. load current [A]	---	---
Rated current with FBS jumper bridges	---	---
Temperature rise [K]	---	---
Contact resistance [mΩ]	---	---
Rated cross-section [mm ²] (AWG)	2,5 (AWG 14)	2,5 (AWG 14)
Connectable conductor cross-section	---	---
- rigid [mm ²] (AWG)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
- flexible [mm ²] (AWG)	0.14 – 2.5 (AWG 24 - 14)	0.14 – 2.5 (AWG 24 - 14)
Assembly as stated	NS 15 acc. to EN 60715-TH 15	NS 15 acc. to EN 60715-TH 15
Stripping length [mm]	8 - 10	8 - 10
Service temperature [°C]	-60 ... +110	-60 ... +110
Torque of the clamping screws [Nm]	---	---

Type:	Terminal block MPTD 2,5-M *, ②	Terminal block MPTD 2,5- NS 15 *, ①	Terminal block MPTD 2,5- NS 35 *, ①	Terminal block MPTD 2,5- RZ *, ①
Rated insulation voltage [V]	500	500	500	500
Rated voltage [V]	550	550	550	550
- to mounting surface	---	---	---	---
- at bridging with fixed bridge	550	550	550	550
- At bridging between non-adjacent terminal blocks	352	352	352	352
- At bridging between non-adjacent terminal blocks via PE terminal block	---	---	---	---
- At cut-to-length bridging	150	150	150	150
- At cut-to-length bridging with cover	150	150	150	150
Rated current [A]	23	23	23	23
Max. load current [A]	29	29	29	29
Rated current with FBS jumper bridges	23	23	23	23
Temperature rise [K]	40	40	40	40
Contact resistance [mΩ]	1.33	1.33	1.33	1.33
Rated cross-section [mm²] (AWG)	2,5 (AWG 14)	2,5 (AWG 14)	2,5 (AWG 14)	2,5 (AWG 14)
Connectable conductor cross-section	---	---	---	---
- rigid [mm²] (AWG)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
- flexible [mm²] (AWG)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
Assembly as stated	NS 15 acc. to EN 60715- TH 15	NS 15 acc. to EN 60715- TH 15	NS 35 acc. to EN 60715- TH 35	NS 15 acc. to EN 60715- TH 15
Stripping length [mm]	8 - 10	8 - 10	8 - 10	8 - 10
Service temperature [°C]	-60 ... +110	-60 ... +110	-60 ... +110	-60 ... +110
Torque of the clamping screws [Nm]	---	---	---	---

* = different colour versions, e.g. BU, BK, RD, etc.
 ① = Only allowed with end cover plates D-MPT 2,5 RZ.
 ② = Only allowed with end cover plates D-MPT 2,5 RZ, D-MPT 2,5-F.

Type:	Terminal block MPT 4 *, ③	Terminal block MPT 4-PE
Rated insulation voltage [V]	400	---
Rated voltage [V]	440 **	---
- to mounting surface	352	---
- at bridging with fixed bridge	440	---
- At bridging between non-adjacent terminal blocks	352	---
- At bridging between non-adjacent terminal blocks via PE terminal block	352	---
- At cut-to-length bridging	220	---
- At cut-to-length bridging with cover	440	---
Rated current [A]	27	---
Max. load current [A]	33	---
Rated current with FBS jumper bridges	28 (4 mm ²)	---
Temperature rise [K]	40	---
Contact resistance [mΩ]	1	---
Rated cross-section [mm ²] (AWG)	4 (AWG 12)	4 (AWG 12)
Connectable conductor cross-section		
- rigid [mm ²] (AWG)	0.2 - 6.0 (AWG 24 - 10)	0.2 - 6.0 (AWG 24 - 10)
- flexible [mm ²] (AWG)	0.2 - 6.0 (AWG 24 - 10)	0.2 - 6.0 (AWG 24 - 10)
Assembly as stated	NS 15 acc. to EN 60715-TH 15	NS 15 acc. to EN 60715-TH 15
Stripping length [mm]	10 - 12	10 - 12
Service temperature [°C]	-60 ... +110	-60 ... +110
Torque of the clamping screws [Nm]	---	---

* = different colour versions, e.g. BU, BK, RD, etc.

** = 440V only possible in 3-phase application // 352V to carrier/PE (0V-potential)

③ = Nur mit Abschlussdeckeln D-MPT 4