



- (1) **EU-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 14 ATEX 0140 U**
- (4) Product: Terminal blocks MPT 1,5/S ..., MPT 2,5 ..., MPTD 2,5 ..., MPT 4 ...
- (5) Manufacturer: Phoenix Contact GmbH & Co. KG
- (6) Address: Flachsmarktstrasse 8, 32825 Blomberg, Germany
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 21CH-00396.X03, 21CH-00396.X04, 21CH-00396OR04.X05
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018**
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
- Except in respect of those requirements listed at item 18 of the schedule.
- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign «U» is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 2GD Ex eb IIC Gb

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Thomas Köhntopp
Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 14 ATEX 0140 U

(15) **General product information**

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

(16)

Report number

21CH-00396OR04.X05

(17)

"Schedule of limitations"

- The terminal blocks of the MPT series are to be installed in enclosures that meet the requirements of the standards EN IEC 60079-0 and EN 60079-7 (for gas atmospheres) and EN 60079-31 (for dust atmospheres).
- When installing the terminal blocks, clearances and creepage distances according to the standard EN 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 MPT 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 EN IEC 60079-0 after installation in a housing.
- Increased safety of these terminal blocks is only guaranteed when their walls remain intact and undamaged.



(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(18) **Drawings and Documents**

See test report “Manufacturer’s Documents”



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 [mm ²] (AWG)	1.5 (AWG 16)	1.5 (AWG 16)	2,5 (AWG 14)	2,5 (AWG 14)
Connectable conductor cross-section	---	---	---	---
- rigid [mm ²] (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 [mm ²] (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	Terminal block MPT 2,5-RZ	Terminal block MPT 2,5-NS 15	Terminal block MPT 2,5-NS- 35
	*, ②	*, ①	*, ①	*, 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 [mm ²] (AWG)	2,5 (AWG 14)	2,5 (AWG 14)	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)	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)	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 [mm²] (AWG)	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)
- flexible [mm²] (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 [mm ²] (AWG)	2,5 (AWG 14)	2,5 (AWG 14)	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)	0.14 - 4.0 (AWG 26 - 12)	0.14 - 4.0 (AWG 26 - 12)
- flexible [mm ²] (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 = Only with end cover plates D-MPT 4