

(12) Die Kennzeichnung des Produktes muss die folgenden Angaben enthalten:



**II 2 GD Ex eb IIC Gb**

M. Gamma



# Anlage

# EU-Baumusterprüfbescheinigung SEV 13 ATEX 0159 U

Die Federkraftanschlussreihenklemmen und Schutzleiter-Reihenklemmen der PT Familie bestehen aus einem Polyamid-Isolierkörper (PA 6.6), in dem ein Strombalken mit den Federkontakten ('Push-in' Technologie) verdrehsicher fixiert ist. Diese Klemmen sind zur Verwendung in Anschlussräumen der Zündschutzart Ex „e“ (in Gasatmosphären) oder Ex „t“ (in Staubatmosphären) bestimmt.

Bei Bedarf kann eine gewünschte Polzahl mit Hilfe der Steckbrücken FBS durch Eindrücken im Brückenschacht der Klemme miteinander verbunden werden. um Klemmengruppen gleichen Potentials zu bilden. Das Zubehör beinhaltet Deckel, Trennwände, überspringende Brückungen und Endhaltern. Die Befestigung der Reihenklemmen erfolgt durch Aufrasten auf Tragschienen nach IEC/EN 60715-TH 35 (NS 35).

Einsatztemperaturbereich 2: -40 °C bis +110 °C

Der Einsatztemperaturbereich 2 definiert den Einsatz der Reihenklemmen bei extremer Hitze.

Siehe Nenndaten unten.

| Typ:                              | PT 1,5/S-PE                     | PT 1,5/S-<br>QUATTRO-PE         | PT 1,5/S-TWIN-PE                |
|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Nennquerschnitt [mm²] (AWG)       | 1,5 (16)                        | 1,5 (16)                        | 1,5 (16)                        |
| Anschliessbare Leiterquerschnitte |                                 |                                 |                                 |
| - starr [mm²] (AWG)               | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              |
| - flexibel [mm²] (AWG)            | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]               | 8                               | 8                               | 8                               |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

| <b>Typ:</b>                       | <b>PTTB 1,5/S-PE</b>            | <b>PT 2,5-3PE</b>               |
|-----------------------------------|---------------------------------|---------------------------------|
| Nennquerschnitt [mm²] (AWG)       | 1,5 (16)                        | 2,5(14)                         |
| Anschliessbare Leiterquerschnitte |                                 |                                 |
| - starr [mm²] (AWG)               | 0,14 - 1,5 (26-16)              | 0,14 - 4 (26-12)                |
| - flexibel [mm²] (AWG)            | 0,14 - 1,5 (26-16)              | 0,14 - 2,5 (26-14)              |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]               | 8                               | 10                              |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                    | -40 ... +110                    |

| Typ:                              | PTS 1,5/S-PE                       | PTS 1,5/S<br>-QUATTRO-PE        | PTS 1,5/S<br>-TWIN-PE           | PTTBS 1,5/S-<br>PE                 |
|-----------------------------------|------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Nennquerschnitt [mm²] (AWG)       | 1,5 (16)                           | 1,5 (16)                        | 1,5 (16)                        | 1,5 (16)                           |
| Anschliessbare Leiterquerschnitte |                                    |                                 |                                 |                                    |
| - starr [mm²] (AWG)               | 0,14 - 1,5 (26-16)                 | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)                 |
| - flexibel [mm²] (AWG)            | 0,14 - 1,5 (26-16)                 | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)                 |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH<br>35 |
| Abisolierlänge [mm]               | 8                                  | 8                               | 8                               | 8                                  |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                        |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                       |



| Typ:                                                        | PT 6                            | PT 6-QUATTRO                    | PT 6-TWIN                       |
|-------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Nennspannung [V]                                            | 550                             | 550                             | 550                             |
| - mit Brücken FBS...                                        | 550                             | 550                             | 550                             |
| - mit überspringender Brücke [V]                            | 275                             | 275                             | 275                             |
| - mit überspringender Brücke Typ PE [V]                     | 275                             | 275                             | 275                             |
| - mit auf Länge geschnittene Brücke [V]                     | 220                             | 220                             | 220                             |
| - mit auf Länge geschnittene Brücke und Abdeckungstyp D [V] | 275                             | 275                             | 275                             |
| Nennstrom [A]                                               | 36,5                            | 36                              | 35,5                            |
| Mit Brückungstyp FBS ... [A]                                | 35                              | 35                              | 35                              |
| Max. Belastungsstrom [A]                                    | 46                              | 45                              | 44,5                            |
| Temperaturanstieg [K]                                       | 40                              | 40                              | 40                              |
| Kontaktwiderstand [mΩ]                                      | 0,48                            | 0,65                            | 0,65                            |
| Nennquerschnitt [mm²] (AWG)                                 | 6 (10)                          | 6 (10)                          | 6 (10)                          |
| Anschliessbare Leiterquerschnitte                           |                                 |                                 |                                 |
| - starr [mm²] (AWG)                                         | 0,5 - 10 (20-8)                 | 0,5 - 10 (20-8)                 | 0,5 - 10 (20-8)                 |
| - flexibel [mm²] (AWG)                                      | 0,5 - 6 (20-10)                 | 0,5 - 6 (20-10)                 | 0,5 - 6 (20-10)                 |
| Montage wie angegeben                                       | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]                                         | 12                              | 12                              | 12                              |
| Einsatztemperaturbereich 1 [°C]                             | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]                             | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

**\*\*gültig für Farbvarianten**

| Typ:                              | PT 6-PE                         | PT 6-QUATTRO-PE                 | PT 6-TWIN-PE                    |
|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Nennquerschnitt [mm²] (AWG)       | 6 (10)                          | 6 (10)                          | 6 (10)                          |
| Anschliessbare Leiterquerschnitte |                                 |                                 |                                 |
| - starr [mm²] (AWG)               | 0,5 - 10 (20-8)                 | 0,5 - 10 (20-8)                 | 0,5 - 10 (20-8)                 |
| - flexibel [mm²] (AWG)            | 0,5 - 6 (20-10)                 | 0,5 - 6 (20-10)                 | 0,5 - 6 (20-10)                 |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]               | 12                              | 12                              | 12                              |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

| Typ:                              | PT 10                              | PT 10-TWIN                      | PT 16 N                         | PT 16-TWIN N                    |
|-----------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Nennspannung [V]                  | 550                                | 550                             | 550                             | 550                             |
| - mit Brücken FBS...              | 550                                | 550                             | 550                             | 550                             |
| Nennstrom [A]                     | 52,5                               | 48,5                            | 65,5                            | 65,5                            |
| Mit Brückungstyp FBS ... [A]      | 48                                 | 48                              | 60,5                            | 60,5                            |
| Max. Belastungsstrom [A]          | 61,5                               | 61                              | 78                              | 78                              |
| Temperaturanstieg [K]             | 40                                 | 40                              | 40                              | 40                              |
| Kontaktwiderstand [mΩ]            | 0,43                               | 0,52                            | 0,31                            | 0,31                            |
| Nennquerschnitt [mm²] (AWG)       | 10 (8)                             | 10 (8)                          | 16 (6)                          | 16 (6)                          |
| Anschliessbare Leiterquerschnitte |                                    |                                 |                                 |                                 |
| - starr [mm²] (AWG)               | 0,5 - 16 (20-6)                    | 0,5 - 16 (20-6)                 | 0,5 - 25 (20-4)                 | 0,5 - 25 (20-4)                 |
| - flexibel [mm²] (AWG)            | 0,5 - 10 (20-8)                    | 0,5 - 10 (20-8)                 | 0,5 - 16 (20-6)                 | 0,5 - 16 (20-6)                 |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]               | 18                                 | 18                              | 18                              | 18                              |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

\*\* gültig für Farbvarianten

| Typ:                              | PT 10-PE                           | PT 10-TWIN-<br>PE               | PT 16 N-PE                      | PT 16-TWIN N-<br>PE             |
|-----------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                   |                                    |                                 |                                 |                                 |
| Nennquerschnitt [mm²] (AWG)       | 10 (8)                             | 10 (8)                          | 16 (6)                          | 16 (6)                          |
| Anschliessbare Leiterquerschnitte |                                    |                                 |                                 |                                 |
| - starr [mm²] (AWG)               | 0,5 - 16 (20-6)                    | 0,5 - 16 (20-6)                 | 0,5 - 25 (20-4)                 | 0,5 - 25 (20-4)                 |
| - flexibel [mm²] (AWG)            | 0,5 - 10 (20-8)                    | 0,5 - 16 (20-8)                 | 0,5 - 16 (20-6)                 | 0,5 - 16 (20-6)                 |
| Montage wie angegeben             | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Abisolierlänge [mm]               | 18                                 | 18                              | 18                              | 18                              |
| Einsatztemperaturbereich 1 [°C]   | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Einsatztemperaturbereich 2 [°C]   | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |



(16) **Prüfbericht** 19CH-00739.X08

(17) **Besondere Bedingungen**

- Die Reihenklemmen der PT Familie müssen in Gehäusen, die den Anforderungen gemäss EN IEC 60079-0 und EN 60079-7 (für Gasatmosphären) und EN 60079-31 (für Staubatmosphären) entsprechen, eingesetzt werden.
- Beim Einsatz der Klemmen ist auf die Einhaltung der erforderlichen Luft- und Kriechstrecken gemäss EN 60079-7 zu achten, insbesondere bei der Verwendung qualifizierten Klemmenzubehörs (reduzierte Nennspannungen sind anzuwenden): siehe die Dokumentation des Herstellers und die Einbauanweisungen der PT Familie.
- Beim Einsatz der Klemmen sind die Daten in den Herstellereinbauanweisungen der PT Familie zu beachten, insbesondere die Erwärmung (beim Durchlauf des Nennstromes mit spezifizierter Leitergrösse) und den Widerstand über die Klemme (mit Nennleiterquerschnitt). Reduzierte Nennstrome sind beim Einsatz mehrerer Klemmen gemäss dem Nennwert des Gehäuses zu betrachten, wie es in Absätzen 5.8, 6.7 und Anhang E erklärt wird.
- Betriebstemperaturbereich 1: -60 °C bis +85 °C.  
Betriebstemperaturbereich 2: -40 °C bis +110 °C.  
Die Reihenklemmen sind für den Einsatz in zwei getrennten Temperaturbereichen vorgesehen. Betriebstemperaturbereich 1 definiert den Einsatz der Reihenklemmen bei extremer Kälte. Betriebstemperaturbereich 2 definiert den Einsatz der Reihenklemmen bei extremer Hitze.

(18) **Grundlegende Sicherheits- und Gesundheitsanforderungen**

Zusätzlich zu den grundlegenden Sicherheits- und Gesundheitsanforderungen, welche durch die unter Punkt 9 aufgeführten Normen erfüllt sind, sind noch folgende im Testbericht überprüften Bedingungen relevant:

| <b>Paragraph</b> | <b>Thema</b> |
|------------------|--------------|
| Keine            |              |

(19) **Zeichnungen und Dokumente**

Siehe Testbericht „Hersteller Dokumente“



## EU-Type Examination Certificate

- (1)
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 13 ATEX 0159 U**
- (4) Product: Terminal blocks  
PT 1,5/S ...; PTS 1,5/S ..., PTTB 1,5 ...; PTTBS 1,5 ...;  
PT 2,5-3 ...; PTS 2,5 ..., PTTBS 2,5 ...;  
PT 6 ...; PT 10 ...; PT 16 ...
- (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 19CH-00739:X08
- (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 2 GD Ex eb IIC Gb**

**Eurofins Electric & Electronic Product Testing AG**  
**Notified Body ATEX**

Munira Gamma  
Product Certification



(13)

## Appendix

(14)

**EU-Type Examination Certificate no. SEV 13 ATEX 0159 U**(15) **Description of product**

The terminal blocks and protective conductor terminal blocks of the PT series consist of an insulating housing (PA 6.6) which is equipped with current bar(s), screwless-type clamping units (Push-in technology) 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).

When need be, two or more poles 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, insertion bridges and end brackets. These terminal blocks can be mounted on standard support rails according to IEC/EN 60715-TH 35 (NS 35).

Classification of installation and use: stationary

Ingress protection: N/A

Rated ambient temperature range (°C): N/A

Rated ambient temperature range (°C)  
for Ex Components

Service temperature range 1: -60 °C to +85 °C

Service temperature range 2: -40 °C to +110 °C

The terminal blocks are intended for use in  
two separate temperature ranges.

Service temperature range 1 defines the use of the terminal  
blocks in extreme cold.

Service temperature range 2 defines the use of the terminal  
blocks in extreme heat.

See ratings below.

| Type:                                              | PT 1,5/S                        | PT 1,5/S<br>-QUATTRO            | PT 1,5/S-TWIN                   |
|----------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Rated voltage [V]                                  | 352                             | 352                             | 352                             |
| - with jumper FBS...                               | 352                             | 352                             | 352                             |
| - with skipping jumper [V]                         | 220                             | 220                             | 220                             |
| - with skipping jumper type PE [V]                 | 220                             | 220                             | 220                             |
| - with cut to length bridge [V]                    | 166                             | 166                             | 166                             |
| - with cut to length bridge and cover type D [V]   | 275                             | 275                             | 275                             |
| - with cut to length bridge and cover type ATP [V] | 352                             | 352                             | 352                             |
| Rated current [A]                                  | 15                              | 15                              | 15                              |
| with jumper type FBS ... [A]                       | 14,5                            | 14,5                            | 14,5                            |
| Max. load current [A]                              | 15                              | 15                              | 15                              |
| Temperature rise [K]                               | 40                              | 40                              | 40                              |
| Contact resistance [mΩ]                            | 1,3                             | 1,5                             | 1,4                             |
| - first level                                      | ---                             | ---                             | ---                             |
| - second level                                     | ---                             | ---                             | ---                             |
| - third level                                      | ---                             | ---                             | ---                             |
| - lower / upper level                              | ---                             | ---                             | ---                             |
| Rated cross-section [mm <sup>2</sup> ] (AWG)       | 1,5 (16)                        | 1,5 (16)                        | 1,5 (16)                        |
| Connectable conductor cross-section                |                                 |                                 |                                 |
| - rigid [mm <sup>2</sup> ] (AWG)                   | 0,14 - 1,5<br>(26-16)           | 0,14 - 1,5<br>(26-16)           | 0,14 - 1,5<br>(26-16)           |
| - flexible [mm <sup>2</sup> ] (AWG)                | 0,14 - 1,5<br>(26-16)           | 0,14 - 1,5<br>(26-16)           | 0,14 - 1,5<br>(26-16)           |
| Assembly as stated                                 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Stripping length [mm]                              | 8                               | 8                               | 8                               |
| Service temperature range 1 [°C]                   | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Service temperature range 2 [°C]                   | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

| Type:                                        | PT 1,5/S-PE                     | PT 1,5/S-<br>QUATTRO-PE         | PT 1,5/S-TWIN-PE                |
|----------------------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                              |                                 |                                 |                                 |
| Rated cross-section [mm <sup>2</sup> ] (AWG) | 1,5 (16)                        | 1,5 (16)                        | 1,5 (16)                        |
| Connectable conductor cross-section          |                                 |                                 |                                 |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              |
| Assembly as stated                           | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Stripping length [mm]                        | 8                               | 8                               | 8                               |
| Service temperature range 1 [°C]             | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Service temperature range 2 [°C]             | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |



| Type:                                              | PTTB 1,5/S                   | PTTB 1,5/S-PV                | PT 2,5-3L and PT 2,5-L/L/N   | PT 2,5-3PV                   |
|----------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Rated voltage [V]                                  | 352                          | 352                          | 440                          | 440                          |
| - with jumper FBS...                               | 352                          | 352                          | 440                          | 440                          |
| - with skipping jumper [V]                         | 220                          | 220                          | 352                          | 352                          |
| - with skipping jumper type PE [V]                 | 220                          | 220                          | 352                          | 352                          |
| - with cut to length bridge [V]                    | 166                          | 166                          | 166                          | 166                          |
| - with cut to length bridge and cover type D [V]   | 275                          | 275                          | 352                          | 352                          |
| - with cut to length bridge and cover type ATP [V] | 352                          | 352                          | ---                          | ---                          |
| Rated current [A]                                  | 14,5                         | 14,5                         | 17                           | 17                           |
| with jumper type FBS ... [A]                       | 13,5                         | 13,5                         | 14,5                         | 14,5                         |
| Max. load current [A]                              | 14,5                         | 14,5                         | 21                           | 21                           |
| Temperature rise [K]                               | 40                           | 40                           | 40                           | 40                           |
| Contact resistance [mΩ]                            |                              |                              |                              |                              |
| - first level                                      | 1,4                          | 1,4                          | 1,2                          | 1,2                          |
| - second level                                     | 1,3                          | 1,3                          | 1,1                          | 1,1                          |
| - third level                                      | -                            | -                            | 0,8                          | 0,8                          |
| - lower / upper level                              | -                            | 1,7                          |                              | 1,3                          |
| Rated cross-section [mm <sup>2</sup> ] (AWG)       | 1,5 (16)                     | 1,5 (16)                     | 2,5 (14)                     | 2,5 (14)                     |
| Connectable conductor cross-section                |                              |                              |                              |                              |
| - rigid [mm <sup>2</sup> ] (AWG)                   | 0,14 - 1,5 (26-16)           | 0,14 - 1,5 (26-16)           | 0,14 - 4 (26-12)             | 0,14 - 4 (26-12)             |
| - flexible [mm <sup>2</sup> ] (AWG)                | 0,14 - 1,5 (26-16)           | 0,14 - 1,5 (26-16)           | 0,14 - 2,5 (26-14)           | 0,14 - 2,5 (26-14)           |
| Assembly as stated                                 | NS 35 acc. to EN 60715-TH 35 | NS 35 acc. to EN 60715-TH 35 | NS 35 acc. to EN 60715-TH 35 | NS 35 acc. to EN 60715-TH 35 |
| Stripping length [mm]                              | 8                            | 8                            | 10                           | 10                           |
| Service temperature range 1 [°C]                   | -60 ... +85                  | -60 ... +85                  | -60 ... +85                  | -60 ... +85                  |
| Service temperature range 2 [°C]                   | -40 ... +110                 | -40 ... +110                 | -40 ... +110                 | -40 ... +110                 |

| Type:                                        | PTTB 1,5/S-PE                | PT 2,5-3PE                   |
|----------------------------------------------|------------------------------|------------------------------|
| Rated cross-section [mm <sup>2</sup> ] (AWG) | 1,5 (16)                     | 2,5(14)                      |
| Connectable conductor cross-section          |                              |                              |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 1,5 (26-16)           | 0,14 - 4 (26-12)             |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 1,5 (26-16)           | 0,14 - 2,5 (26-14)           |
| Assembly as stated                           | NS 35 acc. to EN 60715-TH 35 | NS 35 acc. to EN 60715-TH 35 |
| Stripping length [mm]                        | 8                            | 10                           |
| Service temperature range 1 [°C]             | -60 ... +85                  | -60 ... +85                  |
| Service temperature range 2 [°C]             | -40 ... +110                 | -40 ... +110                 |



| Type:                                                 | PTS 1,5/S                              | PTS 1,5/S<br>-<br>QUATTRO              | PTS 1,5/S<br>-TWIN                     | PTTBS<br>1,5/S                         | PTTBS<br>1,5/S<br>-PV                  |
|-------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Rated voltage [V]                                     | 352                                    | 352                                    | 352                                    | 352                                    | 352                                    |
| - with jumper FBS...                                  | 352                                    | ---                                    | 352                                    | 352                                    | 352                                    |
| - with skipping jumper [V]                            | 220                                    | ---                                    | 220                                    | 220                                    | 220                                    |
| - with skipping jumper type PE [V]                    | 220                                    | ---                                    | 220                                    | 220                                    | 220                                    |
| - with cut to length bridge [V]                       | 166                                    | ---                                    | 166                                    | ---                                    | ---                                    |
| - with cut to length bridge and cover<br>type D [V]   | 275                                    | ---                                    | 275                                    | ---                                    | ---                                    |
| - with cut to length bridge and cover<br>type ATP [V] | 352                                    | ---                                    | 352                                    | ---                                    | ---                                    |
| Rated current [A]                                     | 15                                     | 15                                     | 15                                     | 13,5                                   | 13,5                                   |
| with jumper type FBS ... [A]                          | 14,5                                   | -                                      | 14,5                                   | 13                                     | 13                                     |
| Max. load current [A]                                 | 15                                     | 15                                     | 15                                     | 13,5                                   | 13,5                                   |
| Temperature rise [K]                                  | 40                                     | 40                                     | 40                                     | 40                                     | 40                                     |
| Contact resistance [mΩ]                               | 1,4                                    | 1,4                                    | 1,4                                    |                                        |                                        |
| - first level                                         | ---                                    | ---                                    | ---                                    | 1,7                                    | 1,7                                    |
| - second level                                        | ---                                    | ---                                    | ---                                    | 1,4                                    | 1,4                                    |
| - third level                                         | ---                                    | ---                                    | ---                                    | ---                                    | ---                                    |
| - lower / upper level                                 | ---                                    | ---                                    | ---                                    | ---                                    | 1,7                                    |
| Rated cross-section [mm²] (AWG)                       | 1,5 (16)                               | 1,5 (16)                               | 1,5 (16)                               | 1,5 (16)                               | 1,5 (16)                               |
| Connectable conductor cross-section                   |                                        |                                        |                                        |                                        |                                        |
| - rigid [mm²]<br>(AWG)                                | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  |
| - flexible [mm²]<br>(AWG)                             | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  | 0,14 - 1,5<br>(26-16)                  |
| Assembly as stated                                    | NS 35 acc.<br>to<br>EN 60715-<br>TH 35 | NS 35 acc.<br>to<br>EN 60715-<br>TH 35 | NS 35 acc.<br>to<br>EN 60715-<br>TH 35 | NS 35 acc.<br>to<br>EN 60715-<br>TH 35 | NS 35 acc.<br>to<br>EN 60715-<br>TH 35 |
| Stripping length [mm]                                 | 8                                      | 8                                      | 8                                      | 8                                      | 8                                      |
| Service temperature range 1 [°C]                      | -60 ... +85                            | -60 ... +85                            | -60 ... +85                            | -60 ... +85                            | -60 ... +85                            |
| Service temperature range 2 [°C]                      | -40 ... +110                           | -40 ... +110                           | -40 ... +110                           | -40 ... +110                           | -40 ... +110                           |

| Type:                               | PTS 1,5/S-PE                       | PTS 1,5/S<br>-QUATTRO-PE        | PTS 1,5/S<br>-TWIN-PE           | PTTBS 1,5/S-<br>PE                 |
|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|------------------------------------|
|                                     |                                    |                                 |                                 |                                    |
| Rated cross-section [mm²] (AWG)     | 1,5 (16)                           | 1,5 (16)                        | 1,5 (16)                        | 1,5 (16)                           |
| Connectable conductor cross-section |                                    |                                 |                                 |                                    |
| - rigid [mm²] (AWG)                 | 0,14 - 1,5 (26-<br>16)             | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-<br>16)             |
| - flexible [mm²] (AWG)              | 0,14 - 1,5 (26-<br>16)             | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-16)              | 0,14 - 1,5 (26-<br>16)             |
| Assembly as stated                  | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH<br>35 |
| Stripping length [mm]               | 8                                  | 8                               | 8                               | 8                                  |
| Service temperature range 1 [°C]    | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                        |
| Service temperature range 2 [°C]    | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                       |







| Type:                                        | PT 10                              | PT 10-TWIN                      | PT 16 N                         | PT 16-TWIN N                    |
|----------------------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Rated voltage [V]                            | 550                                | 550                             | 550                             | 550                             |
| - with jumper FBS...                         | 550                                | 550                             | 550                             | 550                             |
| Rated current [A]                            | 52,5                               | 48,5                            | 65,5                            | 65,5                            |
| with jumper type FBS ... [A]                 | 48                                 | 48                              | 60,5                            | 60,5                            |
| Max. load current [A]                        | 61,5                               | 61                              | 78                              | 78                              |
| Temperature rise [K]                         | 40                                 | 40                              | 40                              | 40                              |
| Contact resistance [mΩ]                      | 0,43                               | 0,52                            | 0,31                            | 0,31                            |
| Rated cross-section [mm <sup>2</sup> ] (AWG) | 10 (8)                             | 10 (8)                          | 16 (6)                          | 16 (6)                          |
| Connectable conductor cross-section          |                                    |                                 |                                 |                                 |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,5 - 16 (20-6)                    | 0,5 - 16 (20-6)                 | 0,5 - 25 (20-4)                 | 0,5 - 25 (20-4)                 |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,5 - 10 (20-8)                    | 0,5 - 10 (20-8)                 | 0,5 - 16 (20-6)                 | 0,5 - 16 (20-6)                 |
| Assembly as stated                           | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Stripping length [mm]                        | 18                                 | 18                              | 18                              | 18                              |
| Service temperature range 1 [°C]             | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Service temperature range 2 [°C]             | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |

\*\*valid for color variants

| Type:                                        | PT 10-PE                           | PT 10-TWIN-<br>PE               | PT 16 N-PE                      | PT 16-TWIN<br>N-PE              |
|----------------------------------------------|------------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                              |                                    |                                 |                                 |                                 |
| Rated cross-section [mm <sup>2</sup> ] (AWG) | 10 (8)                             | 10 (8)                          | 16 (6)                          | 16 (6)                          |
| Connectable conductor cross-section          |                                    |                                 |                                 |                                 |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,5 - 16 (20-6)                    | 0,5 - 16 (20-6)                 | 0,5 - 25 (20-4)                 | 0,5 - 25 (20-4)                 |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,5 - 10 (20-8)                    | 0,5 - 10 (20-8)                 | 0,5 - 16 (20-6)                 | 0,5 - 16 (20-6)                 |
| Assembly as stated                           | NS 35 acc. to<br>EN 60715-TH<br>35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 | NS 35 acc. to<br>EN 60715-TH 35 |
| Stripping length [mm]                        | 18                                 | 18                              | 18                              | 18                              |
| Service temperature range 1 [°C]             | -60 ... +85                        | -60 ... +85                     | -60 ... +85                     | -60 ... +85                     |
| Service temperature range 2 [°C]             | -40 ... +110                       | -40 ... +110                    | -40 ... +110                    | -40 ... +110                    |



(16) **Report number** 19CH-00739.X08

(17) **Specific conditions of use**

- The terminal blocks of the PT 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 the PT series.

- When installing the terminal blocks, the data included in the manufacturer's installation instructions of the PT 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 1: -60 °C to +85 °C  
 Service temperature range 2: -40 °C to +110 °C  
 The terminal blocks are intended for use in two separate temperature ranges.  
 Service temperature range 1 defines the use of the terminal blocks in extreme cold.  
 Service temperature range 2 defines the use of the terminal blocks in extreme heat.

(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   |         |

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

