

SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 98ATEX2366 U

(15) **Description**

Series Terminal Blocks Type QT 1,5 (BU) and Protective Conductor Series Terminal Blocks Type QT 1,5-PE with insulation piercing clamping units, with accessories (insulating parts made of PA 6.6) for the connection of copper conductors in enclosures in type of protection increased safety "e", for fixing on mounting rails type NS 35 according to EN 50 022.

Operating temperature range -40 °C ... +80 °C.

Electrical data

Type	QT 1,5-PE
Rated conductor cross section mm ² (AWG)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,5 (20)

Type	QT 1,5
Max. rated voltage	550 V
Rated current (at rated conductor cross section)	17,5 A
Max. rated voltage (with selectable cross-connectors)	275 V
Rated conductor cross section mm ² (AWG)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,5 (20)

Mounting instructions

The series terminals and protective conductor series terminals are suitable for use in enclosures in atmospheres with combustible gases and combustible dust. For combustible gases these enclosures must satisfy the requirements according to EN 50014 and EN 50019. For combustible dust these enclosures must satisfy the requirements according to prEN 50281-1-1.

When assembling the series terminals with the protective conductor terminals, the applicable creepage distances and clearances according to EN 50019, are met.

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

The clamping device of a terminal shall only be connected at a maximum of ten times.

The Series Terminal Blocks may be used, based on the self-heating when used at the above mentioned rated current and at ambient temperatures of -40 °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 T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

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Mounting instructions (continued)

If conductor cross sections smaller than 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.

Routine test

According to EN 50019, Clause 7.1.b in combination with Clause 6.1, a dielectric strength test has to be carried out.

Test documentation

	<u>signed</u>
1. Description 3204010 (4 pages)	15.07.1998
3204023 (4 pages)	15.07.1998
2. Drawing No. 00205487	14.07.1998
00205488	14.07.1998
00208352	04.12.1998
00205595	14.07.1998
00205596	14.07.1998

(16) **Report**

No. 82366

(17) **Special conditions for safe use**

None

(18) **Essential Health and Safety Requirements**

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.6	Instructions for use

These essential health and safety requirements are examined and the results are laid down in the report listed at (16).

to EC-Type Examination Certificate KEMA No. Ex-98ATEX2366 U

Manufacturer: Phoenix Contact GmbH & Co.

Address: Flachsmarktstraße 8 - 28, 32825 Blomberg, Germany

Description

In future the Series Terminal Blocks with insulation piercing clamping units Type QT 1,5 (BU), and Protective Conductor Series Terminal Blocks Type QT 1,5-PE may also be constructed in accordance with the documentation stated below.

The modifications concern:

- the mechanical construction
- the addition of Terminal Blocks Type QT 1,5-TWIN (BU) and QT 1,5-TWIN-PE
- the extension of the operating temperature range to -40 °C ... +90 °C.
(connecting temperature range -10 °C ... +90 °C).

Electrical data

Series Terminal Blocks

Type	<u>QT 1,5 (BU)</u>	<u>QT 1,5-TWIN (BU)</u>
Max. rated voltage	550 V	550 V
Max. rated voltage (with selectable cross-connectors)	175 V	175 V
Rated current (at rated conductor cross section)	17,5 A	17,5 A
Rated current (with cross connectors)	17,5 A	17,5 A
Rated conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)

Protective Conductor Terminal Blocks

Type	<u>QT 1,5-PE</u>	<u>QT 1,5-TWIN-PE</u>
Rated conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)

All other data remains unchanged.

Test documentation

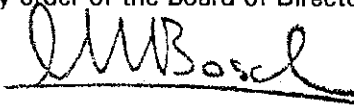
	<u>signed</u>
1. Description (16 pages)	23.03.1999
2. Drawing No. 00205487	13.03.1999
00205488	18.03.1999
00205595	18.03.1999
00205596	18.03.1999
00212942	18.03.1999
00212943	18.03.1999
00212944	18.03.1999
00212945	18.03.1999
00208352	23.03.1999

AMENDMENT 1

to EC-Type Examination Certificate KEMA No. Ex-98ATEX2366 U

Test documentation (continued)

3. Samples

Arnhem, 30 June 1999
by order of the Board of Directors of N.V. KEMAC.M. Boschloo
Certification Manager

to EC-Type Examination Certificate KEMA No. Ex-98ATEX2366 U

Manufacturer: Phoenix Contact GmbH & Co.

Address: Flachsmarktstraße 8 - 28, 32825 Blomberg, Germany

Description

In future the Series Terminal Blocks with insulation piercing clamping units Type QT 1,5 (BU) and type QT 1,5-TWIN (BU), and Protective Conductor Series Terminal Blocks Type QT 1,5-PE and type QT 1,5-TWIN-PE may also be constructed in accordance with the documentation stated below.

The modifications concern:

- the extension of the conductor cross section range into 0,34 mm² to 1,5 mm².

Electrical data

Series Terminal Blocks

Type	<u>QT 1,5 (BU)</u>	<u>QT 1,5-TWIN (BU)</u>
Max. rated voltage	550 V	550 V
Max. rated voltage (with selectable cross-connectors)	175 V	175 V
Rated current (at rated conductor cross section)	17,5 A	17,5 A
Rated current (with cross connectors)	17,5 A	17,5 A
Rated conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,34 (22)	0,34 (22)

Protective Conductor Terminal Blocks

Type	<u>QT 1,5-PE</u>	<u>QT 1,5-TWIN-PE</u>
Rated conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Max. conductor cross section mm ² (AWG)	1,5 (16)	1,5 (16)
Min. conductor cross section mm ² (AWG)	0,34 (22)	0,34 (22)

All other data remains unchanged.

Test documentation

signed

1. Description (16 pages)

05.08.1999 and
06.08.1999

- 2. Drawing No. 00205487 rev. 4)
- 00205488 rev. 2)
- 00205595 rev. 4)
- 00205596 rev. 2)
- 00212942 rev. 1)
- 00212943 rev. 1)
- 00212944 rev. 1)
- 00212945 rev. 1)

06.08.1999

AMENDMENT 2

to EC-Type Examination Certificate KEMA No. Ex-98ATEX2366 U

Test documentation (continued)

3. Samples

Arnhem, 5 October 1999
by order of the Board of Directors of N.V. KEMAC.M. Boschloo
Certification Manager