



translation

original language: German

EC-TYPE EXAMINATION CERTIFICATE

- (1) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (2) EC-Type Examination Certificate Number: KEMA 97ATEX4914 U
- (3) Components: Series Terminals Type MT 1-5, MT 1-5 FWIN, MT 1-5 QUATRO and MT 1-5
- (4) Manufacturer: Phoenix Contact GmbH & Co.
- (5) Address: Flachsmarktstraße 8 - 28, 32825 Blomberg, Germany
- (6) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (7) KEMA, notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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. 74914.
- (8) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014 : 1992 + prA1 EN 50019 : 1994 + prA1 prEN 50281-1-1 : 1997
- (9) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (10) This EC-Type Examination Certificate relates only to the design and construction of the specified components. If applicable, further requirements of this Directive apply to the manufacture and supply of these components.
- (11) The marking of the components shall include the following:

 II 2 G/D EEx e II

Amhem, 8 April 1998
by order of the Board of Directors of N.V. KEMA



C.M. Boschloo
Certification Manager

This Certificate may only be reproduced in its entirety and without any change



SCHEDULE

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to EC-Type Examination Certificate KEMA 97ATEX4914 U

(15) **Description**

Series Terminals Type MT 1,5 with two clamping units, MT 1,5-TWIN with three clamping units, MT 1,5-QUATTRO with four clamping units and MTTB 1,5 with four clamping units, for the connection of copper conductors in enclosures in type of protection increased safety "e", insulating parts made of PA 6.6, with accessories (covers, cross-connectors, end bracket and identification material) for fixing on mounting rail NS 15.

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

Electrical data

Typ	MT 1,5	MT 1,5-TWIN
Max. rated voltage	275 V	275 V
Rated current	16 A	15,5 A
Max. rated current	16 A	15,5 A
Max. current with cross-connectors	14,5 A	13 A
Rated conductor cross section (rigid)	1,5 mm ²	1,5 mm ²
Max. conductor cross section (rigid)	1,5 mm ²	1,5 mm ²
Typ	MT 1,5-QUATTRO	MTTB 1,5
Max. rated voltage	275 V	275 V
Rated current	13,5 A	15 A
Max. rated current	13,5 A	15 A
Max. current with cross-connectors	13 A	11,5 A
Rated conductor cross section (rigid)	1,5 mm ²	1,5 mm ²
Max. conductor cross section (rigid)	1,5 mm ²	1,5 mm ²

Mounting instructions

The series terminals are suitable for application 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.

At ambient temperatures from -40 °C up to +40 °C and based on the self-heating, if used at the above mentioned rated current, the series terminal blocks may be used in electrical apparatus, e.g. junction and connection boxes, for temperature class T6. If mounted in apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the value of 80 °C.

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

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

If smaller cross sections 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.

SCHEDULE

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(16) **Report**

No. 74914

(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
1.2.7	Protection against other hazards

These Essential Health and Safety Requirements are examined and the results are laid down in the report listed at (16).

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 (16 pages))	
2. Drawing No. 199.01-3)	
199.02-3)	
274.01-3)	20.10.1997
274.02-3)	
276.01-3)	
276.02-3)	
00207725)	03.03.1998
00207728)	

3. Samples

to EC-Type Examination Certificate KEMA 97ATEX4914 U

Manufacturer: **Phoenix Contact GmbH & Co.**

Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**

Description

In future the Series Terminal Blocks Type MT 1,5, MT 1,5-TWIN, MT 1,5-QUATTRO and MTTB 1,5 may also be constructed in accordance with the documentation stated below.

The modifications concern:

- the type designation; alternatively the suffix "-Ex" can be added to the type designation
- the mechanical construction.

Electrical data

<u>Typ</u>	<u>MT 1,5(-Ex)</u>	<u>MT 1,5-TWIN(-Ex)</u>
Max. rated voltage	275 V	275 V
Rated current	16 A	15,5 A
Max. rated current	16 A	15,5 A
Max. current with cross-connectors	14,5 A	13 A
Rated conductor cross section	1,5 mm ²	1,5 mm ²
Min. conductor cross section (rig./flex.) ...	0,14 mm ²	0,14 mm ²
Max. conductor cross section (rig./flex.) ..	1,5 mm ²	1,5 mm ²

<u>Typ</u>	<u>MT 1,5-QUATTRO(-Ex)</u>	<u>MTTB 1,5(-Ex)</u>
Max. rated voltage	275 V	275 V
Rated current	13,5 A	15 A
Max. rated current	13,5 A	15 A
Max. current with cross-connectors	13 A	11,5 A
Rated conductor cross section	1,5 mm ²	1,5 mm ²
Min. conductor cross section (rig./flex.) ...	0,14 mm ²	0,14 mm ²
Max. conductor cross section (rig./flex.) ..	1,5 mm ²	1,5 mm ²

All other data remains unchanged.

Test documentation

signed

1. Description (16 pages)

06.09.2000

AMENDMENT 1

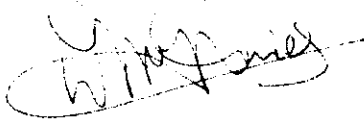
to EC-Type Examination Certificate KEMA 97ATEX4914 U

Test documentation (continued)


signed

2. Drawing No. 00212868 rev. 01)	
00212872 rev. 01)	02.06.2000
00212870 rev. 01)	
00207725 rev. 02)	

Arnhem, 3 November 2000
by order of the Board of Directors of N.V. KEMA



L.M.J. Vries
Certification Manager

Code:  II 2 G D EEx e II

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