

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX2139**

(4) Equipment or protective system: **Terminal / Junction box, series KKE...**

(5) Manufacturer: **Electromach b.v., Member of the R. STAHL Technology Group**

(6) Address: **Hamerstraat 10, 7556 MZ Hengelo, The Netherlands**

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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. 2028530.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


EN 50014 : 1997
EN 50281-1-1 : 1998

EN 50019 : 2000
EN 50020 : 2002

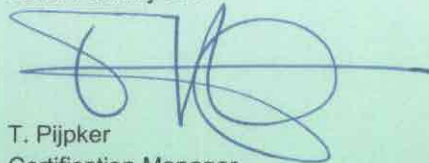
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **II 2 GD EEx e... II.. T6...T4 T 80 °C ... T 130 °C**
or
EEx ia/ib II.. T6 T 80 °C

Arnhem, 12 June 2003
KEMA Quality B.V.



T. Pijpker
Certification Manager

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

SCHEDULE

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(14)

to EC-Type Examination Certificate KEMA 03ATEX2139

(15) **Description**

Terminal / junction boxes type KKE..., for fixed installation, made of stainless or sheet steel, for mounting of, separately certified, line-up terminals for non-intrinsically and intrinsically-safe circuits, isolating terminals and/or fuses.

The apparatus marking is completed by using the codes "m", "[ia]", "[ib]" and "d" as applicable, depending on the built-in apparatus and components. For intrinsically safe circuits, the area for the terminals is marked, e.g. by a light blue colour.

The standard ambient temperature range is -20 °C ... +40 °C (temperature class T6 ... T4). The KKE terminal / junction boxes are also available with an ambient temperature range of -33 °C to +55 °C, for temperature classes T5 and T4. KKE terminal / junction boxes in type of explosion protection "ia/ib" are available with an ambient temperature range of -33 °C to + 75 °C for temperature class T6.

The temperature class T4 ... T6 of the complete unit is based on the temperature (class) of the terminals and components mounted in the enclosure. The highest temperature class is normative.

The maximum surface temperature T 80 °C, T 95 °C or T 130 °C according to EN 50281-1-1 is related to the temperature class of the terminal / junction box and based on a maximum ambient temperature of +55 °C.

Technical data

The data are dependent on the built-in components and terminals used and are to be taken from the applicable certificates and manufacturers data.

Rated voltage.....	max. 1100 V
Rated current.....	max. 160 A
Nominal conductor cross section.....	max. 300 mm ²
Degree of ingress protection	IP 54 (gas) or IP 6X (dust) according to EN 60529

Installation instruction

The operating instructions as provided by the manufacturer shall be followed in detail to assure proper and safe operation of the equipment.

Routine tests

Each KKE terminal / junction box which is ready for use, shall be subjected to routine tests according to EN 50019, clause 7.1 and/or EN 50020, clause 11.2 as applicable, using the applicable test voltage and test time, without breakdown.

(16) **Report**

KEMA No. 2028530.

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

None.

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

Covered by the standards listed at (9).

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to EC-Type Examination Certificate KEMA 03ATEX2139**(19) Test documentation**dated

1. Description (7 pages) 27.02.2003
2. Drawing 000KKE, sheet no. 1 to 13, 15 to 17, 20 and 22 03.03.2003