

(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 03ATEX2140**

(4) Equipment or protective system: **Control / Distribution box, series BKE...**

(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 50019 : 2000

EN 50281-1-1 : 1998

(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.

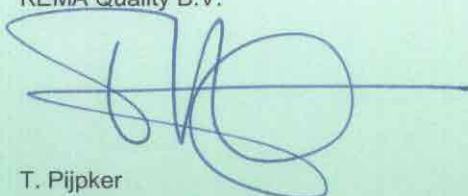
(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These 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**

Arnhem, 12 June 2003
KEMA Quality B.V.



T. Pijpker
Certification Manager

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SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 03ATEX2140

(15)

Description

Control and distribution boxes series BKE..., for fixed installation, made of stainless or sheet steel in type of explosion protection "e", for mounting of, separately certified, switchgear, control gear, measuring instruments, actuator elements, indicator lights and inspection windows.

The apparatus marking is completed by using the codes "d", "q", "m", "[ia]" and "[ib]", 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 to +40 °C. The BKE control and distribution boxes are also available with an ambient temperature range of -33 °C to +55 °C.

The temperature class T4 ... T6 of the complete unit is based on the temperature (class) of the built-in apparatus. 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 control and distribution box and based on a maximum ambient temperature of +55 °C.

Electrical 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. 630 A
Nominal conductor cross section.....	max. 300 mm ²

Installation instructions

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 BKE control and distribution 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).

SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 03ATEX2140(19) **Test documentation**dated

1. Description (13 pages)

27.02.2003

2. Drawing 000BKE, sheet no. 1 to 13, 15 to 17, 20,
22 and 23

03.03.2003