KEMA

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX2138 U**

(4) Components: **Enclosure, series LKE....**

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

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

(7) These components and any acceptable variation thereto are 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 these components have 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. 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) 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.

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

(12) The marking of the components shall include the following:

II 2 GD EEx e II

Arnhem, 12 June 2003
KEMA Quality B.V.

T. Pijpker
Certification Manager

KEMA Quality B.V.
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ACCREDITED BY THE DUTCH COUNCIL FOR ACCREDITATION

(13) # SCHEDULE

(14) **to EC-Type Examination Certificate KEMA 03TEX2138 U**

(15) **Description**

Enclosure series LKE..., for fixed installation, made of stainless or sheet steel, for mounting of electrical apparatus having a type of explosion protection in accordance with clause 1.2 of EN 50014, or in case of application in an atmosphere endangered by the presence of combustible dust, electrical apparatus complying with the relevant standards.

Ambient temperature range -33 °C ... +55 °C.

Electrical data

The allowed power dissipation for temperature classes T6, T5 and T4, as well as the maximum surface temperature "T" is to be taken from the following table:

Enclosure Type	Dimensions LxWxH (mm)	Max. power dissipation (W) / Temperature class (maximum surface temperature)		
		T6 (T 80°C)	T5 (T 95°C)	T4 (T 130°C)
101009	100x100x90	8	11	18
101509	100x150x90	11	15	24
151509	150x150x90	14	20	32
161612	160x160x120	18	26	42
361612	360x160x120	35	48	79
541612	540x160x120	50	69	113
171713	170x170x130	21	29	48
341713	340x170x130	36	50	82
343413	340x340x130	60	83	135
683413	680x340x130	107	148	242

Installation instructions

The clearance and creepage distances of the mounted electrical apparatus in type of explosion protection increased safety "e" shall satisfy the requirements stated in clause 4.3. (table 1) and clause 4.4. of EN 50019. If components in other types of explosion protection are used, the clearance and creepage distances of the relevant standards shall be met.

The degree of ingress protection of at least IP 66 and/or IP 54 according to EN 60529 is only achieved if certified cable entries and blanking elements are used that are suitable for the application and correctly installed.

(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).

(19) **Test documentation**

	dated
1. Description (4 pages)	27.02.2003
2. Drawing 000-LKE, sheet no. 1 to 13, 15 to 17	03.03.2003