



# LABORATORIO OFICIAL J. M. MADARIAGA



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- (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 nr. **LOM 15ATEX2013**
- (4) Equipment or protection system Terminal boxes  
Types STB \*
- (5) Manufacturer Dayheem Electric Industry Co.
- (6) Address 402 Imam Khomeini st.  
Ghassem Abad Rd., Khavaran Rd.  
Tehran  
IRAN
- (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) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament 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 nr. **LOM 12.172 E**
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 60079-0:2012** **EN 60079-7:2007** **EN 60079-31:2009**
- (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 and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacture 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 2G Ex e IIC T5..T6 Gb  
II 2D Ex t IIC T100 °C...T85 °C Db

Getafe, 2015-04-06

Carlos Fernández Ramón  
Head of Certification Committee

This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text

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RCPCEP 07.3/2  
Rev. 1

UNIVERSIDAD POLITÉCNICA DE MADRID  
ENSAYOS E INVESTIGACIONES DE MATERIALES Y EQUIPOS PARA ATMÓSFERAS EXPLOSIVAS Y MINERÍA  
( Real Decreto 334/1992 de 3 de Abril - BOE 1992-04-29)



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# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate nr: **LOM 15ATEX2013**

(A3) Description of equipment or protective system

Terminal boxes made in stainless steel sheet that may be used with increased safety type of protection "Ex e" which includes certified increased safety terminals and/or protection mode by enclosure "Ex t".

The boxes are designed for a maximum ambient temperature of 55 °C, depending on temperature class and rated currents.

The maximum voltage and current will be determined by the terminal ratings

Box type	Size (mm) L x W x H	Max. number of rails for mounting terminals	Maximum number of terminals				
			Wire cross section (mm <sup>2</sup> )				
			2.5	4	6	10	16
STB 1	163x163x100	1	22	21	16	13	-
STB 2	263x163x100	2	57	54	43	34	27
STB 3	413x263x115	2	107	100	80	64	51

Ambient temperature: -20 °C ≤ Ta ≤ 40 °C or -20 °C ≤ Ta ≤ 55 °C

Maximum dissipated power in each box based on the maximum ambient temperature, temperature class and surface temperature:

Type	T6 T85 °C		T5 T100 °C	
	Ta ≤ 40 °C	Ta ≤ 55 °C	Ta ≤ 40 °C	Ta ≤ 55 °C
STB 1	11,7	7,3	16,0	11,7
STB 2	17,8	11,1	24,4	17,8
STB 3	39,0	24,4	53,6	39,0

Degree of protection IP66 according EN 60529

(A4) Test report nr.: LOM 12.172 E

(A5) Special conditions for safe use

None

(A6) Individual tests

Each manufacturer unit must be submitted to dielectric tests according paragraph 7.1 of EN 60079-7:2007

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in the first page of this certificate.

(A8) Descriptive documents

- Drawings nr.: STB-SCH-CRT-001 (9 sheets)

Rev.

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Date

2015-03-24