



# LABORATORIO OFICIAL J. M. MADARIAGA



## (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 15ATEX2012**

(4) Equipment or protection system  
Terminal boxes  
Types SJB \*\*

(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

(This document may only be reproduced in its entirety and without any change) Page 1/3

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)



Eric Kandel, 1 - 28906 GETAFE (MADRID) • (34) 91 4421366 • (34) 91 4419933 • lom@lom.upm.es



# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate nr: **LOM 15ATEX2012**

(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	25	35	50	95
SJB 1	263x163x150	1	30	28	22	18	14	13	11	-	-
SJB 2S	293x263x150	2	71	66	53	42	34	31	25	21	-
SJB 2L	293x263x200	2	71	66	53	42	34	31	25	21	-
SJB 3S	363x313x150	2	131	123	98	78	63	58	47	39	-
SJB 3L	363x313x200	2	131	123	98	78	63	58	47	39	-
SJB 4S	413x263x150	2	104	97	78	62	50	46	37	31	12
SJB 4L	413x263x200	2	104	97	78	62	50	46	37	31	12
SJB 5S	413x363x150	3	156	146	117	93	75	69	56	46	12
SJB 5L	413x363x200	3	156	146	117	93	75	69	56	46	12
SJB 6	463x413x200	4	242	226	181	145	116	106	88	72	14
SJB 7	563x363x200	3	231	217	173	138	111	102	84	69	18
SJB 8	663x463x200	4	375	351	281	225	180	165	136	112	22
SJB 9	740x560x200	5	552	517	414	331	265	243	200	164	26
SJB 10	913x663x200	6	813	762	609	487	390	358	295	242	65
SJB 11	955x730x200	7	1061	995	796	637	509	468	386	316	72

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
SJB 1	16,5	10,3	22,8	16,5
SJB 2S / SJB 2L	30,0	18,7	41,1	30,0
SJB 3S / SJB 3L	38,7	24,2	53,3	38,7
SJB 4S / SJB 4L	37,2	23,2	51,1	37,2
SJB 5S / SJB 5L	53,4	33,4	73,4	53,4
SJB 6	71,1	44,5	97,8	71,1
SJB 7	75,8	47,4	104,2	75,8
SJB 8	103,5	60,5	153,0	103,5
SJB 9	124,1	77,6	170,6	124,1
SJB 10	178,1	111,3	244,9	178,1
SJB 11	196,6	122,9	270,3	196,6

Degree of protection IP66 according EN 60529

(A4) Test report nr.: LOM 12.172 E



# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate nr: **LOM 15ATEX2012**

(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.: SJB-SCH-CRT-001/ (25 sheets)

Rev.

Date

5

2015-03-24