



(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 **LOM 03ATEX2082 X**

(4) Equipment or Protection System Fans
Series COMPACT, types *CBT/*_**/* EX ***

(5) Applicant: Soler y Palau, S.A.

(6) Address: Ctra. Puigcerdá s/n
17500 RIPOLL (GERONA)
SPAIN

(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 02.091 LP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 50014:1997 + A1:1999 + A2:1999**
EN 50019:2000

(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.

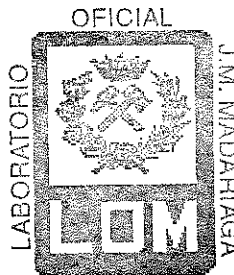
(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive applies to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

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

 II 2 G EEx e II T3

Madrid, 3 July 2003

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of TEX area

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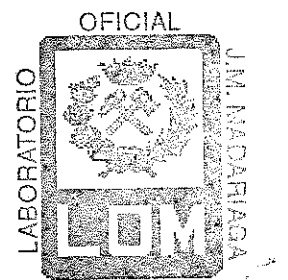
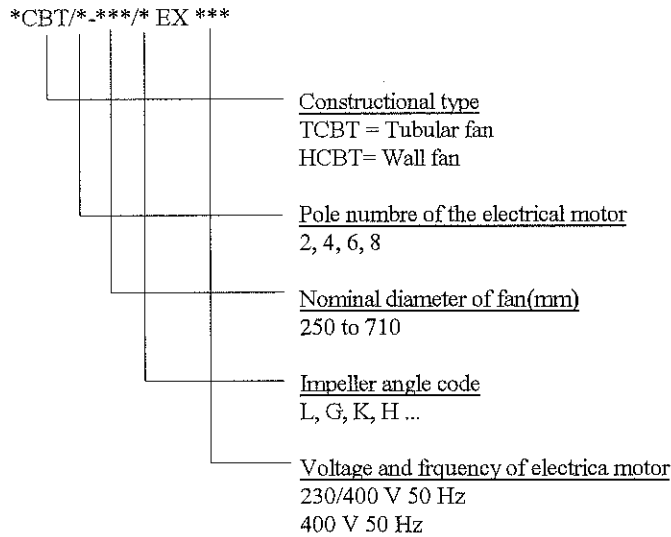
LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX2082 X**

(A3) Description of equipment or protective system

Series of fans of axial flow driven by increased safety triphasic electric motor in different sizes and with the following nomenclature of type :



Fan impellers are manufactured in injected aluminium with polyester coating, and the fan casing is made in steel.

Motor connection boxes of wall mounted fans, types MCTH, are fixed on the motor.

Motor connection boxes of tubular fans, types MCTT, are separated from motor and installed on the external side of fan.

Range of included HCBT wall fans, 4 poles motor

Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/4-315/L	MCHT/4-518	110	0,2	2,5
T/4-315/H	MCHT/4-518	150	0,3	2,5
T/4-355/L	MCHT/4-518	150	0,4	2,5
T/4-355/H	MCHT/4-530	200	0,5	2,5
T/4-400/L	MCHT/4-530	220	0,5	2,5
T/4-400/H	MCHT/4-540	300	0,8	2,5
T/4-450/L	MCHT/4-630	370	0,9	3,5
T/4-450/H	MCHT/4-640	500	1	3,5
T/4-500/L	MCHT/4-640	500	1	3,5
T/4-500/H	MCHT/4-650	660	1,6	3,5
T/4-560/L	MCHT/4-650	660	1,6	3,5
T/4-560/H	MCHT/4665	1210	2,3	4,2
T/4-630/L	MCHT/4-665	1050	2	4,2
T/4-630/H	MCHT/4-690	1550	3	4,2
T/4-710/H	MCHT/4-611	2200	4	4,5

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(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX2082 X**

(A3) Description of equipment or protective system (continue)

Range of included HCBT wall fans, 6 poles motor

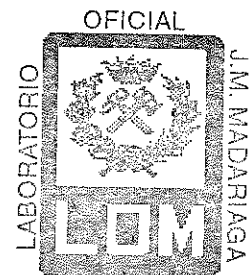
Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/6-355/H	MCHT/6-530	90	0,3	2,5
T/6-400/L	MCHT/6-530	100	0,3	2,5
T/6-400/H	MCHT/6-530	110	0,3	2,5
T/6-450/L	MCHT/6-625	160	0,5	3,0
T/6-450/H	MCHT/6-625	190	0,5	3,0
T/6-500/L	MCHT/6-625	190	0,5	3,0
T/6-500/H	MCHT/6-630	250	0,6	3,0
T/6-560/L	MCHT/6-630	280	0,6	3,0
T/6-560/H	MCHT/6-640	410	0,9	3,0
T/6-630/L	MCHT/6-640	400	0,9	3,0
T/6-630/H	MCHT/6-650	600	1,2	3,0
T/6-710/H	MCHT/6-690	1100	3,3	3,0

Range of included HCBT wall fans, 8 poles motor

Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/8-450/L	MCHT/8-625	100	0,4	2,5
T/8-450/H	MCHT/8-625	130	0,4	2,5
T/8-500/L	MCHT/8-625	130	0,4	2,5
T/8-500/H	MCHT/8-625	150	0,4	2,5
T/8-560/L	MCHT/8-650	160	0,4	2,5
T/8-560/H	MCHT/8-630	220	0,6	2,5
T/8-630/L	MCHT/8-630	210	0,6	2,5
T/8-630/H	MCHT/8-640	310	0,8	2,5
T/8-710/H	MCHT/8-665	370	1,2	3,0

Range of included TCBT tubular fans, 4 poles motor

Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/4-315/H	MCTT/4-518	140	0,3	2,5
T/4-355/H	MCTT/4-530	200	0,5	2,5
T/4-400/H	MCTT/4-540	300	0,8	2,5
T/4-450/H	MCTT/4-650	630	1,6	3,5
T/4-500/H	MCTT/4-650	880	1,7	3,5
T/4-560/H	MCTT/4-690	1520	2,8	4,2
T/4-630/L	MCTT/4-690	1900	3,2	4,2
T/4-630/H	MCTT/4-611	2220	4,0	4,2



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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX2082 X**

(A3) Description of equipment or protective system (continue)

Range of included TCBT tubular fans, 6 poles motor

Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/6-355/H	MCTT/6-530	90	0,3	2,5
T/6-400/H	MCTT/6-530	110	0,3	2,5
T/6-450/H	MCTT/6-625	200	0,5	3
T/6-500/H	MCTT/6-630	270	0,6	3
T/6-560/H	MCTT/6-640	460	1	3
T/6-630/L	MCTT/6-650	620	1,3	3
T/6-630/H	MCTT/6-690	860	2,7	3
T/6-710/L	MCTT/6-690	1100	2,8	3,5
T/6-710/H	MCTT/6-690	1300	3	3,5

Range of included TCBT tubular fans, 8 poles motor

Fan type	Motor Type	Absorbed electrical power (W)	Current (A)	I_A/I_N
T/8-450/H	MCTT/8-625	140	0,5	2,5
T/8-500/H	MCTT/8-625	140	0,5	2,5
T/8-560/H	MCTT/8-630	220	0,6	2,5
T/8-630/H	MCTT/8-640	380	1,1	2,5
T/8-710/H	MCTT/8-665	540	1,2	3,0

Specific parameters: $t_e=14$ s for MC*T/4-611 motor
 $t_e=30$ s for all others

(A4) Tets report nr. **LOM 02.091 LP**

(A5) Special conditions for a safe use

- The conditions indicated by the manufacturer have to be kept to avoid the entry of foreign bodies to the fan by means of the maintenance of the adequated IP degree of protection.

(A6) Individual tests

Each manufactured motor must be submitted to a dielectric test at 1800 Vac according the paragraph 7.1 of the standard EN 50019:2000

(A7) Essential Health and Safety Requirements

Explosion safe requirements regarding electrical risks are covered by application of the standards indicated in page 1/4 of this certificate. And for the ignition risk due to mechanical effects has been taken in account the requirements given in the document TC 305/WG 2/SG 1 WI Doc N 86-1 "Desing of fans working in potentially explosive atmospheres" de 2002-09.

(A8) Descriptive documents

	Rev.	Date
- Description nr. ATEX 001	0	2003-03-28
- Description nr ATEX 002	0	2003-03-28



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

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

(3) Supplement nr. **1** to EC-Type Examination Certificate number **LOM 03ATEX2082 X**

(4) Equipment or Protection System Fans
Series COMPACT, types *CBT/*-***/* EX ***

(5) Applicant Soler & Palau Sistemas de Ventilación, S.L.U.

(6) Address C/ Llevant, 4
Pol. Ind. Llevant
08150 – Paret del Vallès (Barcelona)
SPAIN

(7) Test report nr.: **LOM 08.541 NP**

(8) Variations included in this certificate

- To extend the ambient operating temperature to : $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
 t_E parameters change in the following fan motors, but they remain unchanged for the rest:

	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$
Motor MC*T/4-611	t_E : 14 s	t_E : 11 s
Motor MC*T/4-690	t_E : 12 s	t_E : 10 s

- Assessment update by using the standards EN 60079-0:2006 and EN 60079-7:2007

(9) Changes in marking

II 2G Ex e II T3
 $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

(10) Descriptive documents

		<u>Rev.</u>	<u>Date</u>
- Description	ATEX 02/2009	-	2009-02-16



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Madrid, 25th February, 2009

Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 03ATEX2082 X**

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(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

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

(3) Supplement nr. 2 to EC-Type Examination Certificate number **LOM 03ATEX2082 X**

(4) Equipment or Protection System Fans
Series COMPACT, types *CBT/*-***/* EX ***

(5) Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.

(6) Address C/ Llevant, 4
Pol. Ind. Llevant
08150 – Pareds del Vallès (Barcelona)
SPAIN

(7) Test report nr.: **LOM 09.536 UP**

(8) Variations included in this certificate

To include a new range of fans with two pole motors and voltage up to 500 V. The fans and motors included are the following:

Fan type	Motor type	Voltage V	Current A	Absobed power W	Speed r.p.m.	I _A /I _N	t _e	
							Ta ≤ 40 °C	Ta ≤ 55 °C
T/2-315/G	MCHT/2-540	230/400	1,4/0,8	400	2600	3,3	35	30
T/2-355/I	MCHT/2-540	230/400	1,6/0,9	510	2380	2,9	35	30
T/2-315/G	MCHT/2-540	500	0,67	400	2600	2,6	35	30
T/2-355/I	MCHT/2-540	500	0,70	510	2380	2,5	35	30

(9) Changes in marking

Those that correspond to type name and electrical characteristics.

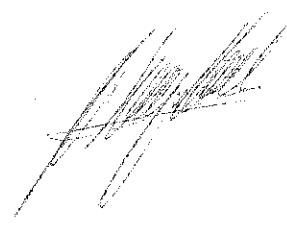
(10) Descriptive documents

- Description	ATEX 09-002	Rev.	Date
-		-	2009-10-28

Madrid, 2010-01-25


 OFICIAL

 LABORATORIO J. M. MADARIAGA
 LOM
 Carlos Fernández Ramón
 DIRECTOR OF THE LABORATORY


 Angel Vega Remesal
 Head of ATEX area

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

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

(3) Supplement nr. **3** to EC-Type Examination Certificate number **LOM 03ATEX2082 X**

(4) Equipment or Protection System Fans
Series COMPACT, types *CBT/*-***/* EX ***

(5) Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.


(6) Address Carretera Puigcerdá s/n
17500 – Ripoll (Gerona)
SPAIN

(7) Test report nr.: **LOM 13.481 NP**

(8) Variations included in this certificate

Assessment update to the standards EN 60079-0:2012 and EN 60079-7:2007

(9) Changes in marking

 II 2G Ex e IIC T3 Gb
-20 °C ≤ Ta ≤ +55 °C

(10) Changes in the special conditions for a safe use

Without changes

(11) Descriptive documents

	<u>Rev.</u>	<u>Date</u>
- Technical dossier	-	2013-10-07

Getafe, 2014-07-21

Carlos Fernández Ramón
Head of Certification Committee

This supplement must be an inseparable part together with the base certificate **LOM 03ATEX2082 X**

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1 **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres.
Directive 2014/34/EU

3 Supplementary EU-Type Examination Certificate Number **LOM 03ATEX2082X /4** issue **0**

4 Product Fans
Series COMPACT, types *CBT/*-***/* EX ***

5 Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.

6 Address Carretera Puigcerdá s/n
17500 – Ripoll (Gerona)
SPAIN

7 This supplementary certificate extends EC – Type Examination Certificate No. LOM 03ATEX2082X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 Laboratorio Oficial J.M. Madariaga (LOM), Notified Body number 0163 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive

9 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Getafe,

FERNANDEZ RAMON,
CARLOS (FIRMA)
2018.04.20 10:34:20 +02'00'

Head of Certification Committee

RCPCR 25.17/3

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LABORATORIO OFICIAL J. M. MADARIAGA

13 SCHEDULE

14 Supplementary EU-Type Examination Certificate Number **LOM 03ATEX2082X /4**

15 Description of the variation to the Product

Alternative use of rail-mounted increased safety connection terminals of type ZDUB 2.52 / 2AN from Weidmüller

16 Report Number 17.733B

17 Specific Conditions of Use

No changes

18 Essential Health and Safety Requirements

No changes

19 Documents and drawings

Number	Sheets	Issue	Date	Description
ATEX 17- 001	11	0	2017-11-02	Technical description
9023005200	-	-	2018	Instruction manual



1 **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres.
Directive 2014/34/EU

3 Supplementary EU-Type Examination Certificate Number **LOM 03ATEX2082X/5** issue **0**

4 Product Fans
Series COMPACT, types *CBT/*-***/* EX ***

5 Manufacturer Soler & Palau Sistemas de Ventilación, S.L.U.

6 Address Carretera Puigcerdá s/n
17500 – Ripoll (Gerona)
SPAIN

7 This supplementary certificate extends EC – Type Examination Certificate No. LOM 03ATEX2082X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 Laboratorio Oficial J.M. Madariaga (LOM), Notified Body number 0163 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive

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Getafe,
Signed electronically by:

Certification Committee

RCPCR 25.17/4

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13 SCHEDULE

14 Supplementary EU-Type Examination Certificate Number **LOM 03ATEX2082X/5**

15 Description of the variation to the Product

- Alternative use of rail-mounted increased safety connection terminals of type ZDUB 2.5-2/4AN from Weidmüller
- Update to the standards EN 60079-0:2012 and EN 60079-7:2015
- Change of the marking



II 2G Ex eb IIB T3 Gb

16 Report Number **19.093R**

17 Specific Conditions of Use

No changes

18 Essential Health and Safety Requirements

No changes

19 Documents and drawings

Number	Sheets	Issue	Date	Description
ATEX 19-001	18	-	2019-01-09	Technical description