



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx EUT 14.0001X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2022-07-15)
Date of Issue:	2022-12-21		Issue 3 (2021-06-29)
Applicant:	ORANGE1 ELECTRIC MOTORS S.p.A. Via Mantova, 93 43122 Parma Italy		Issue 2 (2019-02-08)
Equipment:	Series O-M three-phase and single-phase asynchronous squirrel cage rotor motors, supplied by mains or inverter		
Optional accessory:	Terminal box and Capacitor box		
Type of Protection:	Flameproof enclosures "d"; Equipment dust ignition protection by enclosure "t", Increased safety "e"		
Marking:	Ex db IIC T5 ... T3 Gb or Ex db IIC T5 ... T3 Gb Ex tb IIIC T125°C Db or Ex db eb IIC T5 ... T3 Gb or Ex db eb IIC T5 ... T3 Gb Ex tb IIIC T125°C Db -40°C ≤ Tamb ≤ +60°C Relationships between ambient temperature range and temperature limits are reported in the attachement		

Approved for issue on behalf of the IECEx
Certification Body:

Dionisio Bucchieri

Position:

Head of IECEx CB

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Product Testing Italy S.r.l.
Via Cuorgnè
n.21 - 10156 Torino
Italy

eurofins | Product Testing



IECEx Certificate of Conformity

Certificate No.: **IECEx EUT 14.0001X**

Page 2 of 4

Date of issue: 2022-12-21

Issue No: 5

Manufacturer: **ORANGE1 ELECTRIC MOTORS S.p.A.**
Via Mantova, 93
43122 Parma
Italy

Manufacturing
locations: **ORANGE1 ELECTRIC MOTORS
S.p.A.**
Via Mantova, 93
43122 Parma
Italy

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IT/EUT/ExTR14.0001/05](#)

Quality Assessment Report:

[IT/EUT/QAR14.0001/10](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx EUT 14.0001X**

Page 3 of 4

Date of issue: 2022-12-21

Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The motors are made of aluminium and have separate parts: motor enclosure, terminal box for supply and capacitor enclosure (optional). The motors are suitable for group IIC and group IIIC.

The motor enclosure has types of protection "Ex d" and "Ex t";

The terminal box can have types of protection "Ex d" and "Ex t" or "Ex e" and "Ex t"; A version without terminal box and with a smaller box (flat box) for supply cable connection with splicing or head to head connectors is also available

The capacitor enclosure has types of protection "Ex d" and "Ex t";

See the detailed description in the annexed document to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

•Supply voltage must be within:

- $\pm 5\%$ of the nominal value for temperature class T5;

- $\pm 10\%$ of the nominal value for temperature class T3 or T4.

•Flameproof joints are not intended to be repaired.

•The anti-condensation heater can be activated only when the motor is not powered.



IECEx Certificate of Conformity

Certificate No.: **IECEx EUT 14.0001X**

Page 4 of 4

Date of issue: 2022-12-21

Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The high efficiency version (IE2) for single phase motors has been included in the scope of the certificate

Annex:

[Annex to CoC.pdf](#)