



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 INE 15.0054X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2016-02-10)

Status: **Current** Issue No: 1

Date of Issue: 2022-01-17

Applicant: **ATAM S.p.A**
Via Archimede, 7
20864 Agrate Brianza (MB)
Italy

Equipment: **Solenoid type 271GD....**

Optional accessory:

Type of Protection: **db, tb**

Marking: Ex db I Mb
Ex db IIC T6 or T5 Gb
Ex tb III C T85°C or T100°C Db IP66/67

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:



Thierry HOUEIX

Ex Certification Officer

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification

2022-01-17

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Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks |
for sustainable development



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Manufacturer: **ATAM S.p.A**
Via Archimede, 7
20864 Agrate Brianza (MB)
Italy

Additional
manufacturing
locations:

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

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 Reports:

[FR/INE/ExTR15.0061/00](#)

[FR/INE/ExTR15.0061/01](#)

Quality Assessment Report:

[IT/CES/QAR15.0002/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The solenoid type 271GD are device suitable to be installed in zone 1 / zone 21 with type of protection Ex db IIC / Ex tb IIIC and Ex db I for mine.

Coils are designed to operate from either AC (24±230V) or DC (12±125V) power. Variations in rated voltage greatly affect coil force characteristics, instead the current and the number of wire turns determine the coil's magnetic flux.

This equipment gets the protection degrees IP66/IP67 according to the EN/IEC 60529 standards.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The dimensions of flameproof joints are different from the values specified in the tables of the IEC 60079-1 standard. For any repair on flameproof joints, contact the manufacturer for information.

- For the equipment with a permanently connected cable, the user shall connect the free extremity of cable either in a non-explosive atmosphere, or in an enclosure protected by a recognized protection mode adapted to the area.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 01 :

Application of IEC 60079-0:2017 standard

Annex:

[IECEX INE 15.0054X-01_Annex.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Electrical parameters

Rated voltage : 12 ÷ 125 VDC
24 ÷ 230 VAC - 50/60 Hz

Maximum power : 6.5 ÷ 11 W

The temperature class and the maximum surface temperature depends on the solenoid power:

Temperature class	Maximum surface temperature	Rated Voltage	Max. Power
T5	T100°C	12 ÷ 125 VDC	9.5 W
T5	T100°C	24 ÷ 230 VAC	11.0 W
T6	T85°C	12 ÷ 125 VDC	6.5 W
T6	T85°C	24 ÷ 230 VAC	7.0 W

EQUIPMENT CODE

271 GD

□ □ □ □ □

Optional suffixes not influential on the equipment and the type of protection

F = version for group II (gas) and III (dust) only
x = version for group I (mine), II (gas) and III (dust)

Cable length:
xx = xx m of cable (E = 0.5 m)

Alternate Current / Direct Current
0 = AC
1 = DC

Temperature class / Maximum surface temperature:
A = T5 / T100°C
B = T6 / T85°C



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MARKING

Marking has to be readable and indelible; it has to include the following indications:

- ATAM S.p.A
- 20864 Agrate Brianza (MB) - ITALY
- 271GD... (*)
- (Serial Number)
- IECEx INE 15.0054X
- Ex db I Mb
- Ex db IIC T6 *or* T5 Gb (**)
- Ex tb IIIC T85°C *or* T100°C Db (**)
- IP66/IP67
- WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

(*) The type is completed by numbers and/or letters in accordance with the manufacturing variations.

(**) See table in PARAMETERS RELATING TO THE SAFETY for temperature class

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard, each piece of equipment defined above has to have successfully passed, before delivery, an overpressure test during at least 10 seconds under 20 bar.