

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2] **Equipment and Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU – Annex III

[3] Certificate Number: **EPT 17 ATEX 2702 X** **Issue 0**

[4] Equipment: **Submersible electropumps**

Series: **AM-Ex, AT-Ex, GM-Ex, GT-Ex, HM-Ex, HT-Ex, VM-Ex, VT-Ex**

Sizes: **125 – 152 - 173**

[5] Manufacturer: **DRENO POMPE S.r.l.**

[6] Address: **Via Umbria n° 15, 35043 Monselice (PD) - Italia**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N° EPT.17.REL.02/55131


[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the standards:

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 80079-36:2016, EN 80079-37:2016

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the sign  and the following strings:

II 2G

Ex db IIB T4 Gb

Ex h IIB T4 Gb

0°C ≤ T_a ≤ +40°C

Place and date of issue:

Torino, 2017-09-06



Dionisio Buccheri

Dionisio Buccheri
 Directive Responsible

Paolo Trisoglio

Paolo Trisoglio
 Managing Director



SGQ N° 133A

PRD N° 119B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
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This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

[13]

ANNEX

[14]

EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2702 X
Issue 0

[15] Equipment description

The submersible electropumps of group IIB have respectively the type of protection "Ex d" and liquid immersion "h".

The enclosure is made of cast iron GG 25 (the paint used does not exceed 2 mm).

The equipment are equipped with auxiliary devices (thermal protectors).

The electropumps must be always installed with a device for the control of the liquid level that interrupts the power supply in case of a liquid level lower than the minimum allowed.

Electrical characteristics:

Rated supply: 400 V or 230 V (Supply voltage must be within $\pm 5\%$ of the nominal value)

Rated frequency: 50 Hz

Insulation class: F (155°C)

Degree of protection: IP 68

Maximum immersion depth: 20 m

Ambient temperature: $0 \div +40^\circ\text{C}$

Temperature of the pumped liquid $0 \div +40^\circ\text{C}$

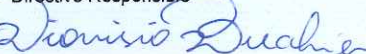
List of submersible electropumps:

Model	Single-phase Three-phase	Pn (kW)	Model	Single-phase Three-phase	Pn (kW)
AM-Ex 65/2/125 C.236	Single-phase	1.5	HT-Ex 65/2/152 C.502	Three-phase	3.2
AT-Ex 65/2/125 C.236	Three-phase	1.5	HT-Ex 65/2/152 C.503	Three-phase	4.2
AT-Ex 65/2/125 C.237	Three-phase	2.2	AT-Ex 80/4/152 C.244	Three-phase	2.2
AM-Ex 80/4/125 C.242	Single-phase	1.6	AT-Ex 80/4/152 C.245	Three-phase	3
AT-Ex 80/4/125 C.242	Three-phase	1.6	AT-Ex 100/4/152 C.243	Three-phase	1.7
GM-Ex 50/2/125 C.155	Single-phase	1.7	AT-Ex 100/4/152 C.244	Three-phase	2.2
GT-Ex 50/2/125 C.155	Three-phase	1.7	AT-Ex 100/4/152 C.245	Three-phase	3
GM-Ex 50/2/125 C.160	Single-phase	2.3	VT-Ex 80/4/152 C.343	Three-phase	1.7
GT-Ex 50/2/125 C.160	Three-phase	2.3	VT-Ex 80/4/152 C.344	Three-phase	2.2
HM-Ex 50/2/125 C.500	Single-phase	1.5	VT-Ex 80/4/152 C.345	Three-phase	3
HT-Ex 50/2/125 C.500	Three-phase	1.5	VT-Ex 100/4/152 C.348	Three-phase	1.7
HT-Ex 50/2/125 C.501	Three-phase	2.2	VT-Ex 100/4/152 C.349	Three-phase	2.2
VM-Ex 65/2/125 C.336	Single-phase	1.5	VT-Ex 100/4/152 C.350	Three-phase	3
VT-Ex 65/2/125 C.336	Three-phase	1.5	AT-Ex 80/2/173 C.254	Three-phase	5.5
VT-Ex 65/2/125 C.337	Three-phase	2.2	AT-Ex 80/2/173 C.257	Three-phase	7.5
VM-Ex 80/4/125 C.341	Single-phase	1.1	AT-Ex 80/2/173 C.259	Three-phase	9.5
VT-Ex 80/4/125 C.341	Three-phase	1.1	VT-Ex 80/2/173 C.354	Three-phase	5.2
VM-Ex 80/4/125 C.342	Single-phase	1.25	VT-EX 80/2/173 C.357	Three-phase	7.5


SGQ N° 133A
PRD N° 119B

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Page 2 of 4
 2017/09/06

[13]

ANNEX

[14]

EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2702 X

Issue 0



Model	Single-phase Three-phase	Pn (kW)	Model	Single-phase Three-phase	Pn (kW)
VT-Ex 80/4/125 C.342	Three-phase	1.25	GT-Ex 50/2/173 C.175	Three-phase	6.2
AT-Ex 65/2/152 C.246	Three-phase	3.2	GT-Ex 65/2/173 C.180	Three-phase	7.8
AT-Ex 65/2/152 C.247	Three-phase	4.2	GT-Ex 65/2/173 C.185	Three-phase	9.5
AT-Ex 80/2/152 C.246	Three-phase	3.2	HT-Ex 65/2/173 C.504	Three-phase	5.5
AT-Ex 80/2/152 C.247	Three-phase	4.2	HT-Ex 65/2/173 C.505	Three-phase	7.5
VT-Ex 65/2/152 C.346	Three-phase	3.2	AT-Ex 100/4/173 C.255	Three-phase	4
VT-Ex 65/2/152 C.347	Three-phase	4.2	AT-Ex 100/4/173 C.256	Three-phase	5.5
VT-Ex 80/2/152 C.346	Three-phase	3.2	AT-Ex 150/4/173 C.258	Three-phase	7.5
VT-Ex 80/2/152 C.347	Three-phase	4.2	VT-Ex 100/4/173 C.355	Three-phase	4
GT-Ex 50/2/152 C.165	Three-phase	3.2	VT-Ex 100/4/173 C.356	Three-phase	6
GT-Ex 50/2/152 C.170	Three-phase	4.2	VT-Ex 100/4/173 C.358	Three-phase	7.5

Warning label

None

Routine test

None

[16] **Assessment Report n° EPT.17.REL.02/55131**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this Certificate; performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition for a safe use**

- Supply voltage must be within $\pm 5\%$ of the nominal value;
- Flameproof joints cannot be repaired;
- The submersible pump shall operate only completely submersed. A suitable separate protection device shall be installed to prevent the pump from operating when not fully submersed;
- Use screws with property class A2-70.

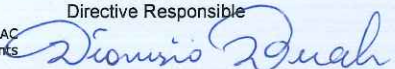
[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.


SGQ N° 133A
PRD N° 119B

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Page 3 of 4
2017/09/06

[13]

ANNEX

[14]

EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2702 X

Issue 0


[19] **Descriptive documents**

The equipment objects of this Certificate is described by the following documents.
Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev.	Date	Scheduled
Technical drawing Cod. 444	30104440	2	2010-12-13	✓
Technical drawing Cod. 555	30105550	1	2010-12-13	✓
Technical drawing Cod. 666	30106660	1	2010-12-13	✓
Technical drawing Cod. 455	31004551	1	2010-11-08	✓
Technical drawing Cod. 530	31005300	3	2013-04-05	✓
Technical drawing Cod. 622N	31006221	2	2010-11-27	✓
Technical drawing Cod. 446N	33404460	4	2015-09-17	✓
Technical drawing Cod. 531N	33405310	2	2015-04-28	✓
Technical drawing Cod. 630N	33406300	2	2015-04-28	✓
Technical drawing Cod. 404	06405120	0	2009-09-03	✓
Technical drawing Cod. 401	06405200	1	2011-09-20	✓
Technical drawing Cod. 399EX	07310160	0	2009-09-02	✓
Technical drawing Cod. 398B-EX	07310220	0	2009-09-02	✓
Fasteners	Viti-fori-filettature	0	2017-09-01	✓
Marking Label	IQ.D.14	5	2017-09-01	✓
Manual for use and maintenance	Sp2_0.18-09800200	0	2017-09-01	✓

[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the 2014/34/EU Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

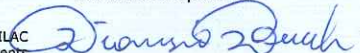
[21] **Certificate History**

This Certificate is at its first issue and replace the EC-TYPE EXAMINATION CERTIFICATE n. EUM1 11 ATEX 0528 X and its supplements n. 1 and 2.


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PRD N° 119B

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Page 4 of 4
2017/09/06

End of Certificate