

[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 2701 X** Issue 1

[4] Equipment: **Submersible electropumps**

Series: **GM-Ex, GT-Ex, AM-Ex, AT-Ex, BIC PRO-Ex, Alpha-V PRO-Ex, Compatta-PRO-Ex, DNA-Ex, DNB-Ex**

[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.18.REL.01/55874

[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

0°C ≤ T_a ≤ +40°C

Ex h IIB T4 Gb

Place and date of issue:
Torino, 2018-03-30



Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director



PRD N° 119B

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This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.



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EU-TYPE EXAMINATION CERTIFICATE N. EPT 17 ATEX 2701 X

Issue 1

[15] Equipment description

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

The enclosure is made of cast iron G 20 (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)

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:

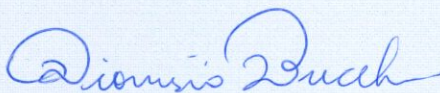
Model	Number of phases	Rated Power (kW)
GM-Ex 50/2/110 C.149	Single-phase	0.9
GT-Ex 50/2/110 C.149	Three-phase	0.9
GM-Ex 50/2/110 C.150	Single-phase	1.1
GT-Ex 50/2/110 C.150	Three-phase	1.1
AM-Ex 50/2/110 C.225	Single-phase	1.1
AM-Ex 50/2/110 C.225/G	Single-phase	1.1
AT-Ex 50/2/110 C.225	Three-phase	1.1
AM-Ex 50/2/110 C.226	Single-phase	1.5
AM-Ex 50/2/110 C.226/G	Three-phase	1.5
AT-Ex 50/2/110 C.226	Three-phase	1.5

Model	Number of phases	Rated Power (kW)
BIC PRO-Ex 50-2/150 M	Single-phase	1.5
BIC PRO-Ex 50-2/150 M/G	Single-phase	1.5
BIC PRO-Ex 50-2/220 T	Three-phase	2.2

Model	Number of phases	Rated Power (kW)
DNA-Ex 50-2/110 M/T	Single-phase / Three-phase	1.1
DNA-Ex 50-2/150 M/T	Single-phase / Three-phase	1.5
DNA-Ex 50-2/220 T	Three-phase	2.2
DNA-Ex 50-2/220-1 T	Three-phase	2.2
DNA-Ex 50-4/090 M/T	Single-phase / Three-phase	0.9
DNA-Ex 65-2/110 M/T	Single-phase / Three-phase	1.1
DNA-Ex 65-2/150 M/T	Single-phase / Three-phase	1.5
DNA-Ex 65-2/220 T	Three-phase	2.2
DNA-Ex 80-2/110 M/T	Single-phase / Three-phase	1.1
DNA-Ex 80-2/150 M/T	Single-phase / Three-phase	1.5
DNA-Ex 80-2/220 T	Three-phase	2.2
DNA-Ex 80-4/090 M/T	Single-phase / Three-phase	0.9


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Model	Number of phases	Rated Power (kW)
DNB-Ex 65-2/080 M/T	Single-phase / Three-phase	0.8
DNB-Ex 65-2/110 M/T	Single-phase / Three-phase	1.1
DNB-Ex 65-2/150 M/T	Single-phase / Three-phase	1.5
DNB-Ex 65-2/220 T	Three-phase	2.2
DNB-Ex 65-2/220-1 T	Three-phase	2.2
DNB-Ex 65-2/220-2 T	Three-phase	2.2
DNB-Ex 80-2/150 M/T	Single-phase / Three-phase	1.5
DNB-Ex 80-2/220 T	Three-phase	2.2
DNB-Ex 80-2/220-1 T	Three-phase	2.2
DNB-Ex 80-4/110 M/T	Single-phase / Three-phase	1.1

Model	Number of phases	Rated Power (kW)
COMPATTA PRO-Ex 50-2/060 M/T	Single-phase / Three-phase	0.6
COMPATTA PRO-Ex 50-2/080 M/T	Single-phase / Three-phase	0.8
COMPATTA PRO-Ex 50-2/110 M/T	Single-phase / Three-phase	1.1
COMPATTA PRO-Ex 50-2/150 M/T	Single-phase / Three-phase	1.5
COMPATTA PRO-Ex 50-2/220 T	Three-phase	2.2
ALPHA-V PRO-Ex 50-2/060 M/T	Single-phase / Three-phase	0.6
ALPHA-V PRO-Ex 50-2/080 M/T	Single-phase / Three-phase	0.8
ALPHA-V PRO-Ex 50-2/110 M/T	Single-phase / Three-phase	1.1
ALPHA-V PRO-Ex 50-2/150 M/T	Single-phase / Three-phase	1.5
ALPHA-V PRO-Ex 50-2/220 T	Three-phase	2.2

Warning label

None

Routine test

None

[16] **Assessment Report n° EPT.18.REL.01/55874**

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.



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

Assured by compliance with harmonized standards.

[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. 385	30103850	3	2011-09-26	✓
Technical drawing cod.358N	31003580	1	2015-12-18	✓
Technical drawing cod.359N	31003591	1	2015-12-18	✓
Technical drawing cod.379	32403790	2	2012-02-21	✓
Technical drawing cod.389N	30103891	4	2017-01-24	✓
Technical drawing cod.371N	32403711	1	2013-04-10	✓
Technical drawing cod.380	30103800	5	2010-12-06	✓
Technical drawing cod.402	07310140	0	2009-05-25	✓
Technical drawing cod.400	06405180	0	2009-05-22	✓
Technical drawing cod.391	30103910	1	2014-11-28	✓
Fasteners	Viti-fori-filettature	0	2017-09-01	✓
Marking Label	IQ.D.14	5	2017-09-01	✓
Manual for use and maintenance	Mda_0.18-09800245	0	2018-02-01	✓

[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**

Issue	Description	Issue date
0	First emission, replacement of the EC-TYPE EXAMINATION CERTIFICATE n. EUM1 11 ATEX 0364 X and its supplements n. 1 and 2	2017-09-06
1	Addition of new series (DNA-Ex and DNB-Ex), change name from "ALPHA-EX" to "BIC PRO-Ex"	2018-03-30



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End of Certificate