



[1]

EU-TYPE EXAMINATION CERTIFICATE

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

 [3] Certificate Number: **EPT 17 ATEX 2701 X issue 3**

 [4] Equipment: **Submersible electropumps
GX-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 26th 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.21.REL.01/1913136 Rev.1


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

EN IEC 60079-0:2018, EN 60079-1:2014, EN ISO 80079-36:2016, EN ISO 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.

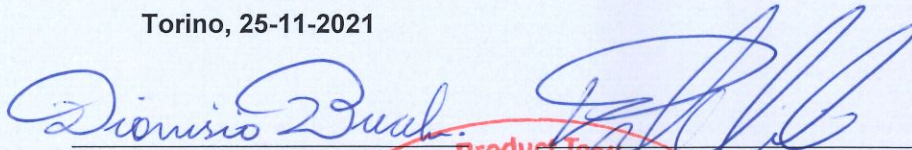
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

 [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 ≤ Tamb ≤ +40°C

Place and date of issue:

(DD-MM-YYYY)

Torino, 25-11-2021


 Dionisio Bucchieri
 Directive Responsible

 Paolo Trisoglio
 Managing Director



PRD N° 119B

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CP-ATEX-MOD-26-00



This Certificate has 6 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 2701 X issue 3**
[15] Equipment description

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

The enclosure is made of cast iron G 20 (the paint used does not exceed 2 mm).

The equipment is provided 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 ÷ +40 °C

Temperature of the pumped liquid 0 ÷ +40 °C

List of submersible electropumps:

Model	Single-phase / Three-phase	Rated Power (kW)
GX-Ex 50-2/090 M	Single-phase	0.9
GX-Ex 50-2/090 T	Three-phase	0.9
GX-Ex 50-2/110 M	Single-phase	1.1
GX-Ex 50-2/110 T	Three-phase	1.1
GX-Ex 50-2/150 M	Single-phase	1.5
GX-Ex 50-2/150 T	Three-phase	1.5
GX-Ex 50-2/220 T	Three-phase	2.2
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	Single-phase / Three-phase	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

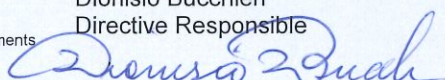


PRD N° 119B

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CP-ATEX-MOD-26-00

 Dionisio Bucchieri
Directive Responsible



 Page 2 of 6
25-11-2021

[13]

[14]



ANNEX
EU-TYPE EXAMINATION CERTIFICATE
N. EPT 17 ATEX 2701 X issue 3

Model	Single-phase / Three-phase	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

Model	Single-phase / Three-phase	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

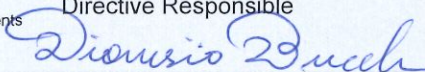


PRD N° 119B

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CP-ATEX-MOD-26-00

Dionisio Bucchieri
 Directive Responsible



 Page 3 of 6
 25-11-2021



[13]

[14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE
N. EPT 17 ATEX 2701 X issue 3

Model	Single-phase / Three-phase	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

- DO NOT OPEN WHILE ENERGISED

Routine tests

None.

[16] Assessment Report n° EPT.21.REL.01/1913136 Rev.1

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

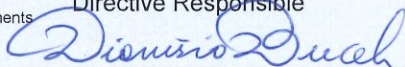
- Supply voltage must be within $\pm 5\%$ of the nominal value;
- Flameproof joints cannot be repaired;
- The submersible pump shall operate only completely submersed in liquid having temperature included in the range $0^{\circ}\text{C} \div +40^{\circ}\text{C}$. A suitable separate protection device shall be installed to prevent the pump from operating when not fully submersed;
- Use screws with property class A2-70.
- Before use, check that the additional cable retaining clamp is installed on the cable gland in order to prevent the pulling force from being transmitted to the terminations. Refer to the instructions for details.



PRD N° 119B
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CP-ATEX-MOD-26-00

Dionisio Bucchieri
 Directive Responsible



Page 4 of 6
 25-11-2021



[13]

[14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE
N. EPT 17 ATEX 2701 X issue 3

[18] Essential Health and Safety Requirements

Assured by compliance with harmonized standards.

[19] Descriptive documents

The equipment object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date
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	07310130	1	2021-12-12
Technical drawing cod.400	06405180	0	2009-05-22
Technical drawing cod.391	30103910	1	2014-11-28
Assembly drawing GX-Ex 50-2/150 and GX-Ex 50-2/220T	Documento di insieme pompa GX 50-2/150 e GX 50-2/220T	0	2021-05-03
Technical drawing cod.243	30102430	0	2018-02-22
Technical drawing cod.244	30102440	0	2018-02-22
Fasteners	Viti-fori-filettature	0	2017-09-01
*Marking Label	IQ.D. 14	7	2021-11-25
*Manual for use and maintenance	Mda_0.21-09800245	3	2021-11-25

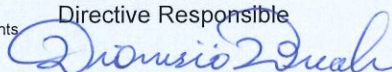
Note: An * is included before the title of documents that are new or revised.



PRD N° 119B
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CP-ATEX-MOD-26-00

Dionisio Bucchieri
 Directive Responsible



Page 5 of 6
 25-11-2021



[13]

ANNEX

[14]

**EU-TYPE EXAMINATION CERTIFICATE
N. EPT 17 ATEX 2701 X issue 3**
[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 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] History

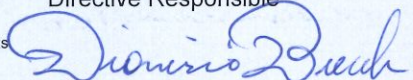
Issue	Description	Date
0	First emission, replacement of the the EC-TYPE EXAMINATION CERTIFICATE n. EUM1 11 ATEX 0364 X and its supplements n. 1 and 2.	06-09-2017
1	Addition of the new series (DNA-Ex and DNB-Ex), change name from "ALPHA-EX" to "BIC PRO-EX"	30-03-2018
2	<ul style="list-style-type: none"> • The series GM-Ex has been renamed GX-Ex, the models having rated power 1.5kW (single phase and three phase) and 2.2kW (three phase) have been included in this series. • The sealing ring included in the cable gland changed material and dimensions related to the cable diameter. • The conformity to the standard EN IEC 60079-0:2018 has been verified. 	25-05-2021
3	The certificate has been reissued following verification of the updated user manual and marking label	25-11-2021



PRD N° 119B
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CP-ATEX-MOD-26-00

Dionisio Bucchieri
Directive Responsible



Page 6 of 6
25-11-2021

End of Certificate