



## IECEx Certificate of Conformity



Prot: B4020001

### Annex to certificate:

**IECEx CES 10.0009X Issue No.1 of 2014-07-15**

### Applicant:

**Zenit Italia S.r.l.**

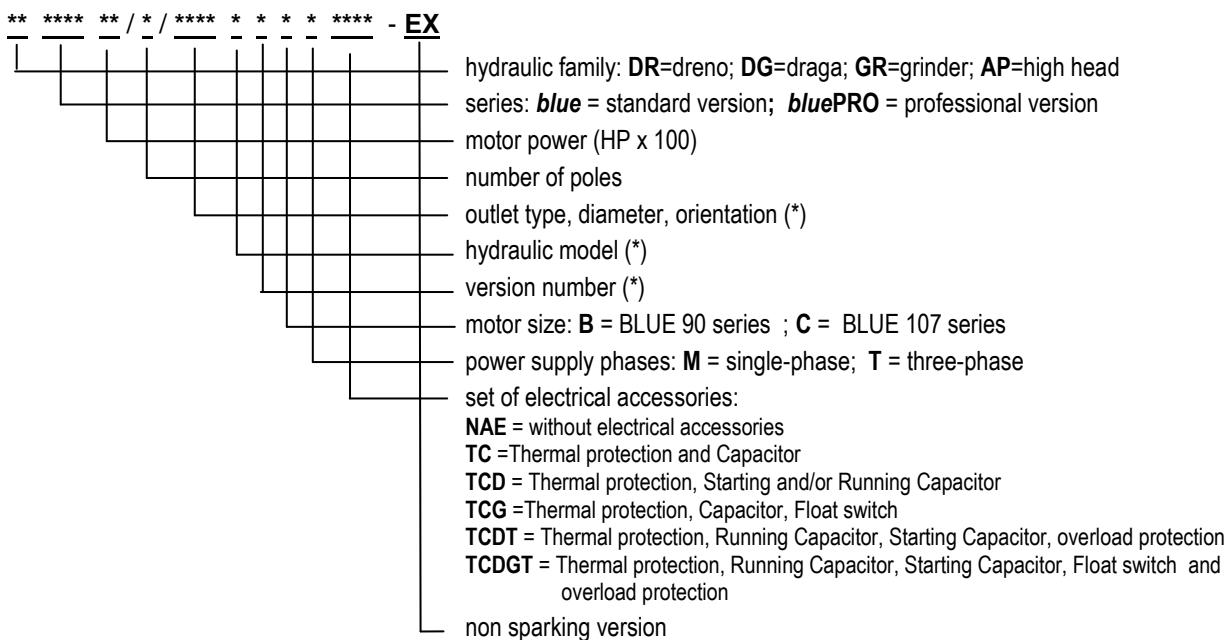
**Via dell'Industria, 11 – 41018 San Cesario sul Panaro (MO) - Italy**

### Electrical Apparatus:

**Submersible pumps motors series BLUE 90 and BLUE 107**

### Identification of equipment

The submersible pumps motors series BLUE 90 and BLUE 107 are identified by a code as follows:



(\*) codes irrelevant as regard the type of protection - for details see manufacturer's documents.

The pumps series BLUE 90 and BLUE 107 can be manufactured by Zenit in Italy or Zenit in China.

### Electrical characteristics

#### BLUE 90 STANDARD and PROFESSIONAL series (stator Ø = 90 mm)

Pump type	DR/DG BLUE DR/DG BLUEPRO 40/2	DR/DG BLUE DR/DG BLUEPRO 50/2	DR/DG BLUE DR/DG BLUEPRO 75/2	DR/DG BLUE DR/DG BLUEPRO 100/2
Rated power [kW]	0.28	0.37	0.55	0.74
N° of phases	1	1	3	1
Connection	-	-	Y	-
Rated voltage [V]	230	230	400	230
Current absorbed [A]	2.3	2.8	1.15	4.1
Capacitor (50/60 Hz)[μF]	8/10	8/10	14/16	-
Rated frequency [Hz]			50/60	
rpm (50/60 Hz)			2900/3400	



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**CESI**

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**Applicant:**

**Zenit Italia S.r.l.**

**Via dell'Industria, 11 – 41018 San Cesario sul Panaro (MO) - Italy**

**Electrical Apparatus:**

**Submersible pumps motors series BLUE 90 and BLUE 107**

### Electrical characteristics (follows)

#### BLUE 107 STANDARD and PROFESSIONAL series (stator Ø = 107 mm)

Pump type	GR/AP BLUEPRO 100/2		DR/DG BLUEPRO GR*/AP BLUEPRO 150/2		DR/DG BLUEPRO GR*/AP BLUEPRO 200/2	
Rated power [kW]	0.74		1.1		1.5	
N° of phases	1	3	1	3	1	3
Connection	-	Y	-	Y	-	Y
Rated voltage [V]	230	400	230	400	230	400
Current absorbed [A]	5.5	2.7	7.5	3.2	10	4.3
Capacitor (50/60 Hz)[µF]	25/40	-	30/40	-	30/40	-
Rated frequency [Hz]	50/60					
Rpm (50/60 Hz)	2900/3400					

Motors could be designed also with different voltages ( $\leq 400V$ ) maintaining the same current density in the winding and the same induction in the magnetic core. The rated power, losses, temperatures and insulation class have to remain unchanged.

The motor-pumps with type of protection Ex nA nC IIC T3 Gc are equipped with encapsulated thermal protection devices installed within the stator winding. These protection devices do not work during the standard expected operation of the pump but they interrupt the power supply only in conditions of overheating of the motor when an abnormal operation occurs. The temperature class T3 assigned to the equipment is not result from the operating of the thermal protection devices.

The motor-pump can also be equipped with a "nC" float switch that controls the operation of the motor.

\* GR BLUEPRO single phase pump version has an 80 µF external starting capacitor which works in parallel to the standard inner capacitor. Positioning and connection of the starting capacitor is provided by the user and must be performed in a safe area according manufacturer's instructions.