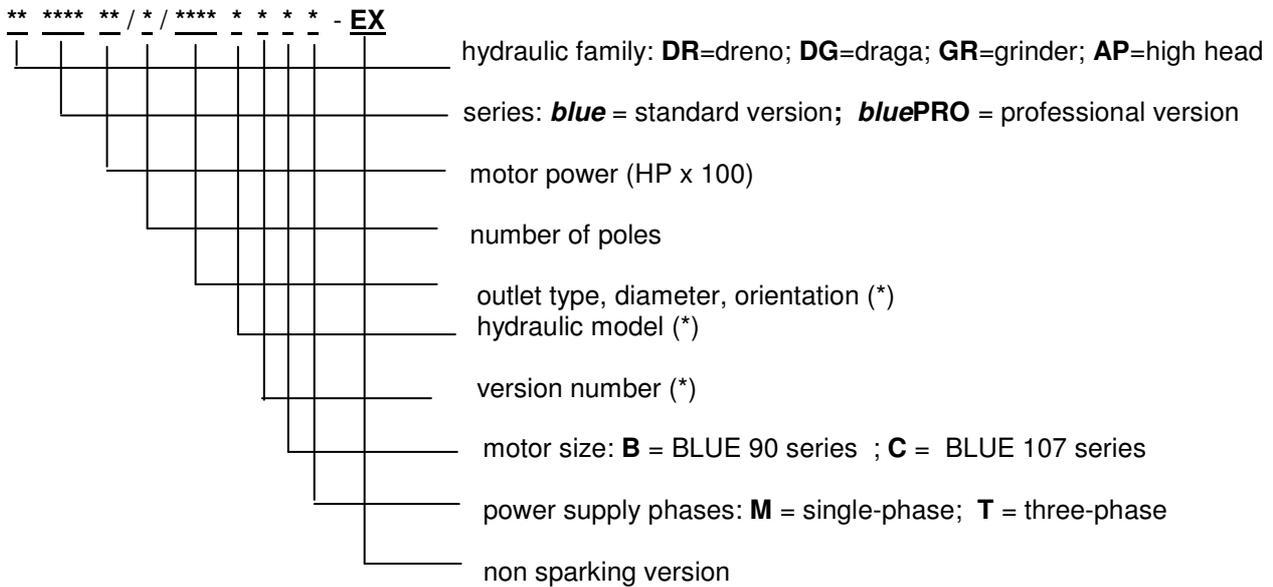


Prot: B0022082

Annex to certificate: IECEx CES 10.0009X Issue No.0 of 2010-07-30
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

Description 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 are manufactured by Zenit in China.
 The pumps series BLUE 107 are manufactured by Zenit in Italy.

Electrical characteristics

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

Pump type	DR/DG BLUE	DR/DG BLUE		DR/DG BLUE		DR/DG BLUE	
	DR/DG BLUEPRO						
	40/2	50/2	50/2	75/2	75/2	100/2	100/2
Rated power [kW]	0.28	0.37	0.37	0.55	0.55	0.74	0.74
N° of phases	1	1	3	1	3	1	3
Connection	-	-	Y	-	Y	-	Y
Rated voltage [V]	230	230	400	230	400	230	400
Current absorbed [A]	2.3	2.8	1.15	4.1	1.45	5.6	2.15
Capacitor (50/60 Hz)[µF]	8/10	8/10	-	14/16	-	20	-
Rated frequency [Hz]	50/60						
rpm (50/60 Hz)	2900/3400						



IECEx Certificate of Conformity



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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 magnetic induction in the lamination. The rated power, losses, temperatures and insulation class have to remain unchanged.

The pumps with type of protection Ex nA nC IIC T3 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 pump when an abnormal operation occurs. The temperature class T3 assigned to the equipment is not result from the operating of the thermal protection devices.

* 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.