

# 5" FROG SERIES



**PM** Technology

**50Hz**



## 5" FROG SERIES CHARACTERISTICS

**CONNECTOR:** it assures the possibility of removing the float switch by only fitting a proper plug, and vice-versa. (see below pictures)

**NOT ANYMORE** requested any technician's action to re-adapt the windings.

**ADVANTAGE** of reducing the pumps stock to half usual.

**EASY** replacing also the feeding cable, in case of any undesired damage.



2 POLES ASINCRONOUS MOTOR PROPERLY COOLED DOWN BY THE LIQUID MOVED BY THE PUMP.

IMPELLERS AND DIFFUSERS MADE OF TECHNOPYLMERS TO REACH THE MAXIMUM EFFICIENCY AND DO NEVER BE AFFECTED BY SAND.

SUCTION FILTER MADE OF STAINLESS STEEL, SCREWED ON TO THE PUMP OUTER SLEEVE

AISI 304 STAINLESS STEEL SHAFT AT THE WATER FLUSHING SIDE.

UPPER BRACKET/ OUTLET MADE OF DIE-CASTED STAINLESS STEEL AISI 304 - G 1 1/4"

CAPACITOR CLASS B (LONG LIFE FULFILMENT), PERMANENTLY ON (SINGLEPHASE VERSIONS).

MOTOR CASING AND OUTER SLEEVE MADE OF STAINLESS STEEL AISI 304 L.

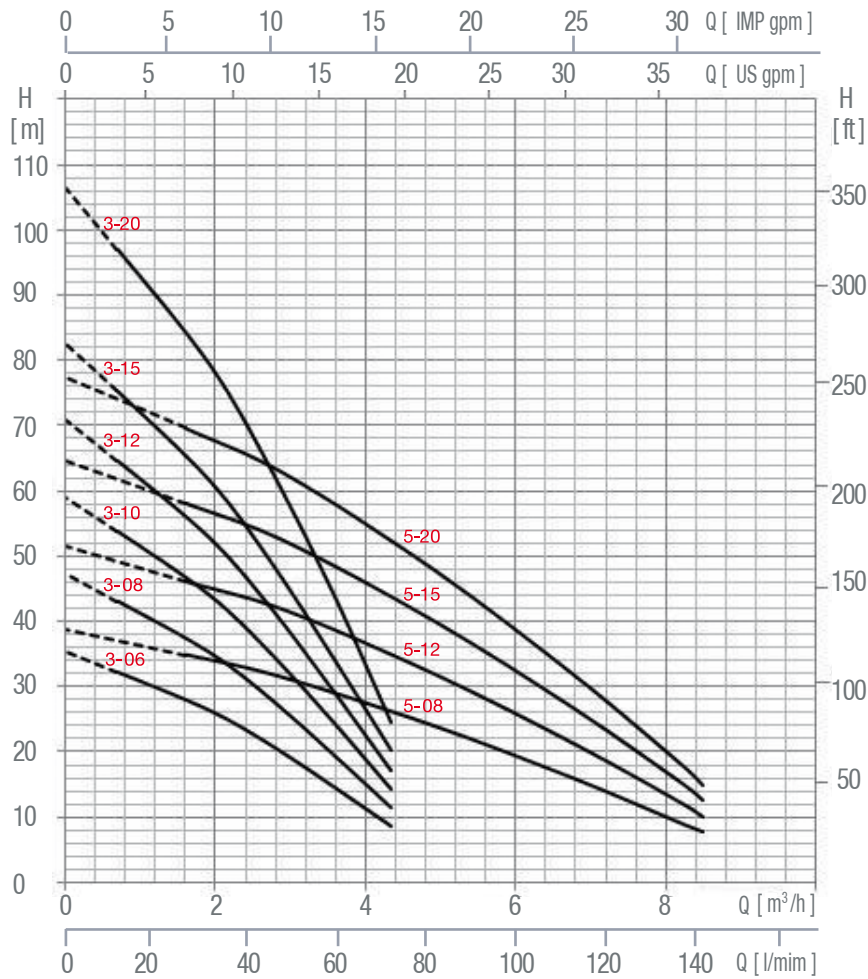
BEARINGS BRACKETS MADE OF DIE-CASTED ALUMINUM

DOUBLE MECHANICAL SEAL SEPARATE BY AN OIL CHAMBER TO GRANT ITS LUBRICATION AND PREVENT FROM DRY RUNNING.

- APPLICATIONS**
- PUMPING WATER FROM TANKS, RAIN WATER COLLECTING TANKS, RIVERS, 6" WELLS OR LARGER.
  - INDUSTRY AND DOMESTIC PRESSURE SYSTEMS.
  - IRRIGATION AND GARDENING.



# PERFORMANCE CURVES at 50 HZ



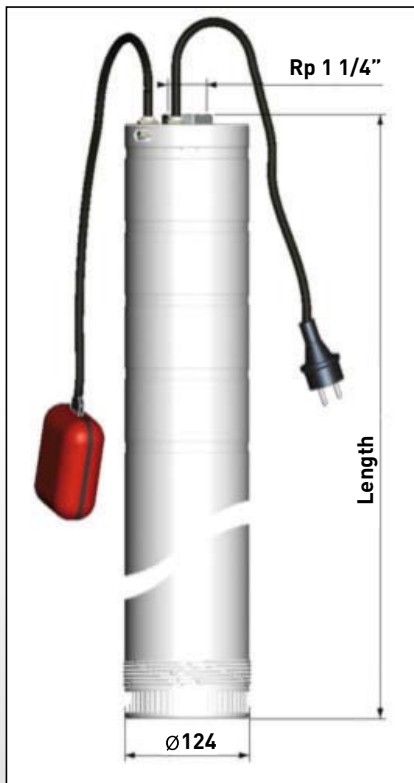
**HYDRAULIC PERFORMANCE TABLE**

Model		P <sub>2</sub>		Q (Flow Rate)								
Single - phase 230 V	Three - phase 400 V	[Hp]	[kW]	[l/min]	0	20	40	60	80	100	120	140
				[m³/h]	0	1,2	2,4	3,6	4,8	6	7,2	8,4
				H (Total Head) [m]								
FROG 3 - 06S	FROG 3 - 06T	0,6	0,45	35,5	30,0	23,5	14,4	5,3	—	—	—	—
FROG 3 - 08S	FROG 3 - 08T	0,8	0,6	47,3	40,0	31,7	19,5	6,9	—	—	—	—
FROG 3 - 10S	FROG 3 - 10T	1	0,75	59,1	50,1	39,0	24,2	8,2	—	—	—	—
FROG 3 - 12S	FROG 3 - 12T	1,2	0,9	70,9	59,7	47,0	29,4	9,4	—	—	—	—
FROG 3 - 15S	FROG 3 - 15T	1,5	1,1	82,7	70,0	55,7	34,0	10,9	—	—	—	—
FROG 3 - 20S	FROG 3 - 20T	2	1,5	106,3	90,0	69,8	43,4	13,3	—	—	—	—
FROG 5 - 08S	FROG 5 - 08T	0,8	0,6	38,7	35,9	32,9	29,2	24,6	19,1	13,9	8,2	—
FROG 5 - 12S	FROG 5 - 12T	1,2	0,9	51,8	47,8	43,9	38,8	32,8	26,0	18,9	11,2	—
FROG 5 - 15S	FROG 5 - 15T	1,5	1,1	64,5	59,8	54,8	49,3	40,9	32,2	23,3	13,8	—
FROG 5 - 20S	FROG 5 - 20T	2	1,5	77,4	71,8	65,7	58,0	49,0	38,9	28,0	16,3	—

**ELECTRICAL DATA**

Pump Type	P <sub>1</sub> [kW] (Max Absorbed Power)	I [A] (Max Absorbed Current)	Capacitor [μF] / 450 V	Pump Type	P <sub>1</sub> [kW] (Max Absorbed Power)	I [A] (Max Absorbed Current)
<b>Single - Phase - 230V</b>				<b>Three - Phase - 400 V</b>		
FROG 3 - 06S	0,81	3,7	16	FROG 3 - 06T	0,82	1,4
FROG 3 - 08S	1	4	25	FROG 3 - 08T	1,04	1,9
FROG 3 - 10S	1,22	5,7	25	FROG 3 - 10T	1,3	2,2
FROG 3 - 12S	1,4	6,5	35	FROG 3 - 12T	1,32	2,6
FROG 3 - 15S	1,65	7,6	35	FROG 3 - 15T	1,51	2,9
FROG 3 - 20S	2,15	9,8	40	FROG 3 - 20T	2,05	3,5
FROG 5 - 08S	1,1	4,2	25	FROG 5 - 08T	1,12	2,1
FROG 5 - 12S	1,32	6,4	35	FROG 5 - 12T	1,29	2,5
FROG 5 - 15S	1,7	8	35	FROG 5 - 15T	1,64	3
FROG 5 - 20S	1,95	9,15	40	FROG 5 - 20T	1,92	3,4

## TECHNICAL and WORKING SPECIFICATIONS



Model		Dimension	Weight	Cable Type	Cable Length [m]
Single-Phase 230 V	Three-phase 400 V	Length [mm]	[kg]		
FROG 3 - 06S	FROG 3 - 06T	439	14	H07RN-F	10
FROG 3 - 08S	FROG 3 - 08T	495	15,5		
FROG 3 - 10S	FROG 3 - 10T	521	16,5		
FROG 3 - 12S	FROG 3 - 12T	590	19		
FROG 3 - 15S	FROG 3 - 15T	616	20		
FROG 3 - 20S	FROG 3 - 20T	698	23,5		
FROG 5 - 08S	FROG 5 - 08T	469	16		
FROG 5 - 12S	FROG 5 - 12T	515	17,5		
FROG 5 - 15S	FROG 5 - 15T	541	18,5		
FROG 5 - 20S	FROG 5 - 20T	620	20,5		

- Single Phase versions have Capacitor on board and Automatic Overload motor protector.
- The Single Phase models 3-20S and 5-20S and all Three Phase versions do NOT have any overload protection.

Available under request:

- versions with 20m or 40m cable;
- versions with special cable approved KTW, WRAS, ACS;
- Versions with or without Float switch.

<b>PROTECTION CLASS</b>	<b>IP 68</b>
<b>CLASS OF INSULATION</b>	<b>F</b>
<b>FEEDING VOLTAGE TOLERANCE</b>	<b>±10%</b>
<b>ON / OFF per HOUR MAX.</b>	<b>40</b>
<b>PUMPED LIQUID TEMPERATURES LIMITS</b>	<b>0°C - 40°C</b>
<b>SAND LIMIT TOLERATED ON PUMPED LIQUID</b>	<b>50 g/m<sup>3</sup></b>

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EDIT. : FR/01/AA/2011/UK