

6GF HEAVY DUTY

6" SUBMERSIBLE MOTORS - 60 Hz



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TECHNICAL DATA

Maximum operating depth: 984 ft (300 m)

Standard flanges: NEMA 6"

Maximum number of starts per hour: 25/h

Motor protection class: IP 68

Motor insulation class: F

Cooling flow speed: min. 0.1 ft/s (0.3 m/s) at 95°F (35°C)

Max Thrust load: 11,240 lbf (50 kN)

Three phase power input: 3x400V 50 Hz / 3x460V 60 Hz

Power input tolerance: +6% / -10%

Power cable: 30 & 40Hp 13.1 ft (4 m)

50 & 60Hp 19.7 ft (6m)

Possible type of installation: vertical

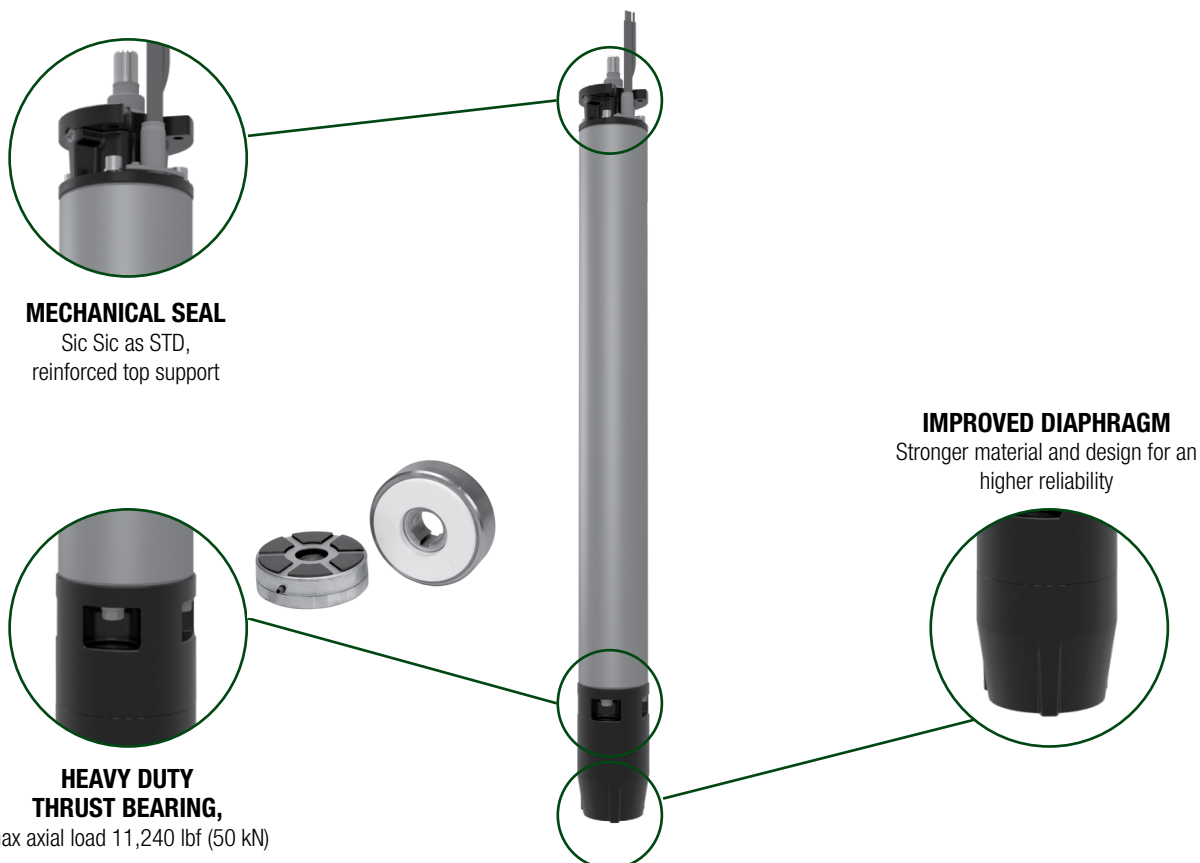
Special versions on request: it is available with additional PT100 or PTC temperature sensor. Voltage and power cables of different length.

Cable certifications: ACS, WRAS and KTW certified cable

6" canned submersible motor made in AISI 304 and cathaphoresis treated cast iron. Resin filled stator. Cooling and lubrication are guaranteed by a mixture of water and glycol. 6GF heavy duty motors are design for very deep borehole installation.

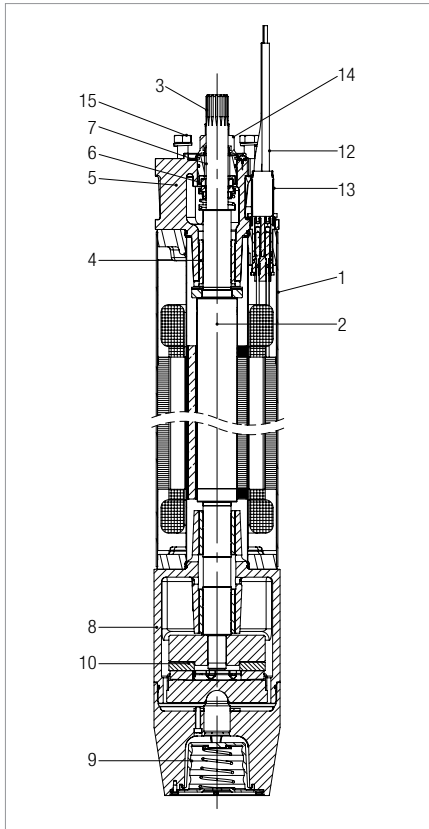
CONSTRUCTION FEATURES OF THE MOTOR

Two pole asynchronous motor in AISI 304 stainless steel and cathaphoresis treated cast iron for parts in contact with water. Cooling and lubrication of the thrust unit and bushings guaranteed by a mixture of water and glycol. Mitchell type self-centering thrust unit with 11,240 lbf (50kN) axial load. The stator is filled with resin with high heat dissipation capacity. Removable cable connector. ACS, WRAS and KTW certified cable. Motor suitable for use with variable frequency drive (30 Hz - 60 Hz). The protection must be guaranteed by the user. Available with direct or star-delta start. It is available with additional PT100 or PTC temperature sensor.



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6" SUBMERSIBLE MOTORS



MATERIALS

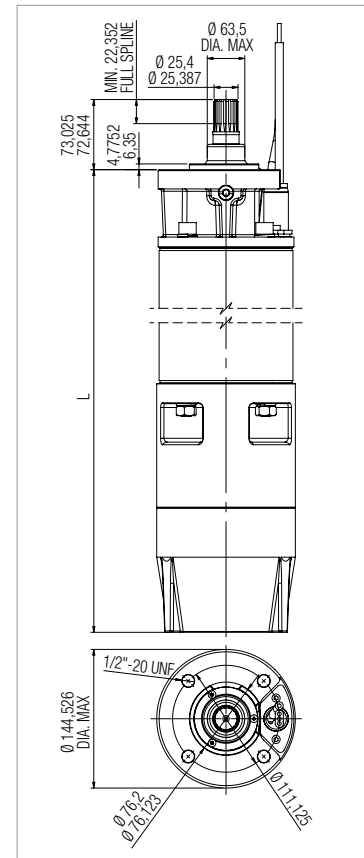
N°	PARTS	MATERIALS
1	EXTERNAL SLEEVE	STAINLESS STEEL EN 1.4307 - AISI 304L
2	SHAFT	STEEL ASTM A 105
3	SHAFT END	STAINLESS STEEL EN 1.4404 - AISI 316L
4	BUSHINGS	GRAPHITE
5	UPPER BRACKET	CAST IRON EN 0.6020 + CATAPHORESIS COATING
6	MECHANICAL SEAL	SIC - SIC
7	GASKET	NBR
8	LOWER BRACKETS	CAST IRON EN 0.6025 + CATAPHORESIS COATING
9	DIAPHRAGM	FKM
10	THRUST BEARING	CERAMIC - GRAPHITE
11	VALVE	BRASS CW614N
12	CABLE EU	FLAT - 07XBH2-F
	CABLE US	RHW-2 OR RHW OR RHH 600V
13	CONNECTING PLUG	STAINLESS STEEL EN 1.4301 - AISI 304
14	SAND GUARD	NBR 70
15	BOLTS & SCREWS	STEEL A2-70 - AISI 304
16	COOLING LIQUID	WATER + GLYCOL

DIMENSIONS

MODEL	LENGTH inch (mm)	MOTOR DIAMETER Inch (mm)	AXIAL THRUST lbf (Nm)	WEIGHT Lbs	PACKING DIMENSIONS Inch (mm)		
					L	B	H
6GF - 22 KW - HD	40" (1,016)	5.67 (144)	11,240 (50000)	240 (109)	63 (1600)	11 (280)	16 (406)
6GF - 30 KW - HD	45" (1,143)	5.67 (144)	11,240 (50000)	262 (119)	63 (1600)	11 (280)	16 (406)
6GF - 37 KW - HD	50" (1,270)	5.67 (144)	11,240 (50000)	291 (132)	63 (1600)	11 (280)	16 (406)
6GF - 45 KW - HD	57" (1,447)	5.67 (144)	11,240 (50000)	331 (150)	68 (1727)	11 (280)	16 (406)

ELECTRICAL DATA

MODEL	P2		VOLTAGE 60 Hz	P1 (W)	SF	IN (A)	I SF	Is/In	rpm	MOTOR EFFICIENCY η (Eff.) [%] at % load			POWER FACTOR $\cos \phi$ (Pf.) at % load			CABLE	
	(HP)	KW								50	75	100	50	75	100	Ø AWG	LC ft (m)
6GF - 22 KW - HD	30	22	3x460V~	26500	1.15	44.7	49.8	5.8	3480	79	82	83	0.61	0.70	0.75	AWG10	13.1 (4)
6GF - 30 KW - HD	40	30	3x460V~	35500	1.15	54	62	6.3	3480	80	83	84	0.69	0.79	0.83	AWG8	13.1 (4)
6GF - 37 KW - HD	50	37	3x460V~	45000	1.15	69	77	6.1	3480	80	82	83	0.66	0.76	0.82	AWG8	19.7 (6)
6GF - 45 KW - HD	60	45	3x460V~	55000	1.15	82	92	6.5	3450	79	83	84	0.67	0.77	0.83	AWG8	19.7 (6)



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On-line product selection



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