

# 6GF

## SUBMERSIBLE MOTOR 6"



6" Asynchronous two-poles submersible motor, made in AISI 304 stainless steel and cast iron with paint coating for parts in contact with water. Cooling and lubrication of the thrust bearing assembly and carbon bushes is provided by a mixture of water and glycol. Squirrel-cage rotor mounted on Kingsbury self-centring thrust bearing. Stator housed in an airtight stainless steel casing (canned-type). Removable cable connector to allow fast and easy maintenance. The cable is certified ACS, WRAS and KTW. Motor suitable for use with variable frequency drive (30 Hz-50/60 Hz). The motor is available in three-phase version with DOL or STAR-DELTA starting type. Overload protection must be provided by user. The motor can be equipped also with a PT100 temperature sensor.

- Flange** NEMA 6"
- Insulation class** F
- Degree of protection** IP68
- Cooling flow** 1.0 ft/sec @ 95 °F
- Voltage tolerance** + 6% / -10%
- Max starts** 25/h
- Max operating depth** 984 ft
- Horizontal operation** 5.5 HP - 60 HP



ACCESSORIES  
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### TECHNICAL DATA - SINGLE PHASE MOTORS

MODEL	3 WIRE	V [V]	P2		SF	In [A]	In (SF) [A]	Is/In	P1 [W]	N [min <sup>-1</sup> ]	Cos φ	η %	C [μF]		Ø [AWG]	LC [ft]
	CODE		[HP]	[kW]									Start	Run		
6GF - 7.5 HP	60187218	230	7.5	5.5	1.15	33	37	15	7520	3490	0.72	74	486-584	45	4x10	13
6GF - 10 HP	60187219	230	10	7.5	1.15	43	49	20	9800	3490	0.76	77	616-740	70	4x10	13
6GF - 15 HP	60187220	230	15	11	1.15	63	74	30	14350	3490	0.77	76	701-841	135	4x8	13

### TECHNICAL DATA - THREE PHASE MOTORS

MODEL	3 WIRE	V [V]	P2		SF	In [A]	In (SF) [A]	Is/In	P1 [W]	N [min <sup>-1</sup> ]	Cos φ	η %	Start *	CABLE	
	CODE		[HP]	[kW]										Ø [AWG]	LC [ft]
6GF - HP 5.5	60181824	230	5.5	4	1.15	18.5	20	5.1	5700	3450	0.77	70	Δ	4x10	13
	60181833	460			1.15	8.6	9.5	5.5	5700	3470	0.83	70	Y	4x10	13
	TBD	575			1.15	6.9	7.6	5.5	5700	3470	0.83	70	Y	4x10	13
6GF - HP 7.5	60181825	230	7.5	5.5	1.15	24	26.6	5	7400	3480	0.77	74	Δ	4x10	13
	60181834	460			1.15	12	13.3	5	7400	3480	0.77	74	Y	4x10	13
	TBD	575			1.15	9.6	10.6	5.0	7400	3470	0.77	74	Y	4x10	13
6GF - HP 10	60181826	230	10	7.5	1.15	34	37	4.8	9900	3465	0.73	76	Δ	4x10	13
	60181835	460			1.15	15	16.5	5.5	9900	3465	0.83	76	Y	4x10	13
	TBD	575			1.15	12.0	13.2	5.5	9900	3465	0.83	76	Y	4x10	13
6GF - HP 15	60181828	230	15	11	1.15	50	54	4.4	13400	3495	0.67	82	Δ	4x10	13
	60181837	460			1.15	21	23.3	5.2	13400	3495	0.8	82	Y	4x10	13
	TBD	575			1.15	16.8	18.6	5.2	13400	3480	0.80	82	Y	4x10	13



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MODEL	3 WIRE	V [V]	P2		SF	In [A]	In (SF) [A]	Is/In	P1 [W]	N [min <sup>-1</sup> ]	Cos φ	η %	Start *	CABLE	
	CODE		[HP]	[kW]										∅ [AWG]	LC [ft]
6GF - HP 20	60181830	230	20	15	1.15	63	68	4.8	18200	3475	0.73	82	Δ	4x10	13
	60181839	460			1.15	27.6	30.8	5.4	18200	3475	0.83	82	Y	4x10	13
	TBD	575			1.15	22.1	24.6	5.4	18200	3475	0.83	82	Y	4x10	13
6GF - HP 25	60181831	230	25	18.5	1.15	73.4	80	5.7	22200	3475	0.76	83	Δ	4x8	13
	60181840	460			1.15	36.7	40	5.7	22200	3475	0.76	83	Y	4x8	13
	TBD	575			1.15	29.3	33.2	5.7	22200	3475	0.76	83	Y	4x8	13
6GF - HP 30	60181832	230	30	22	1.15	95	105	5.5	26500	3480	0.7	83	Δ	4x8	13
	60181841	460			1.15	44.7	49.8	5.8	26500	3480	0.74	83	Y	4x8	13
	TBD	575			1.15	35.7	39.8	5.8	26500	3480	0.75	83	Y	4x8	13
6GF - HP 40	60181842	460	40	30	1.15	54	62	6.3	35700	3480	0.83	84	Y	4x8	13
	TBD	575			1.15	43.2	49.6	6.3	35700	3480	0.83	84	Y	4x8	13
6GF - HP 50	60181843	460	50	37	1.15	69	77	6.1	44800	3480	0.82	83	Y	4x8	13
	TBD	575			1.15	55.0	62.0	6.2	44800	3480	0.82	83	Y	4x8	13
6GF - HP 60	60181844	460	60	45	1.15	82	92	6.5	53500	3450	0.83	84	Y	4x8	13
	TBD	575			1.15	65.6	73.6	6.5	53500	3450	0.83	84	Y	4x8	13

\* Star-delta version 230/380 V and 380/660 V available.

- P2: Rated output
- V: Rated voltage
- SF: Service factor
- In: Rated current
- In (SF): Service factor current
- Is/In: Locked rotor current/Rated current
- Cs/Cn: Locked rotor Torque/Rated Torque
- P1: Power consumption
- N: R.P.M
- Cos φ: Power factor
- η: Efficiency
- C: Capacitor
- ∅: Cable section
- LC: Cable length

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### DIMENSIONS AND WEIGHTS - SINGLE PHASE MOTORS

MODEL	L LENGTH inch	WEIGHT lbs	AXIAL THRUST lbf	Q.TY x PALLET
6GF - 7.5 HP - 5.5kW	28.74	154.5	3600	N/A
6GF - 10 HP - 7.5kW	30.944	168	3600	N/A
6GF - 15 HP - 11kW	33.897	185.2	3600	N/A

### DIMENSIONS AND WEIGHTS - THREE PHASE MOTORS

MODEL	L LENGTH inch	WEIGHT lbs	AXIAL THRUST lbf	Q.TY x PALLET
6GF - HP 5.5 - 4kW	23.661	123.3	3600	N/A
6GF - HP 7.5 - 5.5kW	24.843	130.7	3600	N/A
6GF - HP 10 - 7.5kW	26.023	137.4	3600	N/A
6GF - HP 15 - 11kW	28.779	162.1	3600	N/A
6GF - HP 20 - 15kW	30.944	174.8	3600	N/A
6GF - HP 25 - 18.5kW	33.897	192.1	3600	N/A
6GF - HP 30 - 22kW	36.258	205.3	3600	N/A
6GF - HP 40 - 30kW	41.377	236.6	6000	N/A
6GF - HP 50 - 37kW	46.496	274.5	6000	N/A
6GF - HP 60 - 45kW	53.582	311.5	6000	N/A

POS.	inch	POS.	inch
A	1.535	E	0.236
B	0.984	F	5.551
C	0.984	G	4.370
D	2.867	H	3.000

KIT CABLE CONNECTOR USA VERSION	DESCRIPTION	CODE
	KIT CABLE CONNECTOR - FT 13.12	SP00003221
	KIT CABLE CONNECTOR - FT 13.12	SP00003222

### ON REQUEST

- CABLES WITH DIFFERENT LENGTH
- DIFFERENT SUPPLY VOLTAGES
- SINGLE PHASE VERSION (UP TO 15 HP)
- PT100 TEMPERATURE SENSOR
- PTC TEMPERATURE SENSOR (ONLY DOL VERSION)

