

SUBMERSIBLE MOTOR

5" REWINDABLE MOTORS

TECHNICAL SPECIFICATIONS:

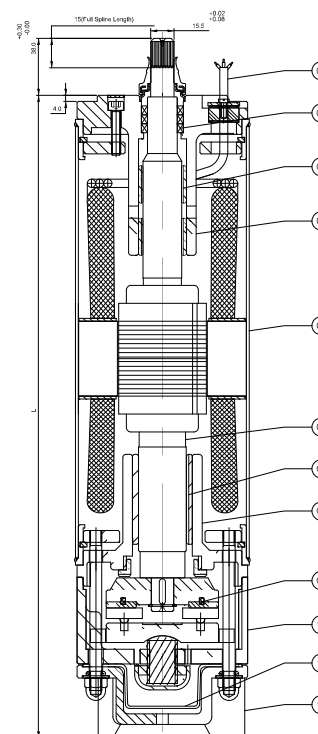
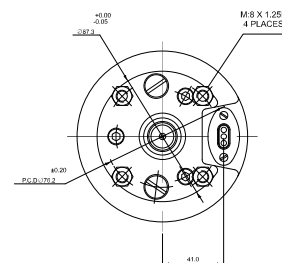
- 5" Water Lubricated Submersible Motors are rewindable.
- Coupling dimensions as per NEMA standard.
- Winding wire : Polywrapped / PVC winding available on specific demand
- Degree of protection : Ip68.
- Max water temperature : 35°C.
- Starts per hour : 20 time (Max.).
- Allowable voltage variation : +6% - 10%.
- Motor shaft of Stainless steel.
- Stator shell of Stainless steel.
- Max depth immersion : 350 M.
- Mounting : vertical / horizontal.
- Motor Cable length : 3 Meter / 3 Core with separate earth cable & 4 Core.
- Cooling Flow : V:0.2 M/S.
- Coolant : Clear Water.

VERSIONS:

Three Phase : 1.1 kw to 9.3 kw / 380-415 Volt / 50 Hz
2.2 kw to 9.3 kw / 380-460 Volt / 60 Hz.

Motor With Other Voltage and frequency ratings are available on specific Demand.

5" REWINDABLE MOTOR



SR.NO.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	EPR
02	OIL SEAL	N.B.R
03	BEARING BUSH	L.T.B-4 2%Ni
04	UPPER HOUSING	CAST IRON (F.G 200)
05	MOTOR SHELL	STAINLESS STEEL
06	ROTOR SHAFT	SS 431
07	BEARING BUSH	L.T.B-4 (2%Ni)
08	LOWER HOUSING	CAST IRON (FG-200)
09	THRUST BEARING SET	CARBON / S.S 420
10	LOWER PART-2	CAST IRON (FG-200)
11	PRESSURE CUP	H.B.R
12	MOTOR BASE	CAST IRON (FG-200)
13	ALL HARDWARE	S.S.304

P _N		PW L[mm] C.I	Motor Weight [kg]	Motor Weight (incl.pkg)[kg]
[kw]	[HP] (T.P)			
1.10	1.50	520.00	21.9	23.9
1.50	2.00	545.00	23.0	25.0
2.20	3.00	565.00	23.9	25.9
2.94	4.00	565.00	23.9	25.9
4.00	5.50	630.00	26.7	28.7
5.50	7.50	695.00	29.5	31.5
7.50	10.00	815.00	34.6	36.6
9.30	12.50	880.00	37.3	39.3

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Technical Data of 5" Motors / 50 Hz

PN		Thrust F [N]	UN [V]	nN [min-1]	IN [A]	IA [A]	η (Eff.) [%] at % load			COS ϕ (PF) At % load			TN [Nm]	TA [Nm]
[H.P.]	[kW]						50	75	100	50	75	100		
1.50	1.10	4000	380	2860	3.20	15.0	68	71	71	0.62	0.70	0.71	3.69	9.22
			400	2870	3.30	15.7	67	71	72	0.60	0.67	0.72	3.67	9.35
			415	2870	3.40	16.3	65	70	72	0.55	0.65	0.72	3.67	9.60
2.00	1.50	4000	380	2860	4.10	19.5	70	72	73	0.60	0.70	0.78	4.91	11.80
			400	2865	4.20	20.2	66	72	73	0.55	0.66	0.77	4.90	11.85
			415	2870	4.30	20.6	66	70	72	0.52	0.62	0.75	4.89	11.93
3.00	2.20	15500	380	2865	6.00	21.0	68	69	72	0.66	0.70	0.70	7.36	13.25
			400	2870	6.15	21.8	67	68	71	0.65	0.70	0.69	7.34	13.60
			415	2875	6.25	22.5	66	67	70	0.64	0.69	0.68	7.33	13.90
4.00	3.00	15500	380	2860	9.00	31.5	70	70	72	0.65	0.70	0.72	9.83	17.70
			400	2875	9.20	32.8	69	70	72	0.64	0.69	0.70	9.78	18.00
			415	2875	9.30	33.6	69	68	71	0.64	0.69	0.69	9.78	18.40
5.50	4.00	15500	380	2870	10.20	35.7	70	70	72	0.68	0.70	0.73	13.47	24.90
			400	2875	10.40	37.0	69	70	71	0.66	0.69	0.71	13.44	25.00
			415	2875	10.60	37.4	69	68	71	0.65	0.70	0.71	13.44	25.54
7.50	5.50	15500	380	2875	13.40	46.9	71	72	73	0.70	0.71	0.75	18.33	34.80
			400	2880	13.20	46.9	70	69	72	0.69	0.70	0.75	18.30	35.90
			415	2885	13.10	47.2	70	70	72	0.69	0.70	0.74	18.27	36.50
10.0	7.50	15500	380	2880	18.10	63.4	70	72	74	0.72	0.74	0.75	24.40	46.40
			400	2885	17.50	63.9	70	73	75	0.71	0.72	0.75	24.36	46.77
			415	2885	17.50	64.0	69	70	73	0.70	0.72	0.74	24.36	47.80
12.5	9.30	15500	380	2880	20.50	73.0	72	72	74	0.74	0.74	0.75	30.50	57.90
			400	2885	20.40	74.5	71	73	75	0.72	0.72	0.75	30.45	58.50
			415	2885	20.20	74.7	70	71	73	0.70	0.71	0.74	30.45	59.40

- PN - Rated Output
- UN - Rated Voltage
- nN - RPM
- IN - Full Load Current
- IA - Starting Current
- η - Motor Efficiency
- $\cos\phi$ - Power Factor
- TN - Full Load Torque
- TA - Starting Torque
- F[N] - Axial Thrust Load

Exploded Drawing of 5" Motor

