

SUBMERSIBLE MOTOR

8" REWINDABLE MOTORS

TECHNICAL SPECIFICATIONS:

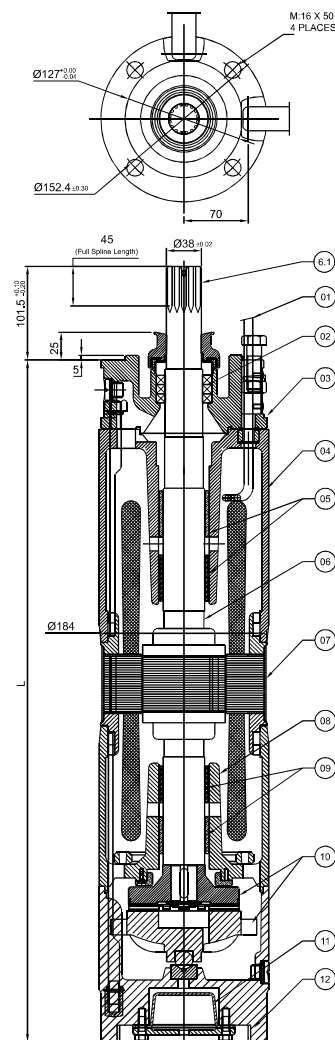
- 8" Water Lubricated Submersible Motors are rewindable.
- Coupling dimensions as per NEMA standard.
- Winding wire : Polywrapped / PVC winding available on specific demand
- Degree of protection : Ip68.
- Max water temperature : 35°C.
- Starts per hour : 20 time (Max).
- Allowable voltage variation : +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 : 22 kW To 55 kW / 380-415 Volt /50 Hz
30 kW To 55 kW/ 380-460 Volt /60 Hz.

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

8" REWINDABLE MOTOR



SR NO.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	EPR/P.V.C
02	OIL SEAL	N.B.R
03	ADAPTOR	CAST IRON(FG-200)
04	UPPER HOUSING	CAST IRON(FG-200)
05	BEARING BUSH	LTB-4 (2% Ni.) / M.S-N.B.R
06	ROTOR SHAFT	SS 431
07	MOTOR SHELL	SS 304
08	LOWER HOUSING	CAST IRON(FG-200)
09	BEARING BUSH	LTB-4 (2% Ni.) / M.S-N.B.R
10	THRUST BEARING SET	CARBON / S.S.420
11	PRESSURE CUP	N.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]		Cast Iron	Cast Iron
30.0	40.00	1250.00	121	137.4
37.0	50.00	1320.00	138	156.4
45.0	60.00	1320.00	165	183.4
55.0	75.00	1380.00	205	223

SUBMERSIBLE MOTOR

Technical Data of 8" Motors / 50 Hz

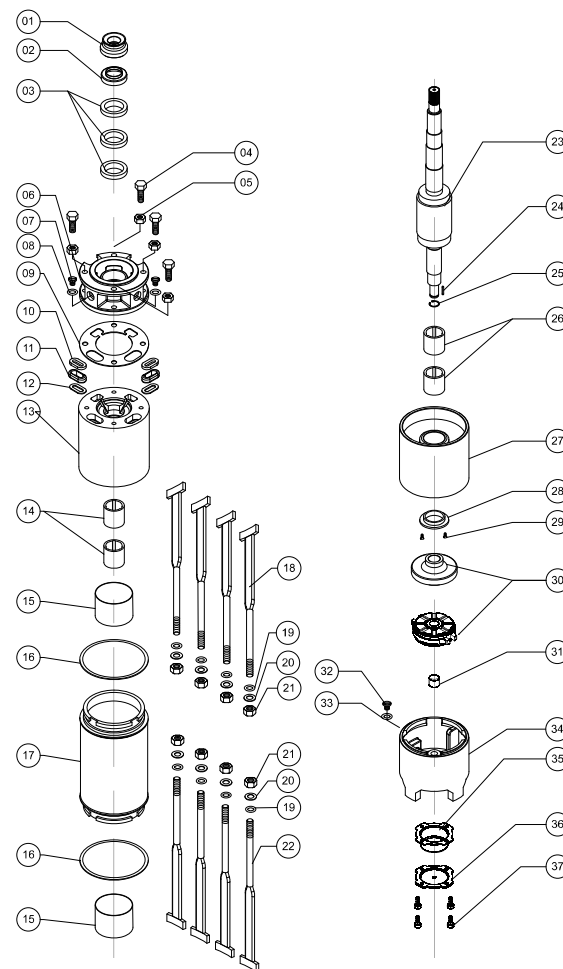
PN		Thrust Load [N]	UN [V]	nN [min ⁻¹]	IN [A]	IA [A]	η (Eff.) [%] at % load			cos ϕ (PF) at % load			TN [Nm]	TA [Nm]
[H.P.]	[kW]						50	75	100	50	75	100		
40.0	30	45000	380	2885	63.10	301	83.4	84.4	83.2	0.88	0.88	0.89	99.1	126
			400	2900	60.00	317	83.5	85	84.4	0.80	0.85	0.89	99.0	141
			415	2910	58.00	331	83.4	85.1	84.8	0.76	0.88	0.89	98.1	150
50.0	37	45000	380	2890	79.11	377	84.5	85.2	84.0	0.81	0.85	0.87	122	155
			400	2910	76.00	400	83.8	85.2	84.5	0.75	0.82	0.86	122	176
			415	2910	75.10	411	82.5	84.4	84.3	0.70	0.80	0.85	120	189
60.0	45	45000	380	2895	92.90	490	85.7	86.5	85.2	0.80	0.85	0.88	149	218
			400	2910	90.00	520	85.3	86.5	86.0	0.75	0.82	0.86	148	240
			415	2910	88.00	542	84.4	86.1	85.8	0.69	0.80	0.85	147	262
75.0	55	45000	380	2910	115.0	625	86.4	86.8	85.7	0.78	0.84	0.88	182	302
			400	2915	110.0	660	85.8	87.0	86.5	0.72	0.82	0.85	180	341
			415	2920	109.0	687	84.7	86.5	86.2	0.67	0.78	0.85	180	367

Technical Data of 8" Motors / 60 Hz

PN		Thrust Load [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		
40.0	30	45000	380	3500	73	393	82.3	84.6	84.6	0.81	0.86	0.88	99	142
			460	3495	60	325	81.5	83.5	83.4	0.82	0.86	0.89	99	131
50.0	37	45000	380	3510	91	513	83.2	85.1	85.4	0.76	0.82	0.85	121	178
			460	3490	75	407	83.8	85.4	84.8	0.77	0.85	0.87	122	163
60.0	45	45000	380	3510	110	660	83.5	85.7	85.8	0.73	0.81	0.85	149	241
			460	3505	90	523	85.0	86.5	86.3	0.77	0.84	0.87	149	220
75.0	55	45000	380	3520	137	841	84.3	86.5	86.5	0.72	0.81	0.84	182	320
			460	3515	108	658	85.7	87.1	86.8	0.77	0.84	0.88	181	288

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

Exploded Drawing of 8" Motor



No.	PARTS NAME
1	SAND GUARD (M.S INSERT)
2	UPPER CAP
3	OIL SEAL
4	HEX BOLT
5	HEX NUT
6	ADAPTOR
7	DRAIN PLUG
8	DRAIN PLUG 'O' RING
9	PAPER GASKET
10	GROMMET WASHER
11	GROMMET
12	GROMMET WASHER
13	UPPER HOUSING
14	BEARING BUSH (UPPER SIDE)
15	WINDING CAP
16	PAPER GASKET
17	STATOR BODY
18	T-BOLT (UPPER SIDE)
19	T-BOLT 'O' RING
20	T-BOLT WASHER
21	HEX NUT
22	T-BOLT (LOWER SIDE)
23	ROTOR
24	ROTOR KEY
25	ROTOR CIR CLIP
26	BEARING BUSH (LOWER SIDE)
27	LOWER HOUSING
28	FIBER C.T BEARING
29	SCREW
30	COUNTER BEARING SET
31	FIX ROCKER
32	DRAIN PLUG
33	DRAIN PLUG 'O' RING
34	MOTOR BASE
35	PRESSURE CUP
36	MOTOR BASE PLATE
37	HEX BOLT