SUBMERSIBLE MOTOR

8" REWINDABLE MOTORS

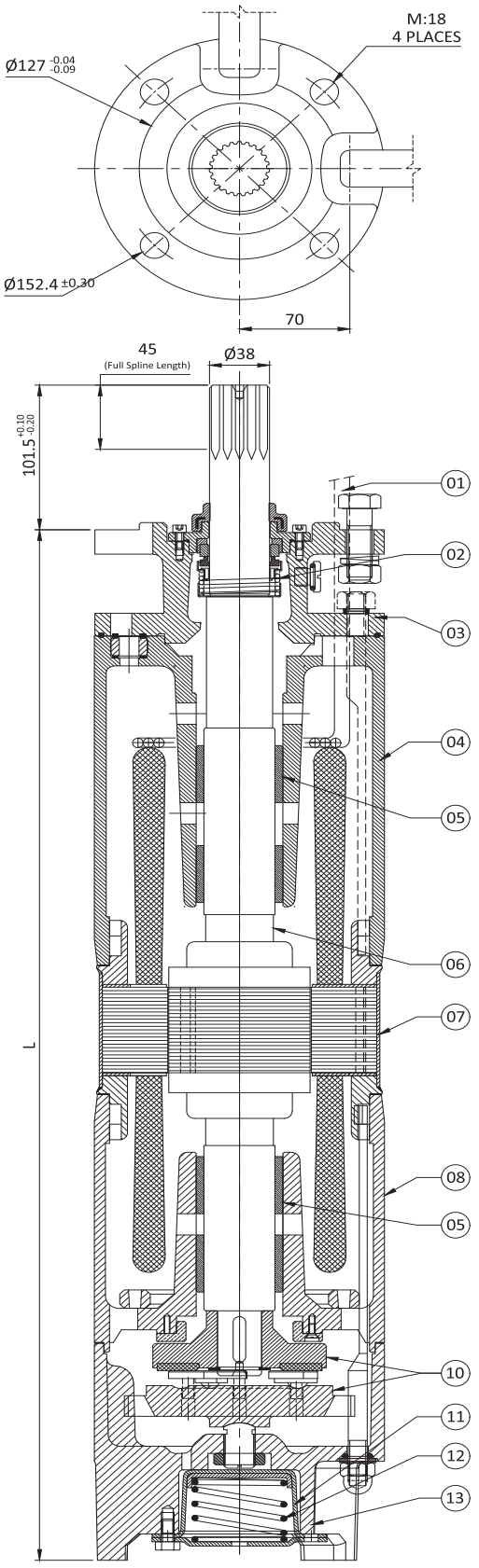
TECHNICAL SPECIFICATIONS:

- 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	MECH. SEAL	N.B.R
03	ADOPTER	CAST IRON (FG - 200)
04	UPPER HOUSING	CAST IRON (FG - 200)
05	BEARING BUSH	CARBON
06	ROTOR SHAFT	S.S. 420
07	MOTOR SHELL	S.S. 304
08	LOWER HOUSING	CAST IRON (FG-200)
09	THRUST BEARING SET	CARBON / S.S.420
10	PRESSURE CUP	EPDM
11	SPRING	S.S.304 (SPRING STEEL)
12	MOTOR BASE	CAST IRON (FG-200)
13	ALL HARDWARE	S.S. 304

50 Hz / 60Hz

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	1053.00	117	130
37.0	50.00	1233.00	171	190
45.0	60.00	1303.00	192	213
55.0	75.00	1398.00	220	245
75.0	100.00	1443.00	234	260

Technical Data of 8" Motors / 50 Hz

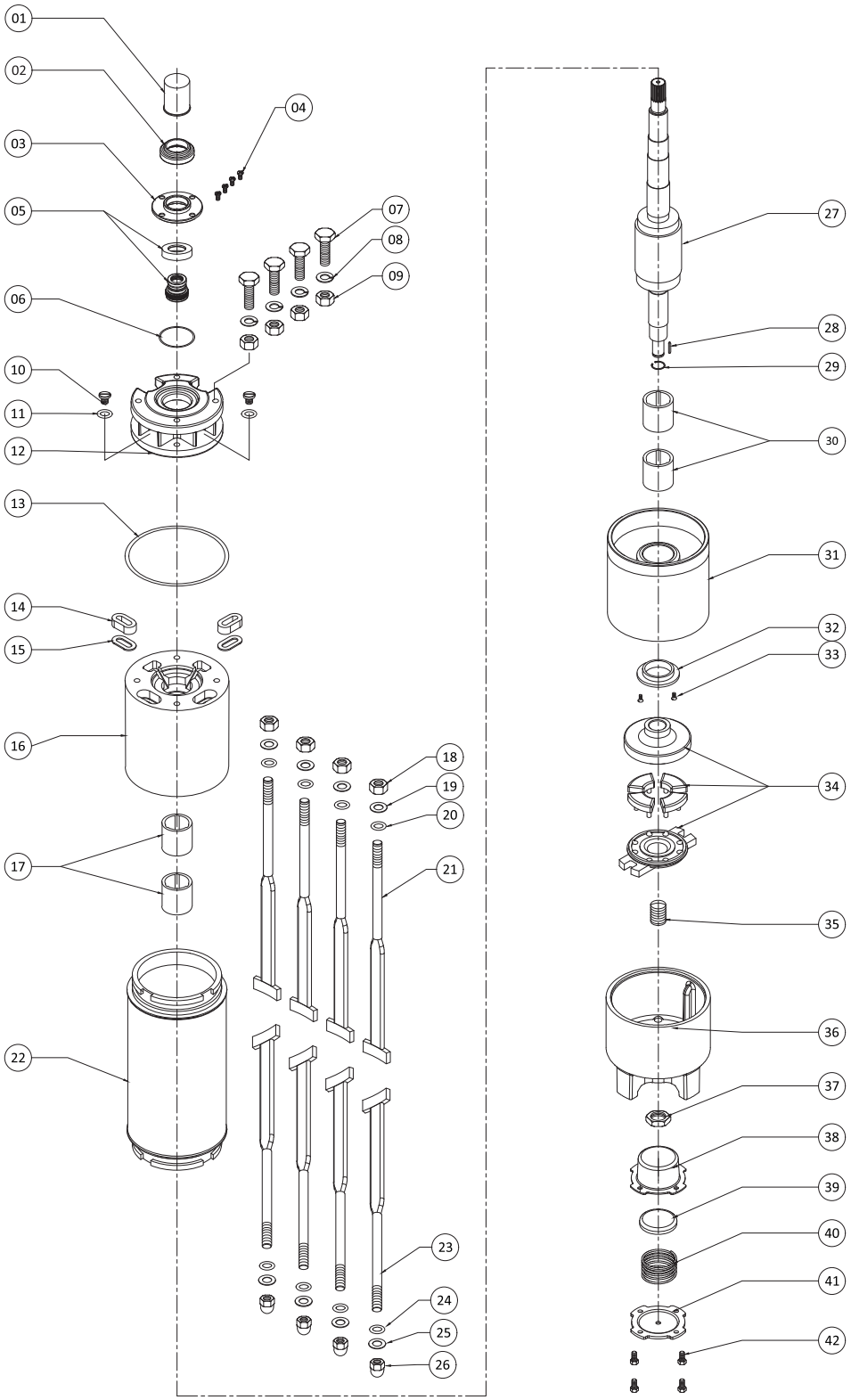
P_N		Thrust Load [N]	U_N [V]	n_N [min-1]	I_N [A]	I_A [A]	η (Eff.) [%] at % load			cos φ (PF) at % load			T_N [Nm]	T_A [Nm]
[H.P.]	[kW]						50	75	100	50	75	100		
40.0	30	45000	380	2885	63.10	301	83.4	84.4	83.2	0.88	0.88	0.89	99.1	126
			400	2900	60.00	317	83.5	85.0	84.4	0.80	0.85	0.89	99.0	141
			415	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
70.0	52	45000	380	2900	107.00	576	86.4	86.5	85.1	0.80	0.88	0.89	171	285
			400	2910	102.00	605	86.2	87.0	86.0	0.75	0.85	0.87	171	319
			415	2920	100.00	630	85.3	86.9	86.2	0.72	0.81	0.85	170	344
75.0	55	45000	380	2910	115.00	625	86.4	86.8	85.7	0.78	0.84	0.88	182	302
			400	2915	110.00	660	85.8	86.5	86.5	0.72	0.82	0.85	180	341
			415	2920	109.00	687	84.7	86.2	86.2	0.67	0.78	0.85	180	367
100.0	75	45000	380	2890	152.00	891	86.6	86.7	86.1	0.78	0.85	0.88	248	418
			400	2910	147.00	941	86.4	86.3	86.1	0.77	0.82	0.85	246	471
			415	2910	145.00	983	85.1	86.4	86.2	0.72	0.81	0.85	246	511

Technical Data of 8" Motors / 60 Hz

P_N		Thrust Load [N]	U_N [V]	n_N [min-1]	I_N [A]	I_A [A]	η (Eff.) [%] at % load			cos φ (PF) at % load			T_N [Nm]	T_A [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	86.5	0.77	0.84	0.88	181	288
100.0	75	45000	380	3515	175	1142	85.3	87.1	86.5	0.77	0.82	0.85	246	426
			460	3520	145	945	85.8	87.5	86.8	0.79	0.84	0.86	248	429

- P_N - Rated Output
- U_N - Rated Voltage
- n_N - RPM
- I_N - Full Load Current
- I_A - Starting Current
- η - Motor Efficiency
- cosφ - Power Factor
- T_N - Full Load Torque
- T_A - Starting Torque
- F[N] - Axial Thrust Load

Exploded Drawing of 8" Motor



No.	PARTS NAME
1	ROTOR CAP
2	SAND GUARD
3	UPPER PLATE
4	ALLEN BOLT
5	MECH.SEAL
6	UPPER PLATE O' RING
7	HEX BOLT
8	SPRING WASHER
9	HEX NUT
10	DRAIN PLUG
11	DRAIN PLUG 'O' RING
12	ADOPTER
13	ADOPTER 'O' RING
14	CABLE GROMMET
15	CABLE GROMMET WASHER
16	UPPER HOUSING
17	CARBON BUSH
18	HEX NUT (T - BOLT)
19	WASHER (T - BOLT)
20	O' RING (T-BOLT)
21	UPPER SIDE T-BOLT
22	STATOR BODY
23	LOWER SIDE T-BOLT
24	O' RING (T-BOLT)
25	WASHER (T-BOLT)
26	DOME NUT (T-BOLT)
27	ROTOR SHAFT
28	KEY
29	CIR CLIP
30	CARBON BUSH
31	LOWER HOUSING
32	THRUST PLATE
33	SCREW (COUNTER PLATE)
34	THRUST BEARING SET
35	ROCKER
36	ROCKER LOCK NUT
37	MOTOR BASE
38	PRESSURE CLIP
39	PVC.SPRING CAP
40	SPRING
41	MOTOR BASE PLATE
42	HEX BOLT (MOTOR BASE)