



SINCE 1935

VARUNA[®]
ELECTRIC

La-Gajjar Machineries Pvt. Ltd.

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SUBMERSIBLE MOTORS

50-60 HZ CATALOGUE

AN ISO 9001:2015 COMPANY, C E



SINCE 1935

VARUNA[®]
ELECTRIC



FOR OVER 85 YEARS, WE HAVE TAKEN WATER TO FARMS, HOMES AND FACTORIES ACROSS INDIA AND THE WORLD.

AN 85-YEAR LEGACY

What started with the production of a one-of-its-kind hand blower in 1935 by Shri Laljibhai Gajjar has today grown into one of India's most respectable pumps brand with an international presence with a manufacturing prowess and distribution networks across the world. As the creator of India's first oil-based submersible pumps in 1991 to introducing Stainless Steel Pumps in 2009 to integrated Solar Pumps in this decade, we continue to deliver well-engineered pumps that bring water where it is needed.

Strategic partnership with KOEL since 2017, one of the most admired Indian MNC.

OUR VISION

To be the preferred water solutions Company for the domestic and agricultural sector across the world by virtue of its vision, techno-pioneering spirit, reliable technology and a growth-focused, customer-centric approach.

OUR MISSION

To work relentlessly towards the Company's vision. To reach out to customers across sectors and geographic domains. To build prosperous partnerships across the world. To set new standards in pumping solutions and to respond efficiently to the world's water and energy challenges.

OUR VALUES

La Gajjar Machineries is driven by the spirit of innovation that makes a difference. We genuinely believe that we are more than a manufacturing company. We are a brand that is adding value to water, the lifeline of the world. This drives us to create reliable, innovative and sustainable solutions for the world.



PROVIDING WATER SOLUTIONS ACROSS INDIA AND 55 COUNTRIES OF THE WORLD FROM OUR 1 LAKH SQ.M. INTEGRATED INFRASTRUCTURE

BEST-IN-CLASS MANUFACTURING INFRASTRUCTURE

La Gajjar Machineries has an integrated manufacturing infrastructure with in-built R&D department, testing and warehousing in Ahmedabad, Gujarat.

- Spread across over 1,00,000 square meters (14 football fields)
- Five major manufacturing plants with ancillary units
 - Stainless Steel Pump Unit - Domestic Pump Unit - Agriculture Pump Unit
 - CMB Plant - Rotor Unit - LGM [Depot]
- Equipped with modern manufacturing and testing facilities
- Computer Aided Design
- Powered by over 2000 professional manpower

SETTING STANDARDS IN RESEARCH, QUALITY AND ENERGY- AN UNMATCHED EFFICIENCY .

R&D AND STANDARDS BEYOND COMPROMISE

La Gajjar Machineries we have a stringent quality control process and R&D to ensure that every product we create gives up to the highest expectation and every prescribed quality norm. The recognitions, certifications and awards at national and international forums bear an apt testimony to this fact.



World-class R&D Team



Government recognised Star rated Export House



Maximum Star Rated pumps approved by the Bureau of Energy Efficiency (BEE)



Winner of Global Quality Award



ISI certification



Product certified by ISO 9001, IS: 8034, IS: 9283, IS: 14220 & CE



CE Certification



RoHS Compliant



ISO 9001 accredited production facility

HARNESSING THE POWER OF SUN

Committed to contributing to energy efficiency, we have created Solar Pump for AC/DC Current. These Submersible Pumps are specially designed to work from solar panels without the need for electricity or batteries as they are driven by electronically commuted motors. The safety switches within the controller prevents them from drying. Solar Pumps are highly efficient and perform even in low-intensity sunlight.



HOLISTIC CONTRIBUTION TO THE NATION



Core active member of Indian Pump Manufacturers Association (IPMA)



One of India's most reliable OEMs



Major contributor to energy efficiency initiatives of the government - 13020 Submersibles supplied to EESL in just one year

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SUBMERSIBLE REWINDABLE MOTORS

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SUBMERSIBLE MOTOR

3" OIL LUBRICATED REWINDABLE MOTOR

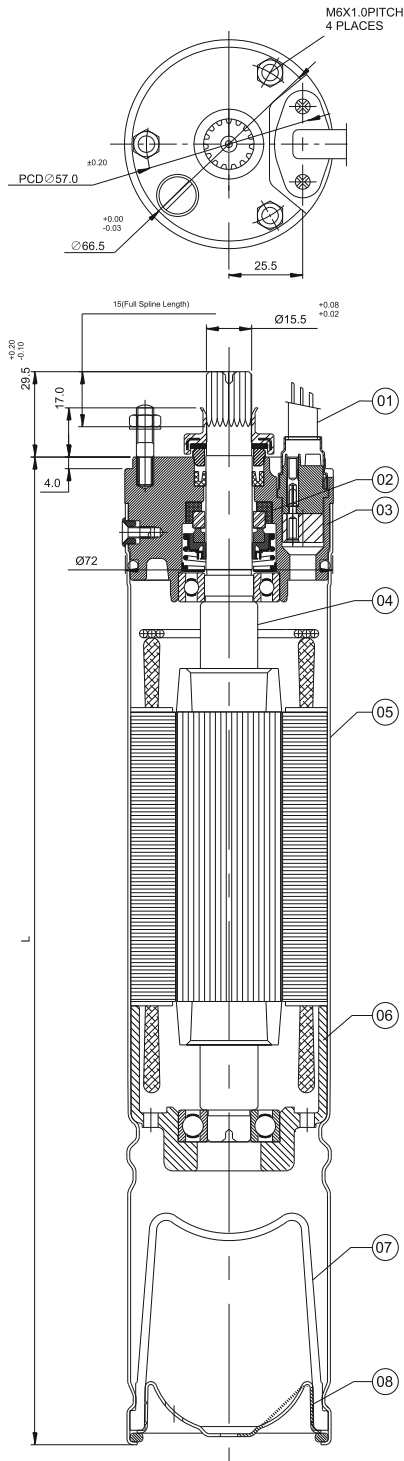
TECHNICAL SPECIFICATIONS:

- 3" Oil Lubricated Motors are rewindable.
- Winding wires are Enamelled dual coated.
- Insulation class : B.
- Degree of protection : Ip58.
- Max oil temperature : 35°C.
- Start per hour : 30 times (Max.).
- Allowable voltage variation : +6% - 10%.
- Motor shaft of Stainless Steel.
- Stator shell of Stainless Steel.
- Max depth immersion : 100M.
- Mounting : Vertical / Horizontal.
- Upper / Lower bracket in Cast Iron with Epoxy Point
- Single Phase Motors are Capacitor start and run.
- Motor Cable length : 3 Meter (3 Core / earth wire separate on demand).
- Coolant : Die electric non - toxic.

VERSIONS:

Single Phase : 0.37 kW to 1.10 kW, 220-230 Volt / 50 Hz.
Single Phase : 0.37 kW to 1.10 kW, 230 Volt / 60 Hz.
Motors with other Voltage and frequency ratings are available on specific demand.

3" O/L REWINDABLE MOTOR



No.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	P.V.C
02	MECH. SEAL	CERAMIC CARBON
03	UPPER HOUSING	CAST IRON (FG 200)
04	ROTOR SHAFT	SS 420
05	MOTOR SHELL	S.S.304
06	LOWER HOUSING	CAST IRON (FG 200)
07	PRESSURE CUP	HBR
08	MOTOR BASE PLATE	S.S.304
09	ALL HARDWARE	S.S.304

P _N		S.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
0.37	0.50	338	7.50	8.50
0.55	0.75	363	8.00	9.00
0.75	1.00	388	8.50	9.50
0.94	1.25	413	9.50	10.5

P _N		T.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
1.10	1.5	438	10.00	11.00

SUBMERSIBLE MOTOR

Technical Data of 3" Motors Single Phase
(220-230 Volt / 50 Hz) CSR

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]	Capacitor Running μF (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.50	0.37	1500	220	2690	5.00	6.30	33	34	35	0.94	0.96	0.97	1.30	0.99	30
			230	2700	4.80	6.60	31	32	33	0.92	0.95	0.97	1.30	1.01	
0.75	0.55	1500	220	2690	5.40	8.90	34	36	39	0.92	0.95	0.96	1.95	1.35	30
			230	2700	5.20	9.35	32	34	37	0.91	0.93	0.94	1.95	1.48	
1.00	0.75	1500	220	2740	6.20	10.70	44	48	50	0.92	0.96	0.97	2.55	2.07	30
			230	2750	6.00	11.20	42	46	48	0.91	0.95	0.96	2.55	2.27	
1.50	1.10	1500	220	2740	6.80	12.40	50	51	55	0.90	0.92	0.95	3.83	2.91	30
			230	2750	6.60	13.00	48	49	53	0.88	0.90	0.93	3.83	3.22	

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

• η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

Technical Data of 3" Motors Single Phase / 60 Hz (CSR)

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]	Capacitor Running μF (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.5	0.37	1500	230	3430	4.6	12.2	38	40	42	0.80	0.82	0.84	1.02	0.84	20
0.75	0.55	1500	230	3430	6.3	17.3	45	47	49	0.86	0.88	0.91	1.54	1.26	30
1.0	0.75	1500	230	3440	8.7	23	48	50	51	0.88	0.90	0.92	2.04	1.82	30
1.5	1.1	1500	230	3440	12	34	49	51	53	0.87	0.88	0.90	3.06	2.6	36

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

• η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

Technical Data of 3" Motors Single Phase / 60 Hz (CSCR)

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]	Capacitor Running μF (Uc=450V)	Capacitor Starting μF (Uc=270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.5	0.37	1500	230	3430	4.6	12.2	38	40	42	0.80	0.82	0.84	1.02	1.70	20	100-120
0.75	0.55	1500	230	3430	6.3	17.3	45	47	49	0.86	0.88	0.91	1.54	2.31	30	100-120
1.0	0.75	1500	230	3440	8.7	23	48	50	51	0.88	0.90	0.92	2.04	3.35	30	100-120
1.5	1.1	1500	230	3440	12	34	49	51	53	0.87	0.88	0.90	3.06	4.96	36	100-120

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

• η - Motor Efficiency

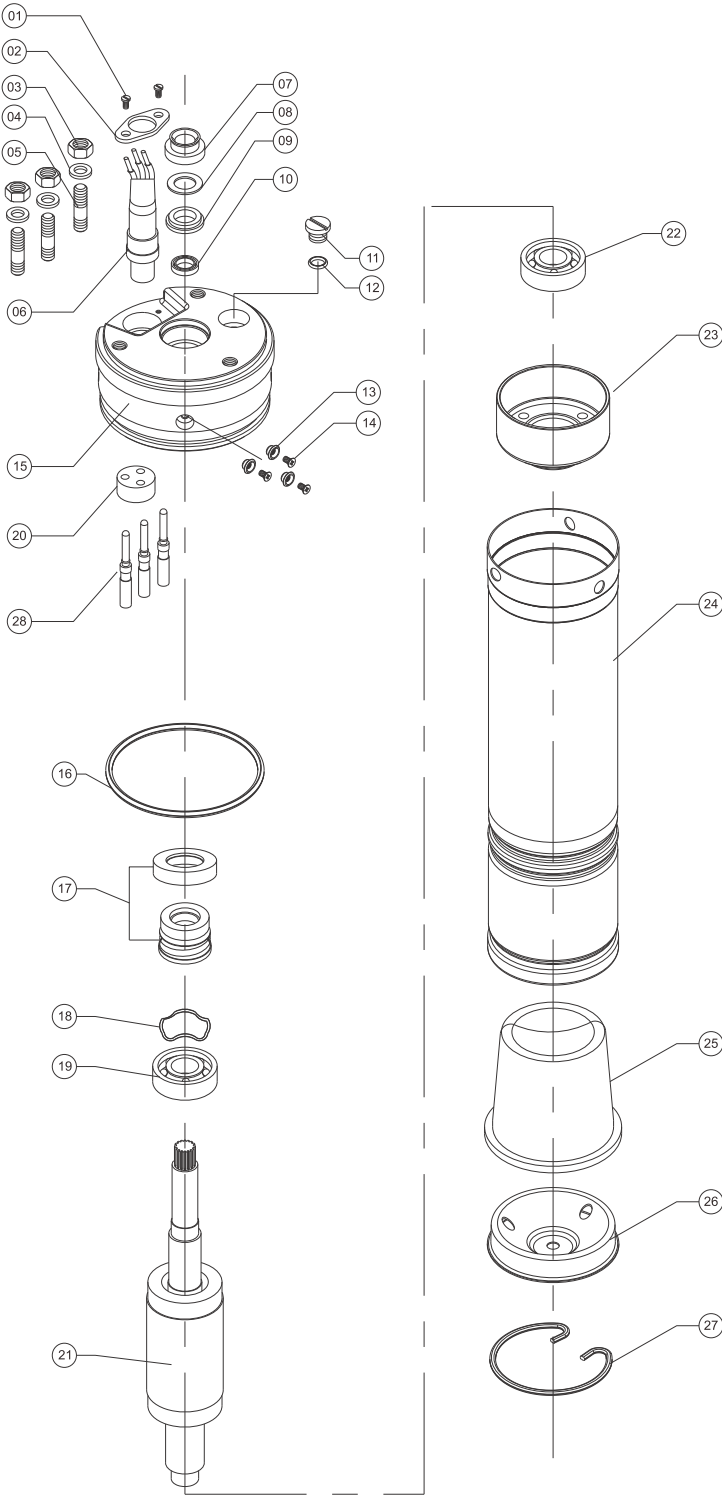
• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

SUBMERSIBLE MOTOR

EXPLODED DRAWING OF 3" O/L MOTORS



No.	Parts Name
1	CABLE CLIP SCREW
2	CABLE CLIP
3	HEX NUT
4	SPRING WASHER
5	UPPER STUD
6	CABLE SET
7	SAND GUARD
8	TEFLON WASHER
9	UPPER COLLER
10	OIL SEAL
11	DRAIN PLUG
12	DRAIN PLUG 'O' RING
13	SCREW COLLER
14	SCREW (FOUR WAY)
15	UPPER HOUSING
16	O' RING (UPPER HOUSING)
17	MECH.SEAL
18	WAVE WASHER
19	BALL BEARING (UPPER SIDE)
20	SMALL GROMMET
21	ROTOR FINISH
22	BALL BEARING (LOWER SIDE)
23	LOWER HOUSING
24	STATOR BODY
25	PRESSURE CUP
26	MOTOR BASE PLATE
27	CIR CLIP
28	MALE PIN
29	FEMALE PIN

SUBMERSIBLE MOTOR

3" WATER LUBRICATED REWINDABLE MOTORS

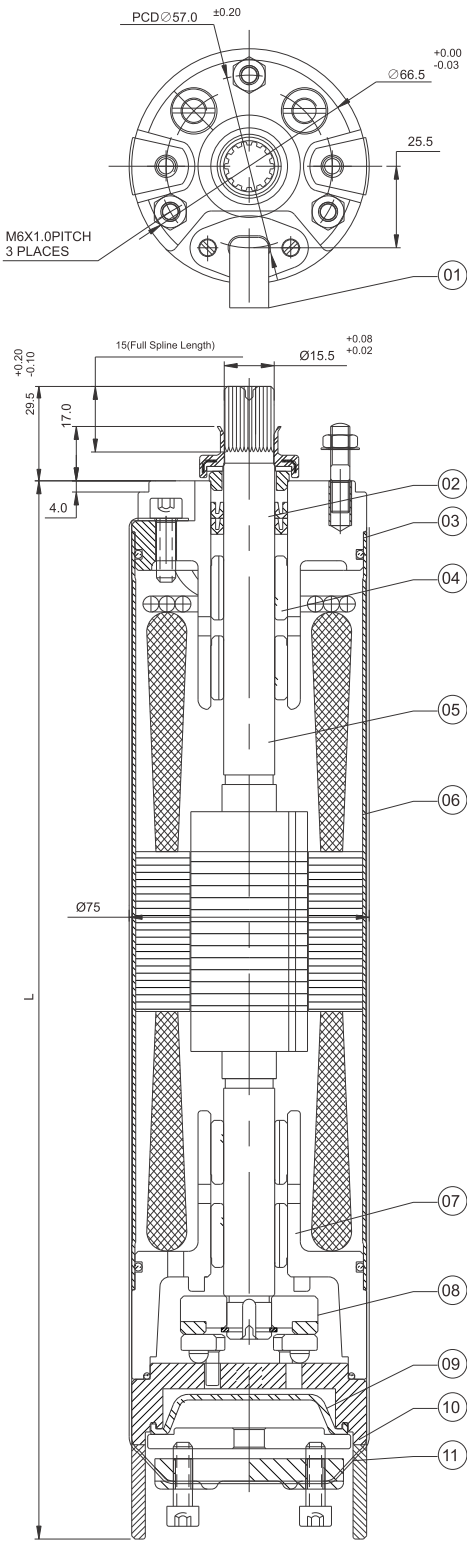
TECHNICAL SPECIFICATIONS:

- 3" Water lubricated Motors are rewindable.
- Winding wire: Polywrapped.
- Degree of protection : Ip68.
- Max water temperature : 35° C.
- Start per hour: 30 times (Max.).
- Allowable voltage variation: +6% -10%.
- Motor shaft of Stainless Steel.
- Stator shell of Stainless Steel.
- Max depth immersion : 100 M.
- Mounting : vertical / horizontal.
- Upper / Lower bracket in Cast Iron with Epoxy Paint.
- Single Phase Motors are Capacitor start and run.
- Motor Cable length : 3 Meter (3 Core / earth wire separate on demand).
- Coolant : Clear Water.

VERSIONS:

Single Phase : 0.37 kW to 1.10 kW , 220 - 230Volt / 50 Hz.
Single Phase : 0.37 kW to 1.10 kW, 230 Volt / 60 Hz.
Motors with other Voltage and frequency ratings are available on specific demand.

3" W/L REWINDABLE MOTOR



NO.	PARTS NAME	MATERIAL
01	CABLE 3 CORE	P.V.C
02	OIL SEAL	N.B.R
03	UPPER HOUSING	CAST IRON (F.G 200)
04	BEARING BUSH	L.T.B-4(2%Ni)
05	ROTOR SHAFT	SS 420
06	MOTOR SHELL	S.S 304
07	LOWER HOUSING	CAST IRON (F.G 200)
08	THRUST BEARING	CARBON / S.S.420
09	PRESSURE CUP	HBR
10	MOTOR BASE	CAST IRON (F.G 200)
11	CLAMPING STRIP	S.S.304
12	ALL HARDWARE	S.S.304

P _N		S.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
0.37	0.50	391	8.50	9.50
0.55	0.75	406	9.50	10.5
0.75	1.00	421	11.0	12.0
1.10	1.50	496	12.0	13.0
1.10	1.50	481	11.5	12.5
1.50	2.00	531	13.5	14.5
1.50	2.00	511	13.0	14.0

Technical Data of 3" Motors Single Phase
(220-230 Volt / 50 Hz) CSR

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]	Capacitor Running μF (U _c =450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.50	0.37	1500	220	2870	4.20	8.00	34	35	36	0.89	0.92	0.93	1.20	0.91	50
			230	2880	4.70	8.40	33	34	35	0.88	0.90	0.92	1.20	1.00	
0.75	0.55	1500	220	2870	5.20	13.20	36	39	41	0.84	0.86	0.88	1.80	1.24	50
			230	2880	6.00	13.70	35	37	39	0.81	0.83	0.85	1.80	1.37	
1.00	0.75	1500	220	2850	7.00	16.10	48	49	51	0.75	0.77	0.78	2.46	1.99	72
			230	2860	8.50	16.80	46	47	50	0.73	0.74	0.75	2.46	2.19	
1.50	1.10	1500	220	2790	8.50	16.10	53	55	56	0.77	0.79	0.85	3.78	2.87	72
			230	2800	9.00	16.80	51	53	55	0.76	0.78	0.83	3.76	3.15	

Technical Data of 3" Motors Single Phase
(220-230 Volt / 50 Hz) CSCR

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]	Capacitor Running μF (U _c =450V)	Capacitor Starting μF (U _c =270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.50	0.37	1500	220	2870	4.20	8.00	34	35	36	0.89	0.92	0.93	1.20	2.00	50	100-120
			230	2880	4.70	8.40	33	34	35	0.88	0.90	0.92	1.20	2.00		
0.75	0.55	1500	220	2870	5.20	13.20	36	39	41	0.84	0.86	0.88	1.80	2.70	50	100-120
			230	2880	6.00	13.70	35	37	39	0.81	0.83	0.85	1.80	2.70		
1.00	0.75	1500	220	2850	7.00	16.10	48	49	51	0.75	0.77	0.78	2.46	4.00	72	100-120
			230	2860	8.50	16.80	46	47	50	0.73	0.74	0.75	2.46	4.00		
1.50	1.10	1500	220	2790	8.50	16.10	53	55	56	0.77	0.79	0.85	3.78	6.00	72	100-120
			230	2800	9.00	16.80	51	53	55	0.76	0.78	0.83	3.76	6.00		

- P_N - Rated Output

• F[N] - Axial Thrust Load

• 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

SUBMERSIBLE MOTOR

Technical Data of 3" Motors Single Phase / 60 Hz (CSR)

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]	Capacitor Running μF (Uc=450V)
							50	75	100	50	75	100			
0.5	0.37	1500	230	3440	5	13	38	43	44	0.74	0.76	0.78	1.02	0.85	36
0.75	0.55	1500	230	3440	7	18.5	48	49	50	0.74	0.78	0.80	1.53	1.16	36
1.0	0.75	1500	230	3450	9.5	24	48	50	52	0.75	0.79	0.81	2.04	1.79	61
1.5	1.1	1500	230	3450	14	50	50	52	54	0.75	0.77	0.80	3.06	2.57	61

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

• η - Motor Efficiency

• cosφ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

Technical Data of 3" Motors Single Phase / 60 Hz (CSCR)

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]	Capacitor Running μF (Uc=450V)	Capacitor Starting μF (Uc=270V)
							50	75	100	50	75	100				
0.5	0.37	1500	230	3440	5	13	38	43	44	0.74	0.76	0.78	1.02	1.69	36	100-120
0.75	0.55	1500	230	3440	7	18.5	48	49	50	0.74	0.78	0.80	1.53	2.30	36	100-120
1.0	0.75	1500	230	3450	9.5	24	48	50	52	0.75	0.79	0.81	2.04	3.32	61	100-120
1.5	1.1	1500	230	3450	14	50	50	52	54	0.75	0.77	0.80	3.06	4.9	61	100-120

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

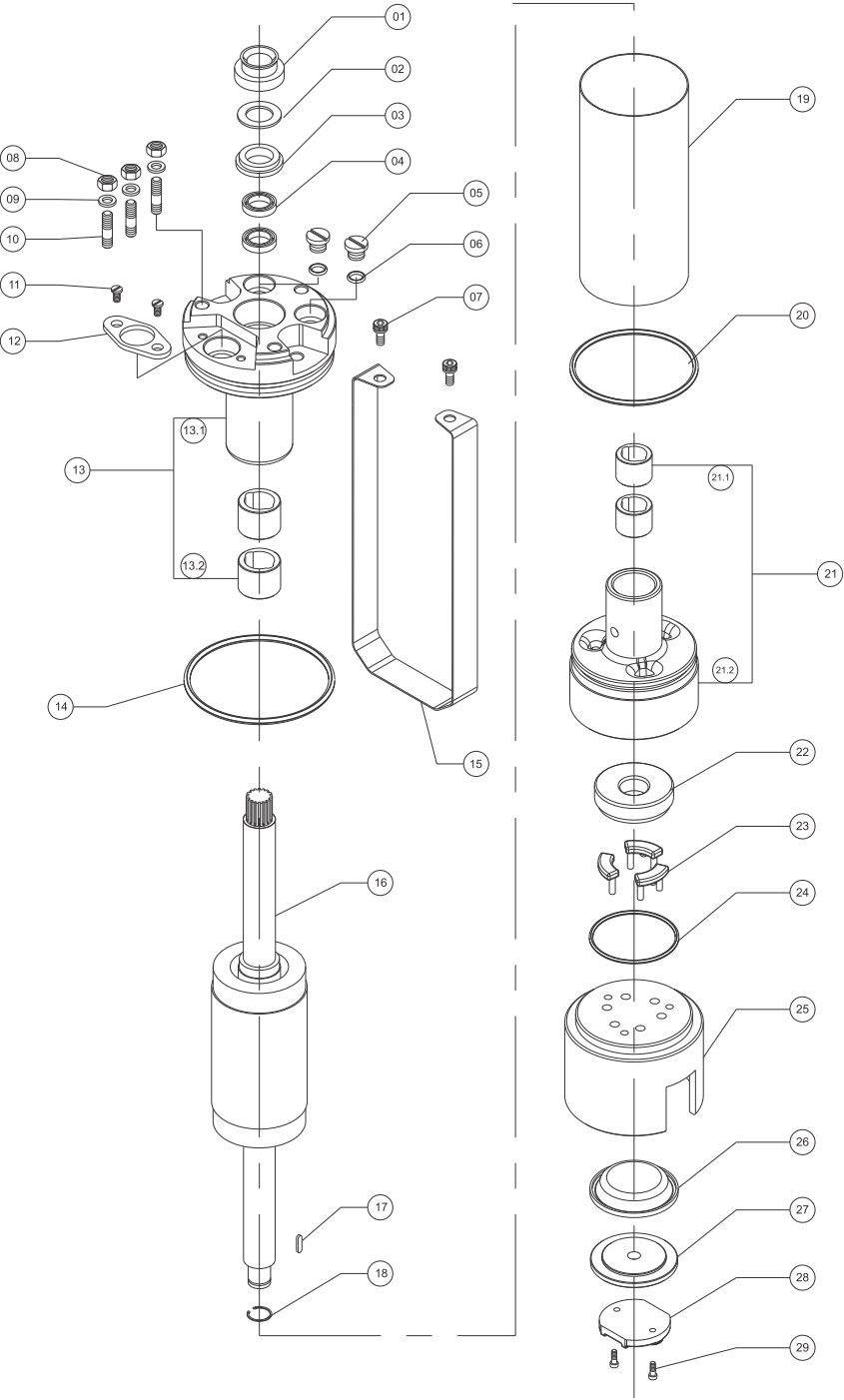
• η - Motor Efficiency

• cosφ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

EXPLODED DRAWING OF 3" O/L MOTORS



No.	PARTS NAME
1	SAND GUARD
2	TEFLON WASHER
3	OIL SEAL COLLER
4	OIL SEAL
5	DRAIN PLUG
6	DRAIN PLUG 'O' RING
7	ALLEN BOLT (MOTOR PATTI)
8	HEX NUT
9	SPRING WASHER
10	UPPER STUD
11	CABLE CLIP SCREW
12	CABLE CLIP
13	UPPER HOUSING FINISH WITH BUSH
13.1	UPPER HOUSING
13.2	BEARING BUSH
14	O RING
15	CLAMPING STRIP
16	ROTOR SHAFT
17	ROTOR KEY (BEARING SIDE)
18	CIR CLIP
19	STATOR BODY
20	O RING
21	LOWER HOUSING WITH BUSH
21.1	LOWER HOUSING
22.2	BEARING BUSH
22	CARBON PLATE
23	LOOS SEGMENT
24	O RING
25	MOTOR BASE
26	PRESSURE CUP
27	BASE PLATE
28	PULLING PLATE
29	ALLEN BOLT

SUBMERSIBLE MOTOR

4" OIL LUBRICATED REWINDABLE MOTORS

TECHNICAL SPECIFICATIONS:

- 4" Oil lubricated Motors are rewindable.
- Coupling dimensions as per NEMA standard.
- Winding wires are dual coated Enamelled.
- Insulation class : B.
- Degree of protection : Ip58.
- Max oil temperature : 35°C.
- Start per hour : 30 time (Max.).
- Allowable voltage variation : +6% - 10%.
- Motor shaft of Stainless Steel.
- Stator shell of Stainless Steel.
- Max depth immersion : 250M.
- Mounting : Vertical / Horizontal.
- Upper / Lower bracket with Stainless Steel cladding.
- Single Phase Motors are Capacitor start and run.
- Motor Cable length : 3 Meter (3 Core /4 Core).
- Coolant : Die electric non - toxic.

VERSIONS:

Single Phase : 0.25 kW to 2.20 kW, 220 - 230Volt / 50 Hz.

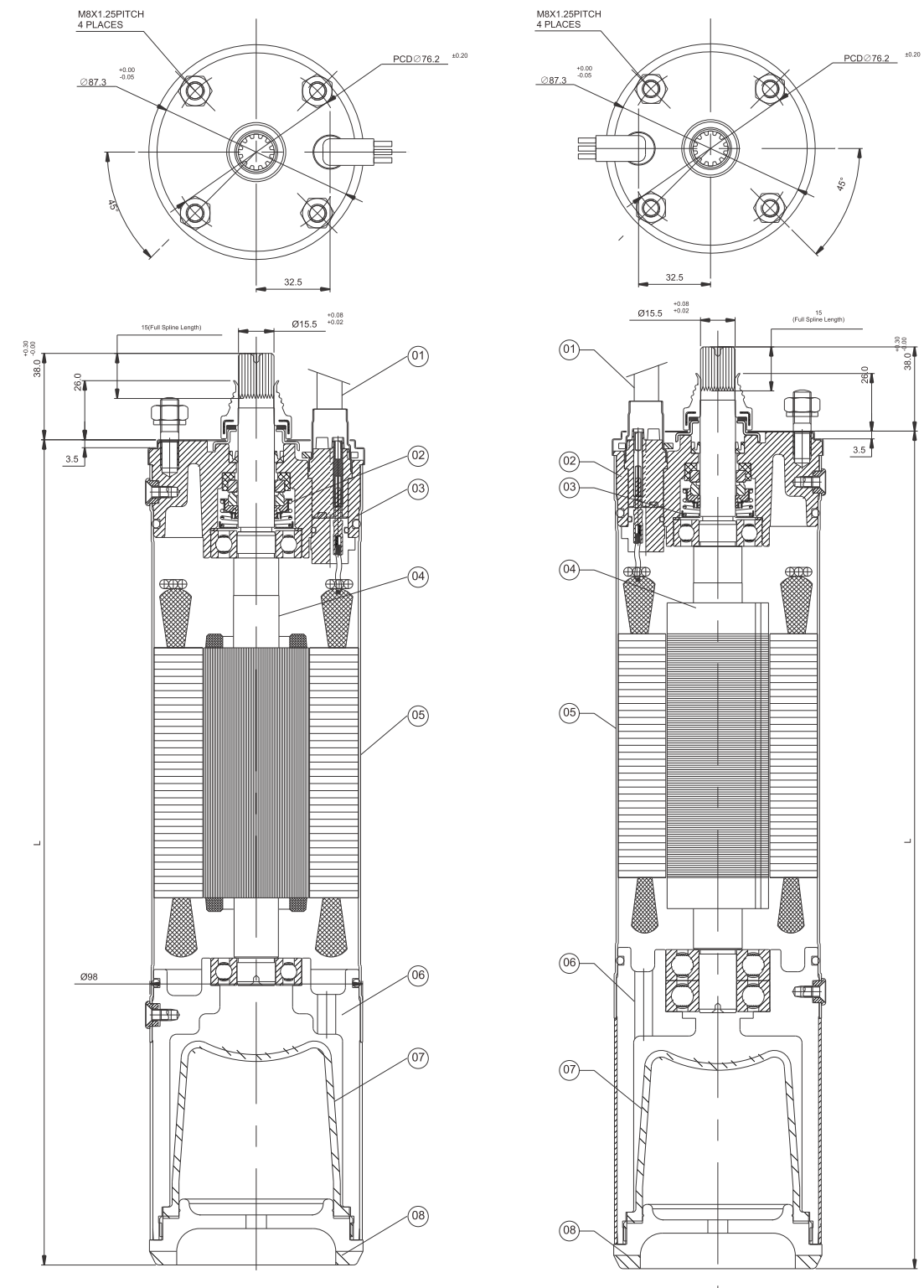
0.37 kW to 2.20 kW, 230Volt / 60 Hz.

Three Phase : 0.37 kW to 5.50 kW, 380 - 400 - 415Volt /50 Hz.

0.37 kW to 4.00 kW, 230 - 380 - 460Volt /60 Hz.

Motor with other voltage and frequency ratings are available on specific demand.

4" O/L REWINDABLE MOTOR



SUBMERSIBLE MOTOR

SR NO.	PARTS NAME	MATERIAL
01	CABLE 3 CORE / 4 CORE	EPR/PVC
02	MECH. SEAL	CERAMIC CARBON
03	UPPER HOUSING	CAST IRON with S.S Claded
04	ROTOR SHAFT	SS 420
05	MOTOR SHELL	S.S.304
06	LOWER HOUSING	CAST IRON with S.S Claded
07	PRESSURE CUP	HBR
08	MOTOR BASE	ENG. PLASTIC
09	ALL HARDWARE	S.S.304

P _N		S.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
0.37	0.50	303	6.3	8.30
0.55	0.75	328	6.8	8.80
0.75	1.00	363	8.2	10.2
1.10	1.50	403	9.4	11.4

P _N		T.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
0.37	1.00	328	6.8	8.80
0.37	1.00	348	7.5	9.5
1.10	1.50	363	8.2	10.2

P _N		S.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
1.50	2.00	468	12.9	14.9
2.20	3.00	498	13.5	15.5
2.20	3.00	528	20.0	22.0

P _N		T.P. L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg)[kg]
[kW]	[H.P.]			
1.50	2.00	403	11.0	13.0
2.20	3.00	448	12.0	14.0
4.00	5.50	498	13.5	15.5
5.50	7.50	598	22.0	24.0

Technical Data of 4" Motors Single Phase
(220-230 Volt / 50 Hz) CSR

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]	Capacitor Running μF (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.33	0.25	1500	220	2860	2.3	7.0	35	46	54	0.85	0.90	0.94	0.81	0.77	25
			230	2870	2.5	8.4	32	43	50	0.78	0.85	0.90	0.81	0.85	
0.50	0.37	1500	220	2850	3.2	10.7	37	49	56	0.88	0.94	0.97	1.22	0.93	25
			230	2860	3.4	11.2	36	46	53	0.81	0.84	0.93	1.22	1.02	
0.75	0.55	1500	220	2840	4.2	15.4	48	58	64	0.90	0.95	0.97	1.86	1.28	36
			230	2855	4.3	16.1	46	56	63	0.82	0.90	0.94	1.86	1.41	
1.00	0.75	1500	220	2840	5.8	20.2	44	55	61	0.96	0.98	0.99	2.46	1.99	36
			230	2855	5.7	21.1	42	53	60	0.90	0.95	0.98	2.46	2.19	
1.50	1.10	3000	220	2840	8.4	30.1	48	57	64	0.90	0.95	0.97	3.70	2.80	40
			230	2855	8.6	31.5	44	54	62	0.82	0.89	0.94	3.70	3.10	
2.00	1.50	3000	220	2805	10.6	33.9	52	62	67	0.91	0.96	0.98	4.97	3.28	50
			230	2825	10.6	35.4	49	59	66	0.82	0.90	0.95	4.97	3.63	
3.00	2.20	4000	220	2810	16.0	54.2	53	61	65	0.94	0.97	0.99	7.42	4.37	80
			230	2840	15.5	56.7	51	61	66	0.86	0.93	0.97	7.42	4.82	

Technical Data of 4" Motors Single Phase
(220-230 Volt / 50 Hz) CSCR

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]	Capacitor Running μF (Uc=450V)	Capacitor Starting μF (Uc=270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.33	0.25	1500	220	2900	2.9	12	45	53	57	0.50	0.60	0.69	0.81	1.37	25	100-120
			230	2900	2.8	11.5	45	53	57	0.50	0.60	0.69	0.81	1.37		
0.50	0.37	1500	220	2890	4.2	15.1	51	59	62	0.52	0.64	0.73	1.2	2	25	100-120
			230	2890	4	14.4	51	59	62	0.52	0.64	0.73	1.2	2		
0.75	0.55	1500	220	2900	6.3	24.1	52	59	63	0.48	0.59	0.69	1.8	2.7	36	100-120
			230	2900	6	23.1	52	59	63	0.48	0.59	0.69	1.8	2.7		
1.00	0.75	1500	220	2890	7.6	29.6	56	62	64	0.54	0.66	0.75	2.5	4.1	36	100-120
			230	2890	7.3	28.3	56	62	64	0.54	0.66	0.75	2.5	4.1		
1.50	1.10	3000	220	2890	9.6	41.4	58	65	68	0.59	0.71	0.80	3.7	6	40	100-120
			230	2890	8.9	39.6	58	65	68	0.59	0.71	0.80	3.7	6		
2.00	1.50	3000	220	2875	11.6	55.8	60	66	68	0.71	0.81	0.88	4.9	8.3	50	100-120
			230	2875	11.1	53.4	60	66	68	0.71	0.81	0.88	4.9	8.3		
3.00	2.20	4000	220	2885	16.7	84	61	68	70	0.72	0.82	0.88	7.4	14	80	100-150
			230	2885	15.9	88	61	68	70	0.72	0.82	0.88	7.4	14		

- P_N - Rated Output

• F[N] - Axial Thrust Load

• U_N - Rated Voltage

• n_N - RPM

• I_N - Full Load Current
- I_A - Starting Current

• η - Motor Efficiency

• cos ϕ - Power Factor

• T_N - Full Load Torque

• T_A - Starting Torque

SUBMERSIBLE MOTOR

Technical Data of 4" Motors Three Phase(380-415 Volt / 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		
0.50	0.37	1500	380	2840	1.1	4.4	59	64	66	0.57	0.69	0.76	1.2	2.3
			400	2865	1.1	4.7	56	63	66	0.53	0.65	0.70	1.2	2.5
			415	2875	1.2	4.9	54	62	66	0.49	0.60	0.76	1.2	2.8
0.75	0.55	1500	380	2830	1.6	6.0	61	67	67	0.59	0.72	0.80	1.9	3.1
			400	2855	1.6	6.4	58	64	67	0.54	0.67	0.75	1.9	3.5
			415	2870	1.7	6.6	55	63	66	0.50	0.63	0.80	1.9	3.7
1.00	0.75	1500	380	2850	2.1	8.9	63	68	70	0.57	0.70	0.79	2.5	4.8
			400	2870	2.1	9.3	60	67	69	0.52	0.65	0.75	2.5	5.3
			415	2880	2.2	9.8	57	65	68	0.49	0.61	0.71	2.5	5.9
1.50	1.10	3000	380	2820	3.0	13.8	69	72	72	0.59	0.73	0.81	3.8	9.6
			400	2840	3.0	14.5	66	71	73	0.53	0.67	0.76	3.7	10.6
			415	2860	3.1	15.3	64	70	72	0.49	0.62	0.72	3.7	11.5
2.00	1.50	3000	380	2840	3.9	18.6	69	72	73	0.59	0.72	0.81	5.0	11.3
			400	2855	4.0	19.2	66	71	73	0.53	0.66	0.76	5.0	12.6
			415	2870	4.1	20.2	63	69	72	0.48	0.61	0.72	4.9	13.5
3.00	2.20	4000	380	2815	5.8	28.7	72	75	75	0.58	0.72	0.81	7.6	21.7
			400	2840	5.9	28.9	69	73	75	0.51	0.64	0.75	7.5	23.6
			415	2870	6.3	30.8	66	71	73	0.45	0.59	0.69	7.5	25.9
4.00	3.00	6500	380	2785	6.4	32.0	70	73	75	0.70	0.73	0.76	10.15	23.35
			400	2790	6.3	32.5	69	71	74	0.69	0.72	0.75	10.10	25.25
			415	2810	6.1	33.2	67	70	73	0.67	0.71	0.73	10.00	28.0
5.50	4.00	6500	380	2785	9.70	38.0	70	72	75	0.71	0.73	0.75	13.37	26.56
			400	2790	9.50	40.0	69	70	74	0.69	0.72	0.74	13.34	29.4
			415	2800	9.40	41.5	67	69	73	0.67	0.70	0.73	13.30	32
7.50	5.50	6500	380	2810	13.70	47.0	70	72	75	0.72	0.73	0.75	18.76	37.52
			400	2820	13.50	49.0	69	71	74	0.70	0.71	0.74	18.70	41.14
			415	2840	13.00	51.0	68	70	73	0.68	0.70	0.72	18.56	44.54

Technical Data of 4" Motors Single Phase
(220-230 Volt / 60 Hz) CSR

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]	Capacitor Running μF (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.5	0.37	3000	230	3450	3.1	10.7	43	53	60	0.76	0.79	0.88	1.02	0.86	25
0.75	0.55	3000	230	3450	4.2	15.4	50	60	67	0.83	0.91	0.95	1.53	1.16	36
1.0	0.75	3000	230	3460	5.8	20.2	46	55	62	0.90	0.95	0.98	2.03	1.81	36
1.5	1.1	3000	230	3450	8	30.1	49	59	67	0.81	0.88	0.93	3.06	2.57	40
2.0	1.5	3000	230	3450	10.1	33.9	53	63	70	0.83	0.91	0.96	4.07	2.97	50
3.0	2.2	4000	230	3430	14	54.2	58	68	73	0.87	0.94	0.98	6.15	4.00	80

Technical Data of 4" Motors Single Phase
(220-230 Volt / 60 Hz) CSCR

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]	Capacitor Running ηF (Uc=450V)	Capacitor Starting μF (Uc=270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.5	0.37	3000	230	3480	4.2	15.2	57	64	67	0.50	0.59	0.68	1.01	1.68	25	100-120
0.75	0.55	3000	230	3485	6.5	24.2	57	65	68	0.49	0.59	0.70	1.51	2.27	36	100-120
1.0	0.75	3000	230	3590	7.8	30	54	62	65	0.53	0.64	0.73	2.01	3.3	36	100-120
1.5	1.1	3000	230	3490	9.6	41.5	60	67	70	0.59	0.70	0.79	3.04	4.92	40	100-120
2.0	1.5	3000	230	3480	11.1	55.3	63	71	74	0.69	0.80	0.89	4.04	6.87	50	100-120
3.0	2.2	4000	230	3475	14.7	82	67	74	77	0.70	0.81	0.89	6.07	11.5	80	120-150

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

• η - Motor Efficiency

• cosφ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

SUBMERSIBLE MOTOR

Technical Data of 4" Motors Three Phase / 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		
0.5	0.37	3000	230	3445	2.41	9.6	59	62	64	0.58	0.71	0.79	1.02	1.84
			380	3445	1.42	5.6	59	62	64	0.58	0.71	0.79	1.02	1.96
			460	3445	1.21	4.8	59	62	64	0.58	0.71	0.79	1.02	2.24
0.75	0.55	3000	230	3450	3.10	12.4	63	67	69	0.57	0.71	0.80	1.53	2.3
			380	3450	1.91	7.6	63	67	69	0.57	0.71	0.80	1.53	2.5
			460	3450	1.60	6.4	63	67	69	0.57	0.71	0.80	1.53	2.75
1.0	0.75	3000	230	3455	3.91	17.55	65	68	70	0.59	0.72	0.81	2.03	3.55
			380	3455	2.32	10.35	65	68	70	0.59	0.72	0.81	2.03	3.90
			460	3455	2.00	9	65	68	70	0.59	0.72	0.81	2.03	4.47
1.5	1.1	3000	230	3445	5.00	25	70	73	76	0.61	0.76	0.83	3.04	6.69
			380	3445	3.00	15	70	73	76	0.61	0.76	0.83	3.04	7.7
			460	3445	2.51	12.5	70	73	76	0.61	0.76	0.83	3.04	8.2
2.0	1.5	3000	230	3445	6.71	33.5	64	66	69	0.59	0.73	0.81	4.08	8.16
			380	3445	4.11	20.5	64	66	69	0.59	0.73	0.81	4.08	9.22
			460	3445	3.40	17	64	66	69	0.59	0.73	0.81	4.08	10.2
3.0	2.2	4000	230	3450	9.51	47.5	70	73	75	0.52	0.65	0.74	6.11	15.3
			380	3450	5.80	29	70	73	75	0.52	0.65	0.74	6.11	17.4
			460	3450	4.82	24	70	73	75	0.52	0.65	0.74	6.11	18.33
5.5	4.0	6500	230	3450	15.91	55.65	69	71	74	0.52	0.66	0.75	11.2	18.50
			380	3450	9.62	33.6	69	71	74	0.52	0.66	0.75	11.2	22.18
			460	3450	8.00	28	69	71	74	0.52	0.66	0.75	11.2	25.80

- PN - Rated Output

• F[N] - Axial Thrust Load

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current
- IA - Starting Current

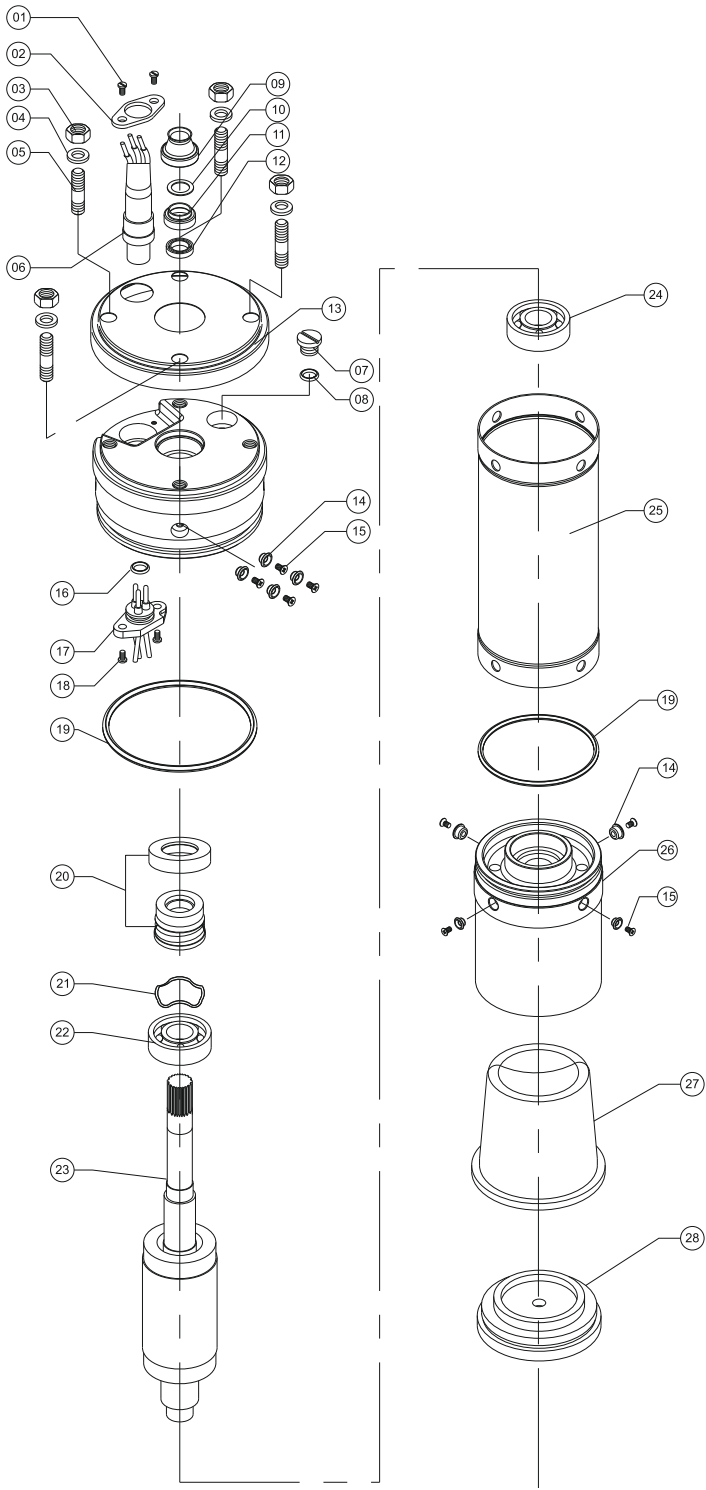
• η - Motor Efficiency

• cosφ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

Exploded Drawing of 4" O/L Motor



No.	PARTS NAME
1	CABLE CLIP SCREW
2	CABLE CLIP
3	HEX NUT
4	STUD WASHER
5	UPPER STUD
6	CABLE SET
7	DRAIN PLUG
8	DRAIN PLUG 'O' RING
9	SAND GUARD(WITH INSTERT)
10	TEFLON WASHER
11	UPPER CAP
12	OIL SEAL
13	UPPER JACKET
14	SCREW COLLAR
15	SCREW (FOR COLLAR)
16	CABLE CONNECTOR PIN 'O' RING
17	CABLE CONNECTOR PIN
18	CABLE CONNECTOR PIN SCREW
19	'O' RING
20	MECHANICAL SEAL
21	WAVE WASHER
22	BALL BEARING (UPPER SIDE)
23	ROTOR
24	BALL BEARING (LOWER SIDE)
25	STATOR BODY
26	LOWER HOUSING
27	PRESSURE CUP
28	MOTOR BASE PLATE

SUBMERSIBLE MOTOR

4" WATER LUBRICATED REWINDABLE MOTORS

TECHNICAL SPECIFICATIONS:

- 4" Water Lubricated Motors are rewindable.
- Coupling dimensions as per NEMA standard.
- Winding wire : Polywrapped.
- Degree of protection : Ip68.
- Max water temperature : 35° C.
- Start per hour : 30 time (Max.).
- Allowable voltage variation +6% - 10%.
- Motor shaft of Stainless Steel.
- Stator shell of Stainless Steel.
- Max depth immersion : 250 M.
- Mounting : vertical / horizontal.
- Upper / Lower bracket in Cast Iron with Epoxy Paint OR
- Upper Bracket Steel Cast/ Lower bracket with SS Cladding.
- Single Phase Motors are Capacitor start and run.
- Motor Cable length : 3 Meter (3 Core / 4 Core).
- Coolant : Clear Water.

VERSIONS:

Single Phase : 0.37 kW to 4.00 kW, 220 - 230Volt / 50 Hz.

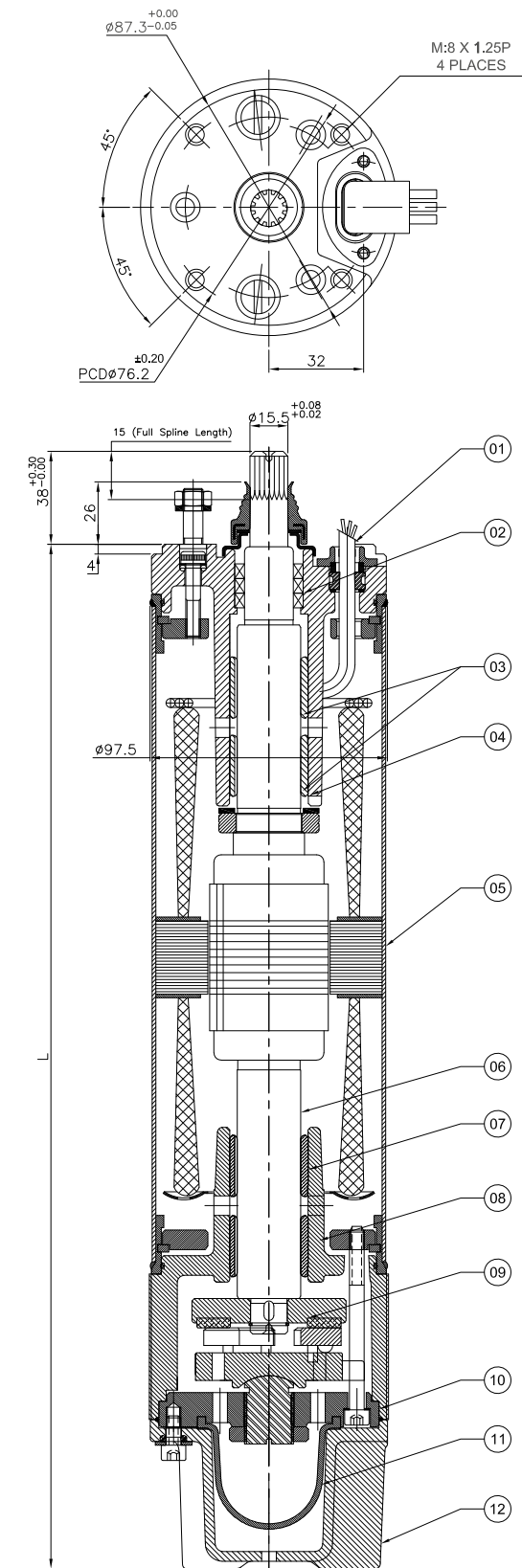
0.37 kW to 4.00 kW, 230Volt / 60 Hz.

Three Phase : 0.55 kW to 7.50 kW, 380 - 415Volt / 50 Hz.

0.37 kW to 7.50 kW, 230 - 380 - 460Volt /60 Hz.

Motors with other Voltage and frequency ratings are also available on specific demand.

4" W/L REWINDABLE MOTOR



SUBMERSIBLE MOTOR

SR NO.	PART'S NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	EPR
02	OIL SEAL	N.B.R
03	BEARING BUSH	CARBON
04	UPPER HOUSING	S.S 304/ CAST IRON (F.G 200) / CLADED
05	MOTOR SHELL	S.S.304
06	ROTOR SHAFT	S.S.431
07	BEARING BUSH	CARBON
08	LOWER HOUSING	CAST IRON / CLADED
09	THRUST BEARING SET	CARBON / S.S 420
10	BEARING BASE PLATE	CAST IRON
11	PRESSURE CUP	HBR
12	MOTOR BASE	S.S.304/CAST IRON (F.G 200)
13	ALL HARDWARE	S.S.304

P _N		PW	MOTOR WEIGHT		MOTOR WEIGHT	
		L [mm]	[kg]		(incl.pkg) [kg]	
[kW]	[HP] (S.P)	C.I. / S.S.	S.S. 304	Cast Iron	S.S. 304	Cast Iron
0.37	0.50	526	12.0	12.2	13.8	15.7
0.55	0.75	526	12.0	12.2	13.8	15.7
0.75	1.00	541	12.5	12.6	14.2	16.2
1.10	1.50	556	12.8	13.2	14.7	16.7
1.50	2.00	641	20.6	21.7	23.7	24.0
2.20	3.00	691	23.2	24.3	26.0	27.0
3.70	5.00	911	36.2	38.4	40.5	42.0

P _N		PW	MOTOR WEIGHT		MOTOR WEIGHT	
		L [mm]	[kg]		(incl.pkg) [kg]	
[kW]	[HP] (T.P)	C.I. / S.S.	S.S. 304	Cast Iron	S.S. 304	Cast Iron
0.37	0.50	568	12.9	13.2	15.0	17.0
0.55	0.75	568	12.9	13.2	15.0	17.0
0.75	1.00	603	16.9	17.2	20.2	22.2
1.10	1.50	603	16.9	17.2	20.2	22.2
1.50	2.00	623	20.0	21.0	23.0	24.0
2.20	3.00	673	22.5	23.6	25.2	26.2
2.98	4.00	713	23.8	25.0	26.7	27.7
		743	24.8	26.0	27.7	28.7
3.70	5.00	773	33.5	35.4	38.0	39.0
4.40	6.00	833	36.1	38.1	40.9	42.0
5.50	7.50	913	36.2	38.4	40.5	43.0
7.50	10.00	968	38.4	40.7	42.9	45.6

Technical Data of 4" Motors Single Phase
(220-230 Volt / 50 Hz) CSR

P _N		Thrust Load [N]	U _N [V]	n _N [min-1]	I _N [A]	I _A [A]	η [%]			cos φ			T _N [Nm]	T _A [Nm]	Capacitor Running F (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.50	0.37	1500	220	2855	3.21	10.6	37	49	56	0.89	0.93	0.96	1.21	0.93	72
			230	2860	3.40	11.3	36	47	54	0.82	0.84	0.93	1.21	1.02	
0.75	0.55	1500	220	2845	4.19	15.38	47	58	64	0.91	0.94	0.97	1.86	1.28	72
			230	2855	4.29	16.11	46	57	64	0.82	0.91	0.93	1.86	1.42	
1.00	0.75	1500	220	2845	5.79	20.21	45	56	61	0.95	0.98	0.99	2.45	1.99	72
			230	2855	5.70	21.10	43	53	61	0.91	0.96	0.98	2.45	2.19	
1.50	1.10	3000	220	2850	8.41	30.11	47	58	64	0.91	0.95	0.98	3.70	2.81	72
			230	2855	8.58	31.50	44	54	63	0.82	0.90	0.95	3.70	3.10	
2.00	1.50	3000	220	2805	10.59	33.91	52	62	68	0.92	0.95	0.98	4.97	3.28	72
			230	2825	10.59	35.38	50	59	67	0.81	0.90	0.96	4.97	3.62	
3.00	2.20	4000	220	2815	16.00	54.1	52	60	64	0.95	0.96	0.99	7.41	4.37	108
			230	2840	15.51	56.6	51	62	66	0.85	0.92	0.97	7.41	4.82	
4.00	3.00	4000	220	2810	20.1	72	55	61	66	0.94	0.96	0.96	10	6	108
			230	2830	20.0	74	52	61	67	0.85	0.93	0.97	9.94	6.5	
5.50	4.00	4000	220	2815	25.5	92.0	55	62	67	0.95	0.96	0.97	13.7	8.90	108
			230	2830	25.2	95.7	53	62	67	0.86	0.94	0.98	13.6	8.98	

Technical Data of 4" Motors Single Phase
(220-230 Volt / 50 Hz) CSCR

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]	Capacitor Running μF (Uc=450V)	Capacitor Starting μF (Uc=270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.50	0.37	1500	220	2890	4.21	15.11	50	60	62	0.51	0.64	0.74	1.21	2	72	100-120
			230	2890	4.00	14.30	50	60	62	0.51	0.64	0.74	1.21	2		
0.75	0.55	1500	220	2895	6.29	24.11	51	59	63	0.49	0.60	0.69	1.79	2.7	72	100-120
			230	2895	6.00	23.00	51	59	63	0.49	0.60	0.69	1.79	2.7		
1.00	0.75	1500	220	2890	7.59	29.5	55	63	64	0.55	0.66	0.76	2.51	4.1	72	100-120
			230	2890	7.31	28.2	55	63	64	0.55	0.66	0.76	2.51	4.1		
1.50	1.10	3000	220	2890	9.58	41.3	57	66	68	0.58	0.72	0.80	3.69	6.0	72	100-120
			230	2890	8.90	39.5	57	66	68	0.58	0.72	0.80	3.69	6.0		
2.00	1.50	3000	220	2880	11.58	55.7	61	67	68	0.70	0.82	0.88	4.89	8.28	72	100-120
			230	2880	11.10	53.5	61	67	68	0.70	0.82	0.88	4.89	8.28		
3.00	2.20	4000	220	2885	16.71	83	62	68	70	0.71	0.81	0.88	7.41	14	108	120-150
			230	2885	15.89	87	62	68	70	0.71	0.81	0.88	7.41	14		
4.00	3.00	4000	220	2885	20.6	103	62	68	71	0.73	0.82	0.88	9.75	18.5	108	120-150
			230	2885	20.3	112	62	68	71	0.73	0.82	0.88	9.75	18.5		
5.50	4.00	4000	220	2885	25.8	129	63	69	71	0.74	0.82	0.89	13.4	24.1	108	120-150
			230	2885	25.6	141	63	69	71	0.74	0.82	0.89	13.4	24.1		

- 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

SUBMERSIBLE MOTOR

Technical Data of 4" Motors Three Phase (380-415 Volt / 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		
0.75	0.55	1500	380	2835	1.59	6.00	60	66	67	0.60	0.72	0.81	1.89	3.11
			400	2855	1.59	6.38	58	65	67	0.54	0.68	0.75	1.89	3.51
			415	2875	1.70	6.61	55	64	66	0.50	0.64	0.80	1.89	3.70
1.00	0.75	1500	380	2845	2.11	8.88	64	67	70	0.58	0.71	0.79	2.50	4.81
			400	2870	2.11	9.30	60	68	69	0.51	0.64	0.75	2.50	5.32
			415	2880	2.20	9.81	58	65	68	0.49	0.61	0.72	2.50	5.89
1.50	1.10	3000	380	2825	3.00	13.70	68	72	73	0.58	0.72	0.81	3.79	9.61
			400	2840	3.00	14.51	67	71	73	0.53	0.67	0.75	3.69	10.60
			415	2860	3.11	15.28	65	70	72	0.50	0.62	0.72	3.69	11.49
2.00	1.50	3000	380	2845	3.91	18.59	68	72	73	0.60	0.72	0.81	5.0	11.31
			400	2855	4.00	19.21	66	72	73	0.54	0.66	0.77	5.0	12.60
			415	2870	4.10	20.21	64	70	72	0.49	0.62	0.73	4.9	13.49
3.00	2.20	4000	380	2820	5.80	28.68	71	75	75	0.59	0.72	0.81	7.59	21.71
			400	2840	5.91	28.90	70	73	75	0.51	0.65	0.76	7.51	23.61
			415	2870	6.29	30.78	66	71	74	0.46	0.60	0.69	7.51	25.90
4.00	3.00	4000	380	2810	8.5	29.5	62	67	70	0.72	0.78	0.82	10	16
			400	2820	8.2	31.0	61	66	68	0.71	0.77	0.80	9.97	17.95
			415	2850	8.0	33.0	60	65	67	0.70	0.76	0.80	9.87	18.75
5.50	4.00	4000	380	2790	10.79	32.29	62	67	71	0.72	0.79	0.83	13.39	21.25
			400	2790	10.51	34.00	61	65	69	0.70	0.76	0.82	13.30	23.54
			415	2810	10.0	35.00	59	64	66	0.69	0.74	0.82	13.30	25.29
7.50	5.50	4000	380	2785	14.79	50.4	69	73	74	0.74	0.79	0.84	18.93	37.19
			400	2790	14.51	53.0	68	72	73	0.74	0.79	0.84	18.92	41.21
			415	2810	14.00	54.9	67	69	71	0.73	0.77	0.83	18.81	44.35
10.0	7.50	4000	380	2855	18.00	61.1	70	72	73	0.98	0.95	0.92	24.58	45.10
			400	2860	18.31	62.0	67	71	72	0.99	0.94	0.91	24.51	46.00
			415	2880	18.79	65.9	66	68	70	0.97	0.92	0.88	24.40	47.51

- PN - Rated Output

• UN - Rated Voltage

• nN- RPM

• IN - Full Load Current

• IA - Starting Current
- η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

F{N}- Axial Thrust Load

Technical Data of 4" Motors Single Phase / 60 Hz (CSR)

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]	Capacitor Running μF (Uc=450V)
[H.P.]	[kW]						50	75	100	50	75	100			
0.5	0.37	3000	230	3450	4.2	10.7	43	53	60	0.76	0.79	0.88	1.02	0.86	72
0.75	0.55	3000	230	3450	5	15.4	50	60	67	0.83	0.91	0.95	1.53	1.16	72
1.0	0.75	3000	230	3460	7	20.2	46	55	62	0.90	0.95	0.98	2.03	1.81	72
1.5	1.1	3000	230	3450	9.5	30.1	49	59	67	0.81	0.88	0.93	3.06	2.57	72
2.0	1.5	3000	230	3450	12	33.9	53	63	70	0.83	0.91	0.96	4.07	2.97	72
3.0	2.2	4000	230	3430	16	54.2	58	68	73	0.87	0.94	0.98	6.15	4.00	108

- PN - Rated Output

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current

• IA - Starting Current
- η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

F(N) - Axial Thrust Load

Technical Data of 4" Motors Single Phase / 60 Hz (CSCR)

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]	Capacitor Running ηF (Uc=450V)	Capacitor Starting μF (Uc=270V)
[H.P.]	[kW]						50	75	100	50	75	100				
0.5	0.37	3000	230	3480	4.2	15.2	57	64	67	0.50	0.59	0.68	1.01	1.68	72	100-120
0.75	0.55	3000	230	3485	6.5	24.2	57	65	68	0.49	0.59	0.70	1.51	2.27	72	100-120
1.0	0.75	3000	230	3490	7.8	30	54	62	65	0.53	0.64	0.73	2.01	3.3	72	100-120
1.5	1.1	3000	230	3490	9.6	41.5	60	67	70	0.59	0.70	0.79	3.04	4.92	72	100-120
2.0	1.5	3000	230	3480	12.5	55.3	63	71	74	0.69	0.80	0.89	4.04	6.87	72	100-120
3.0	2.2	4000	230	3475	16.5	82	67	74	77	0.70	0.81	0.89	6.07	11.5	108	120-150
5.5	4.0	4000	230	3450	26.0	130	68	74	77	0.70	0.82	0.98	11.2	21.2	108	200-250

- PN - Rated Output

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current

• IA - Starting Current
- η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

F(N) - Axial Thrust Load

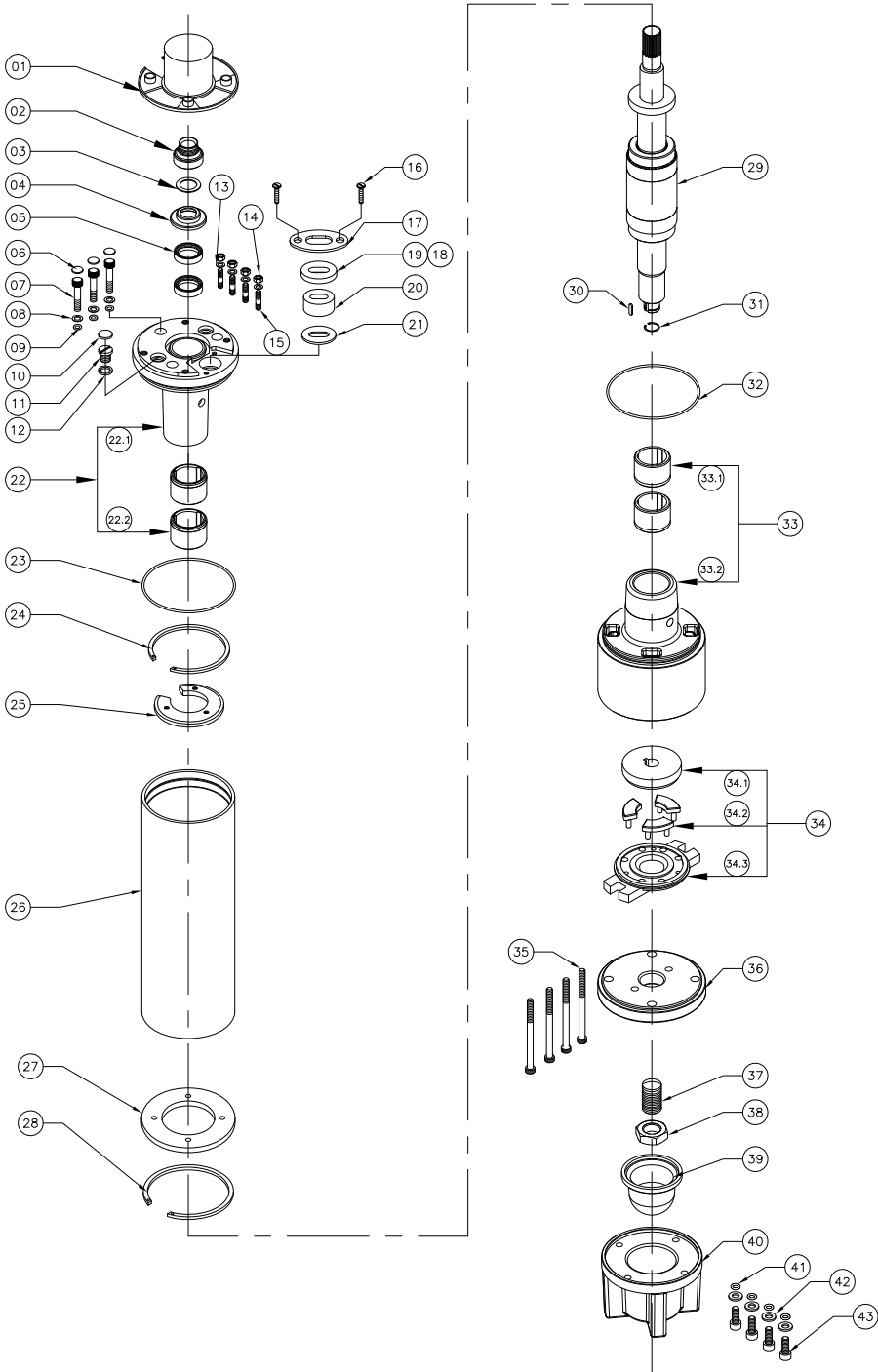
SUBMERSIBLE MOTOR

Technical Data of 4" Motors Three Phase / 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		
0.5	0.37	3000	230	3445	2.41	9.6	59	62	64	0.58	0.71	0.79	1.02	1.84
			380	3445	1.42	5.6	59	62	64	0.58	0.71	0.79	1.02	1.96
			460	3445	1.21	4.8	59	62	64	0.58	0.71	0.79	1.02	2.24
0.75	0.55	3000	230	3450	3.10	12.4	63	67	69	0.57	0.71	0.80	1.53	2.3
			380	3450	1.91	7.6	63	67	69	0.57	0.71	0.80	1.53	2.5
			460	3450	1.60	6.4	63	67	69	0.57	0.71	0.80	1.53	2.75
1.0	0.75	3000	230	3455	3.91	17.55	65	68	70	0.59	0.72	0.81	2.03	3.55
			380	3455	2.32	10.35	65	68	70	0.59	0.72	0.81	2.03	3.9
			460	3455	2.00	9	65	68	70	0.59	0.72	0.81	2.03	4.47
1.5	1.1	3000	230	3445	5.00	25	70	73	76	0.61	0.76	0.83	3.04	6.69
			380	3445	3.00	15	70	73	76	0.61	0.76	0.83	3.04	7.7
			460	3445	2.51	12.5	70	73	76	0.61	0.76	0.83	3.04	8.2
2.0	1.5	3000	230	3445	6.71	33.5	64	66	69	0.59	0.73	0.81	4.08	8.16
			380	3445	4.11	20.5	64	66	69	0.59	0.73	0.81	4.08	9.22
			460	3445	3.40	17	64	66	69	0.59	0.73	0.81	4.08	10.2
3.0	2.2	4000	230	3450	9.51	47.5	70	73	75	0.52	0.65	0.74	6.11	15.3
			380	3450	5.80	29	70	73	75	0.52	0.65	0.74	6.11	17.4
			460	3450	4.82	24	70	73	75	0.52	0.65	0.74	6.11	18.33
5.5	4.0	6500	230	3450	15.91	55.65	69	71	74	0.52	0.66	0.75	11.2	15.70
			380	3450	9.62	33.6	69	71	74	0.52	0.66	0.75	11.2	17.70
			460	3450	8.00	28	69	71	74	0.52	0.66	0.75	11.2	19.04
7.5	5.5	6500	230	3445	23.0	92	71	73	76	0.56	0.68	0.77	15.30	22.95
			380	3445	13.91	55.6	71	73	76	0.56	0.68	0.77	15.30	30.00
			460	3445	11.51	46	71	73	76	0.56	0.68	0.77	15.30	33.70
10.0	7.5	6500	230	3450	27.1	95	70	73	75	0.58	0.71	0.80	20.4	32.64
			380	3450	19.29	67.55	70	73	75	0.58	0.71	0.80	20.4	37.33
			460	3450	15.91	55.65	70	73	75	0.58	0.71	0.80	20.4	44.90

- PN - Rated Output
 - UN - Rated Voltage
 - nN - RPM
 - IN - Full Load Current
 - IA - Starting Current
- η - Motor Efficiency
 - cosϕ - Power Factor
 - TN - Full Load Torque
 - TA - Starting Torque
 - F(N) - Axial Thrust Load

Exploded Drawing of 4" WF Motor



No.	PART'S NAME
1	ROTOR CAP
2	SAND GUARD
3	TEFLON WASHER
4	UPPER CAP
5	OIL SEAL
6	ALLEN BOLT CAP
7	ALLEN BOLT
8	ALLEN BOLT WASHER
9	ALLEN BOLT 'O' RING
10	DRAIN PLUG CAP
11	DRAIN PLUG
12	DRAIN PLUG 'O' RING
13	SPRING WASHER
14	HEX NUT
15	STUD
16	ALLEN BOLT(FOR CABLE CLIP)
17	CABLE CLIP
18	PLASTIC GROMMET WASHER
20	CABLE GROMMET
21	S.S. GROMMET WASHER
22	UPPER WITH BUSH
22.1	UPPER HOUSING
22.2	BEARING BUSH
23	O' RING (UPPER SIDE)
24	CIR CLIP (UPPER SIDE)
25	UPPER FLANGE
26	STATOR BODY
27	LOWER FLANGE
28	CIR CLIP (UPPER SIDE)
29	ROTOR FINISH
30	ROTOR KEY
31	CIR CLIP (ROTOR SIDE)
32	O' RING (LOWER SIDE)
33	LOWER HOUSING WITH BUSH
33.1	BEARING BUSH
33.2	LOWER HOUSING
34	COUTER THRUST BEARING SET
35	ALLEN BOLT
36	BEARING BASE PLATE
37	ROCKER
38	ROCKER LOCK NUT
39	PRESSURE CUP
40	MOTOR BASE
41	O' RING
42	WASHER
43	ALLEN BOLT

SUBMERSIBLE MOTOR

5" REWINDABLE MOTORS

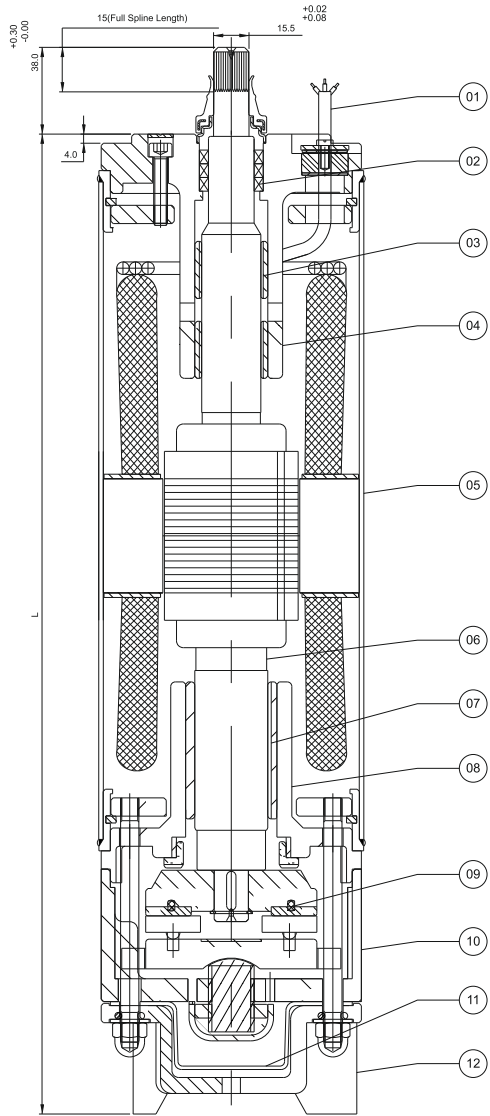
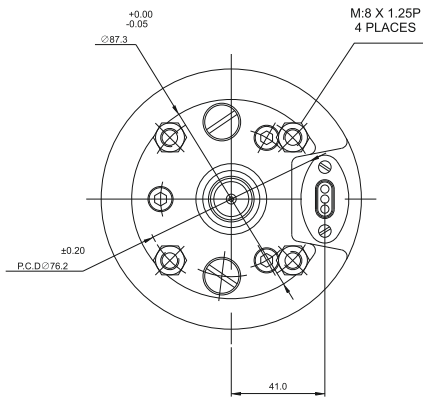
TECHNICAL SPECIFICATIONS:

- 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

SUBMERSIBLE MOTOR

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

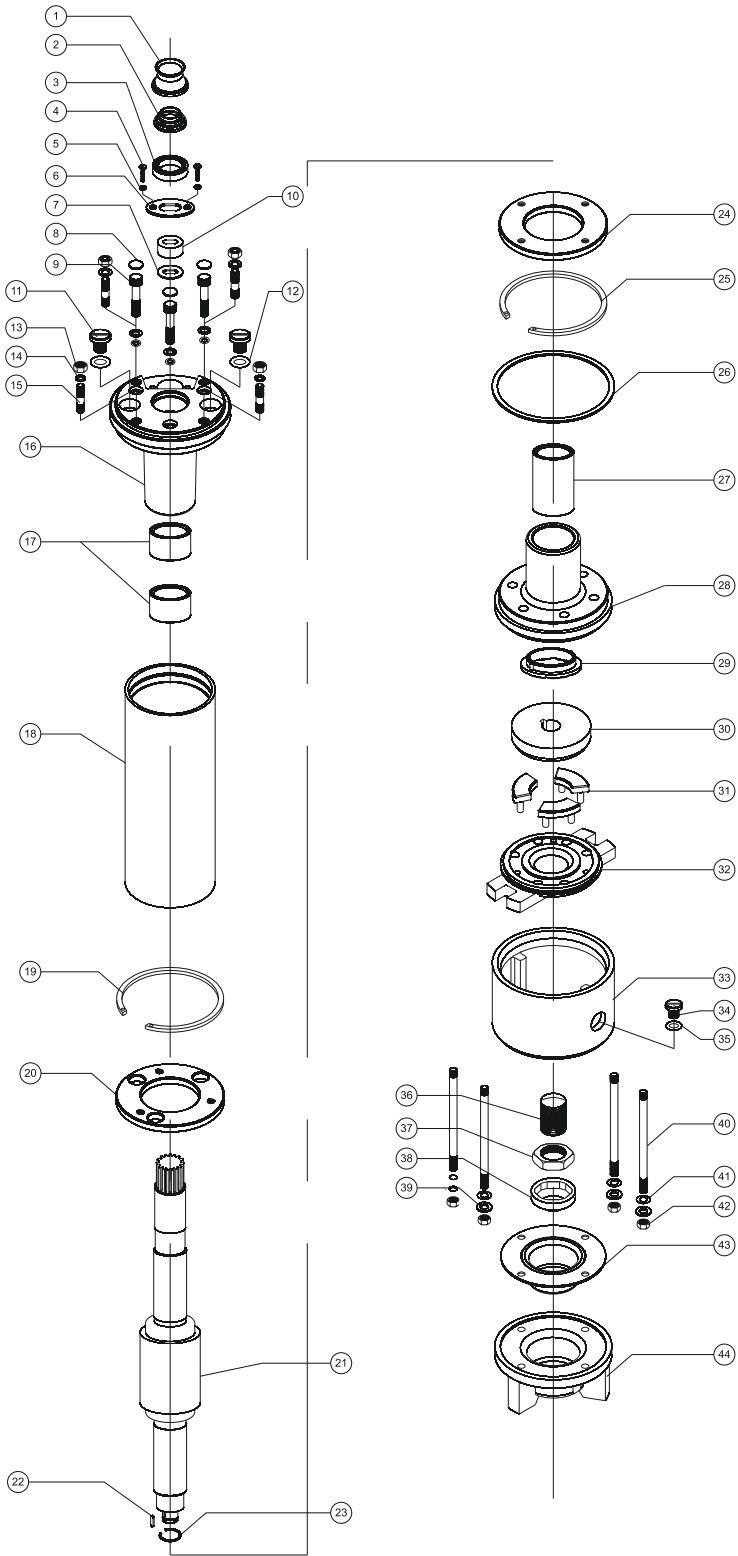
• cosφ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

• F[N] - Axial Thrust Load

Exploded Drawing of 5" Motor



No.	PARTS NAME
1	SAND GUARD
2	UPPER CAP
3	OIL SEAL
4	CABLE CLIP SCREW
5	CABLE CLIP SCREW WASHER
6	CABLE CLIP
7	CABLE GROMMET WASHER
8	ALLEN BOLT CAP
9	ALLEN BOLT
10	CABLE GROMMET
11	DRAIN PLUG
12	DRAIN PLUG 'O' RING
13	HEX NUT
14	UPPER STUD WASHER
15	UPPER STUD
16	UPPER HOUSING
17	BEARING BUSH
18	STATOR BODY
19	CIR CLIP
20	UPPER FLANGE
21	ROTOR
22	ROTOR KEY
23	ROTOR CIR CLIP
24	LOWER FLANGE
25	CIR CLIP
26	PAPER GASKET
27	BEARING BUSH
28	LOWER HOUSING
29	C.T BEARING
30	CARBON BEARING
31	SEGMENT
32	COUNTER
33	LOWER PART-2
34	DRAIN PLUG
35	DRAIN PLUG 'O' RING
36	ROCKER
37	ROCKER LOCK NUT
38	ROCKER LOCK NUT CAP
39	STUD WASHER
40	LOWER STUD
41	STUD 'O' RING
42	HEX NUT
43	PRESSURE CUP
44	MOTOR BASE

SUBMERSIBLE MOTOR

6" REWINDABLE MOTORS

TECHNICAL SPECIFICATIONS:

- 6" 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 : 30 times (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.

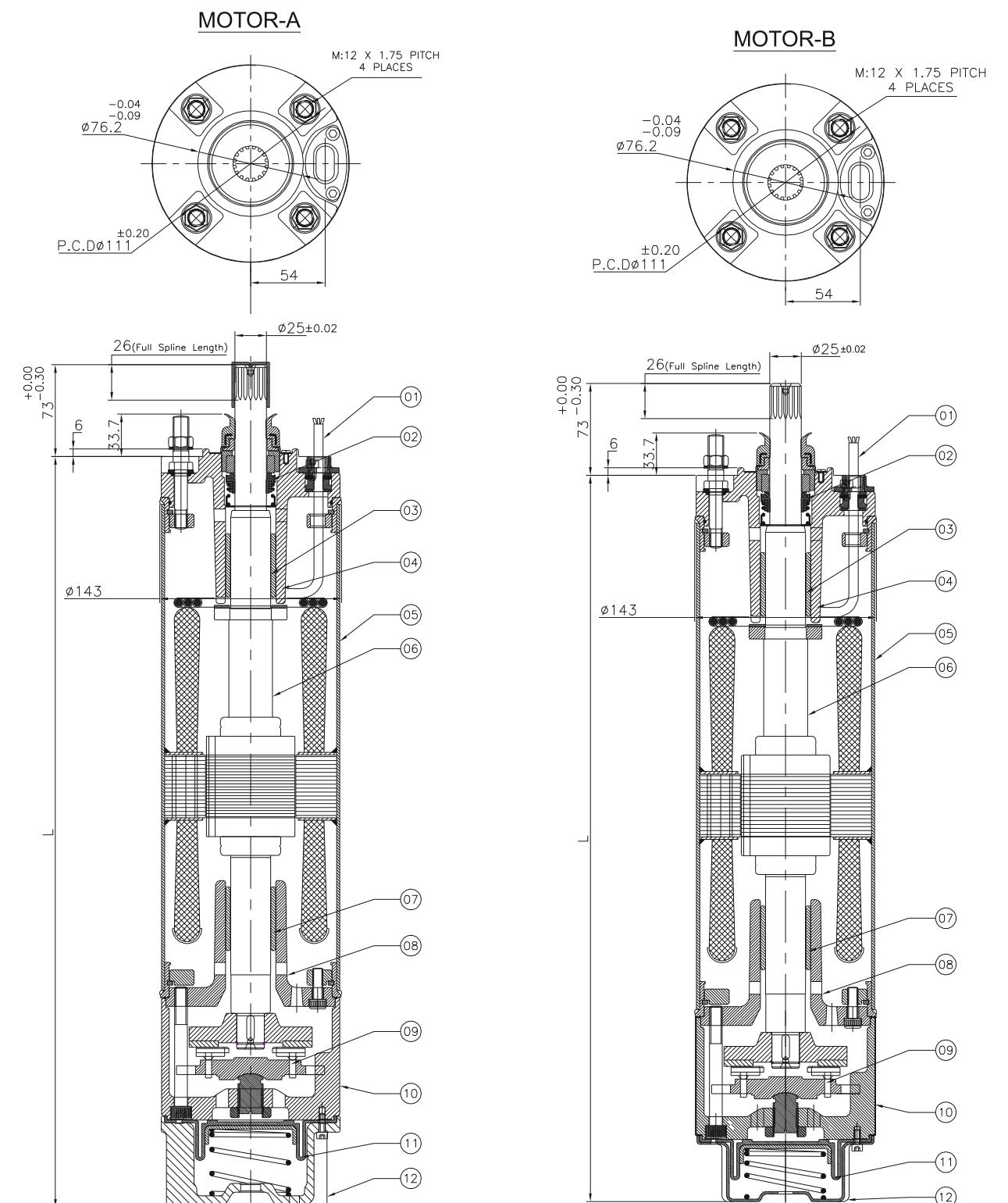
VERSIONS:

Three Phase : 2.20 kW To 37.5 kW / 380-415 Volt/ 50 Hz.

2.20 kW To 37.5 kW/ 230 - 380 - 460Volt /60 Hz.

Motors with other Voltage and frequency ratings are available on specific Demand.

6" REWINDABLE MOTOR



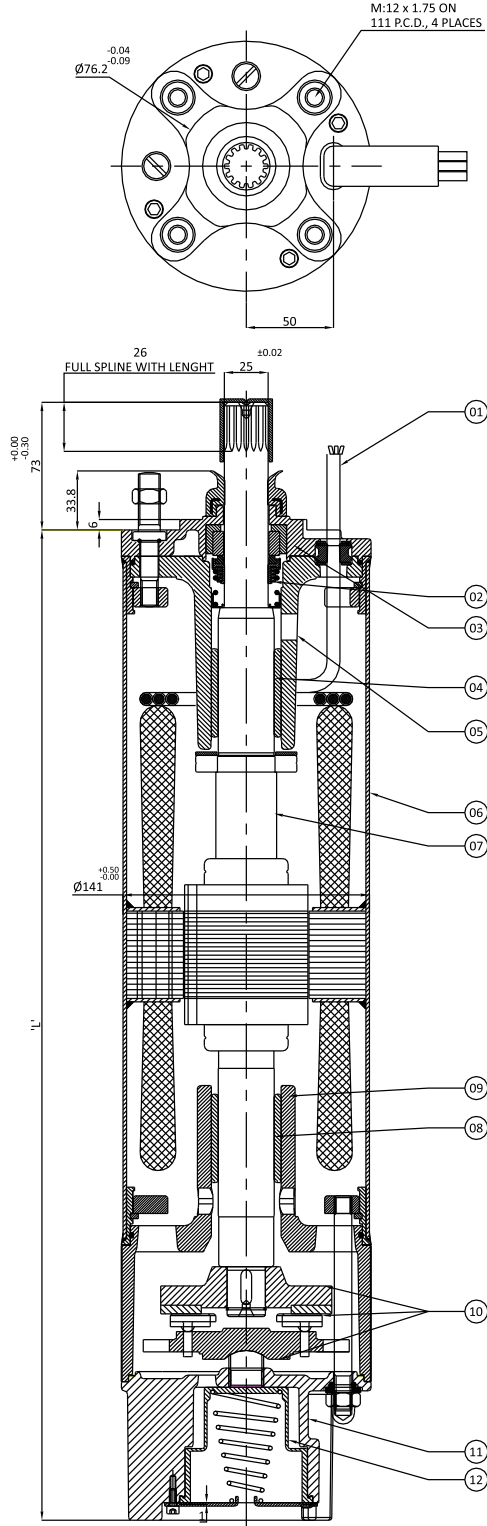
SUBMERSIBLE MOTOR

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

MOTOR-B		
SR NO.	PART'S NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	EPR
02	MECH. SEAL	CERAMIC CARBON
03	BEARING BUSH	CARBON
04	UPPER HOUSING	S.S.304 / CAST IRON WITH CLADED
05	MOTOR SHELL	S.S.304
06	ROTOR SHAFT	S.S.431
07	BEARING BUSH	CARBON
08	LOWER HOUSING	CAST IRON (F.G 200)
09	THRUST BEARING SET	CARBON / S.S.420
10	LOWER PART-2	CAST IRON WITH CLADED
11	PRESSURE CUP	H.B.R
12	MOTOR BASE	S.S.304
13	ALL HARDWARE	S.S.304

P _N		PW L [mm]	PW L [mm]	MOTOR WEIGHT [kg]		MOTOR WEIGHT (incl.pkg) [kg]	
[kW]	[HP]	C.I.	S.S.	S.S. 304	Cast Iron	S.S. 304	Cast Iron
2.2	3.00	657	637	24.0	20.0	27.0	24.0
3.7	5.00	667	647	39.0	35.0	42.7	39.4
4.1	5.50	682	662	43.0	39.0	46.7	43.4
5.5	7.50	747	727	46.0	49.0	51.2	54.2
7.5	10.00	777	757	50.0	54.0	54.2	57.8
9.3	12.50	803	787	53.0	59.0	56.8	63.0
11.0	15.00	847	827	61.0	63.0	64.8	66.6
13.0	17.50	897	877	64.0	67.0	67.7	70.7
15.0	20.00	937	917	70.0	71.0	74.6	75.2
18.5	25.00	992	972	76.0	80.0	79.8	83.5
22.0	30.00	1067	1047	90.0	90.0	94.2	94.3
26.0	35.00	1127	1107	94.0	97.0	98.0	101.0
30.0	40.00	1247	1227	102.0	100.0	108.0	105.0
37.0	50.00	1347	1347	127.5	125.5	133.5	130.5

V6 E2 SSSC MOTOR ASSEMBLY - C

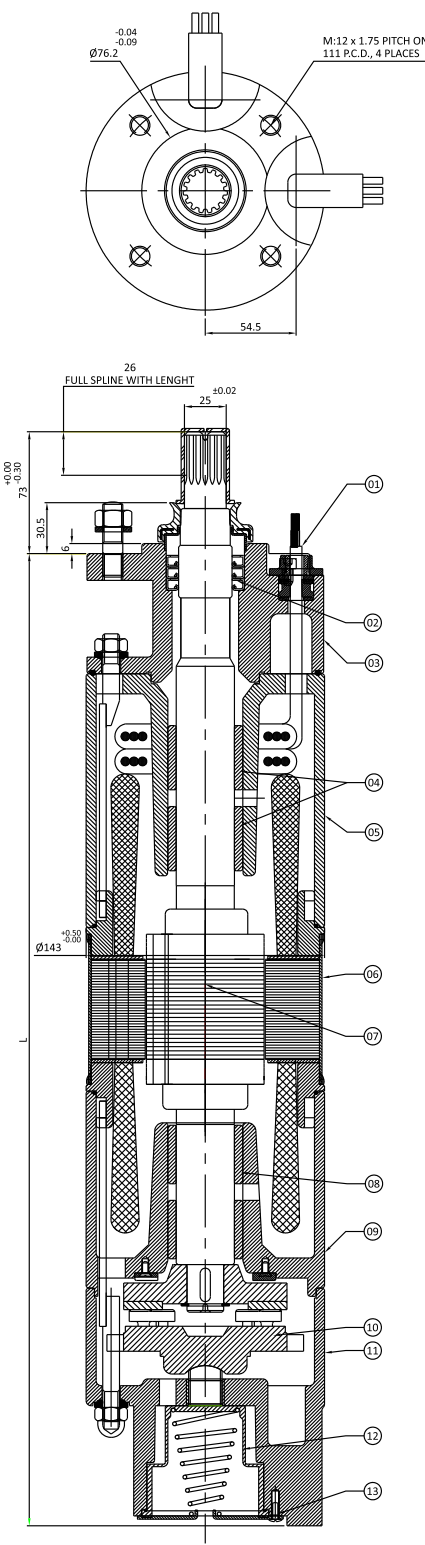


SR.NO.	PARTS NAME	MATERIAL
01	CABLE 3/4 CORE	E.P.R
02	MECH SEAL	CERAMIC CARBON
03	UPPER PLATE	S.S. 304
04	BEARING BUSH	CARBON
05	UPPER HOUSING	CAST IRON (F.G 200)
06	MOTOR SHELL	S.S.304
07	ROTOR SHAFT	S.S.431
08	BEARING BUSH	CARBON
09	LOWER HOUSING	CAST IRON (F.G 200)
10	THRUST BEARING SET	CARBON / S.S.420 UP TO 10 HP (4 SEGMENT) ABOVE 10 HP (6 SEGMENT)
11	MOTOR BASE	S.S.304
12	PRESSURE CUP	H.B.R
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)			
2.20	3.00	626	38.0	42.0
3.70	5.00	636	39.0	43.4
5.50	7.50	716	46.0	51.2
7.50	10.00	746	49.0	53.5
9.30	12.50	776	52.0	56.0
11.0	15.00	816	59.0	63.2
13.0	17.50	866	64.0	68.3
15.0	20.00	906	65.0	69.0
18.5	25.00	961	71.0	75.7
22.0	30.00	1036	81.0	85.4
26.0	35.00	1096	87.0	91.2
30.0	40.00	1216	98.0	102.5
37.0	50.00	1316	108.0	112.2

SUBMERSIBLE MOTOR

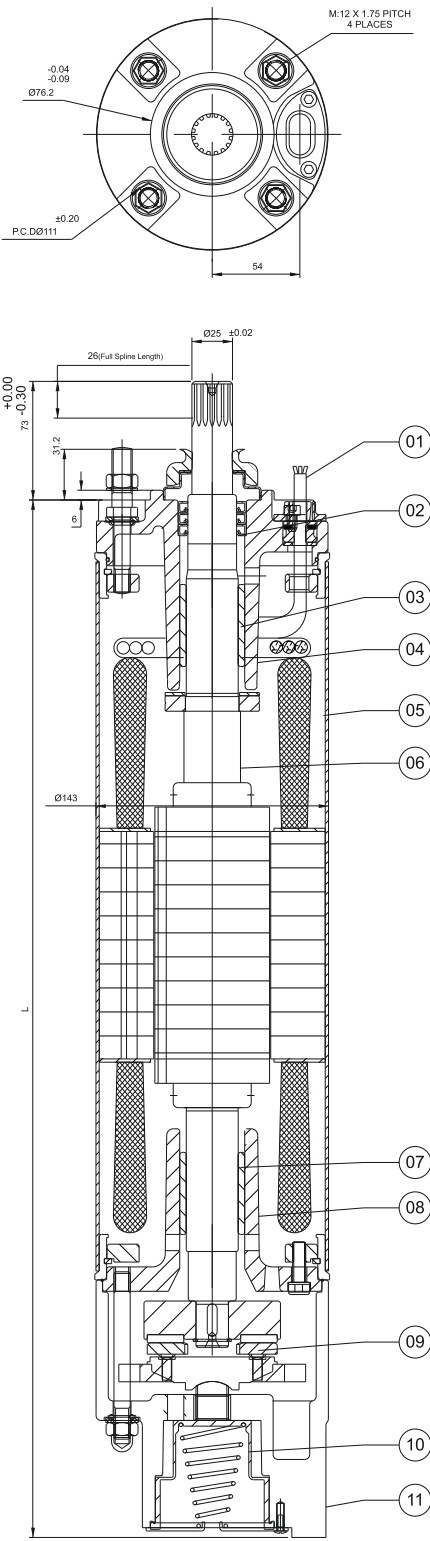
6" T-TYPE REWINDABLE MOTOR ASSEMBLY



SR NO.	PART'S NAME	MATERIAL
01	CABLE 3 CORE/4 CORE	E.P.R
02	OIL SEAL	N.B.R
03	ADOPTER	CAST IRON (F.G 200)
04	BEARING BUSH	CARBON
05	UPPER HOUSING	CAST IRON (F.G 200)
06	MOTOR SHELL	S.S.304
07	ROTOR SHAFT	S.S.431
08	BEARING BUSH	CARBON
09	LOWER HOUSING	CAST IRON (F.G 200)
10	THRUST BEARING SET	CARBON / S.S.420 3.0 TO 25.00 HP - 4 SEGMENT 30.00 TO 50.00 HP - 6 SEGMENT
11	MOTOR BASE	CAST IRON (F.G 200)
12	PRESSURE CUP	N.B.R
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
2.20	3.00	617	20.0	24.0
3.70	5.00	632	35.0	39.2
5.50	7.50	672	49.0	53.6
7.50	10.00	722	54.0	58.4
9.30	12.50	752	59.0	63.0
11.0	15.00	782	62.0	66.0
13.0	17.50	822	69.0	73.6
15.0	20.0	872	72.0	76.4
18.5	25.00	912	78.0	82.2
22.0	30.00	1042	80.0	84.2
26.0	35.00	1102	90.0	94.6
30.0	40.00	1222	102.0	106.4
37.0	50.00	1322	113.0	117.6

6" PRIME REWINDABLE MOTOR



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

P _N		PW L [mm] C.I.	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg) [kg]
[kW]	[HP]			
2.2	3.00	657	38.0	42.0
3.7	5.00	667	38.7	42.5
4.5	6.00	682	39.5	43.5
5.5	7.50	747	42.0	46.5
7.5	10.00	777	47.0	50.5
9.3	12.50	803	49.3	53.6
11.0	15.00	847	50.0	55.5
13.0	17.50	897	56.4	61.0
15.0	20.00	937	62.5	67.5
18.5	25.00	992	64.4	69.0

SUBMERSIBLE MOTOR

Technical Data of 6" 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		
3.00	2.2	15500	380	2845	6.21	21.7	62	61	62	0.68	0.70	0.72	7.41	10.63
			400	2875	6.30	22.2	61	63	65	0.64	0.70	0.71	7.30	11.78
			415	2875	6.51	23.1	59	66	67	0.61	0.69	0.71	7.30	12.66
5.50	4	15500	380	2915	10.39	47	71	74	76	0.60	0.71	0.77	13.11	15.50
			400	2935	10.61	50	69	73	76	0.54	0.66	0.74	13.11	17.31
			415	2935	10.90	52	66	72	76	0.50	0.60	0.70	13.00	18.82
7.50	5.5	15500	380	2865	13.71	47	73	76	76	0.68	0.79	0.83	18.31	15.40
			400	2885	13.30	50	72	76	76	0.62	0.75	0.81	18.20	17.30
			415	2890	13.41	54	72	75	75	0.60	0.71	0.79	18.10	18.70
10.0	7.5	15500	380	2870	18.29	58	77	78	78	0.70	0.80	0.83	25.10	19.20
			400	2890	17.70	63	76	78	78	0.66	0.75	0.81	24.80	21.40
			415	2890	17.70	64	73	74	77	0.62	0.74	0.81	24.80	23.40
12.5	9.3	15500	380	2855	22.00	75	79	80	79	0.70	0.80	0.83	31.11	25.91
			400	2860	21.30	77	79	79	78	0.63	0.75	0.81	31.00	29.00
			415	2885	21.10	81	77	79	78	0.60	0.72	0.82	30.91	31.42
15.0	11	15500	380	2865	25.79	93	77	80	78	0.71	0.80	0.84	36.60	31.50
			400	2880	25.21	97	77	80	80	0.66	0.75	0.83	36.40	35.30
			415	2890	25.10	101	75	78	80	0.61	0.73	0.81	36.30	38.10
17.5	13	15500	380	2885	30.11	117	79	81	80	0.69	0.79	0.83	43.20	45.00
			400	2900	29.60	126	78	80	81	0.62	0.75	0.80	42.70	50.20
			415	2905	29.71	131	77	79	81	0.58	0.70	0.77	42.60	54.50
20.0	15	15500	380	2880	33.91	140	80	82	81	0.72	0.82	0.85	49.71	53.80
			400	2895	33.10	147	80	81	81	0.66	0.78	0.84	49.40	60.30
			415	2900	33.00	155	78	80	81	0.61	0.74	0.82	49.20	65.40
25.0	18.5	15500	380	2870	42.31	171	80	82	81	0.68	0.79	0.84	61.72	75.21
			400	2880	42.00	182	77	80	81	0.61	0.73	0.81	61.22	84.30
			415	2895	42.49	188	76	80	80	0.58	0.71	0.78	61.00	91.20
30.0	22	15500	380	2875	49.11	217	82	83	84	0.69	0.78	0.83	72.62	91.10
			400	2900	49.00	231	80	82	83	0.61	0.74	0.81	72.48	102.10
			415	2910	49.59	239	76	81	82	0.57	0.68	0.78	72.20	110.60
35.0	26	15500	380	2890	57.49	267	82	84	83	0.69	0.79	0.85	86.10	120.40
			400	2905	56.72	283	81	82	83	0.60	0.74	0.84	85.50	134.80
			415	2910	57.30	295	77	83	83	0.56	0.70	0.81	85.20	146.20
40.0	30	27500	380	2895	66.39	329	81	84	83	0.68	0.77	0.84	98.82	135.00
			400	2910	66.42	346	80	82	82	0.61	0.74	0.81	98.41	151.00
			415	2910	67.50	360	77	81	82	0.56	0.69	0.78	98.22	164.00
50.0	37	27500	380	2890	82.00	406	82	83	83	0.68	0.79	0.83	122.00	192.70
			400	2910	81.92	432	81	82	83	0.60	0.73	0.81	121.50	215.70
			415	2910	83.91	449	78	80	82	0.56	0.67	0.77	121.20	234.10

- PN - Rated Output

• UN - Rated Voltage

• nN - RPM

• IN - Full Load Current

• IA - Starting Current
- η - Motor Efficiency

• cosϕ - Power Factor

• TN - Full Load Torque

• TA - Starting Torque

• F[N] - Axial Thrust Load

Technical Data of 6" Motors / 60 Hz

PN		P _{MAX} [kW]	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		
3.00	2.2	2.5	15500	230	3520	10	40	70	73	76	0.51	0.62	0.72	6.64	9.8
				380	3530	6.51	33	66	71	76	0.50	0.61	0.70	5.97	8.00
				460	3520	5.59	28	70	75	77	0.55	0.65	0.74	6.64	8.13
5.50	4	4.6	15500	230	3520	26.11	105	71	75	77	0.53	0.64	0.73	12.49	18.6
				380	3530	13.30	62	67	72	77	0.51	0.64	0.71	12.41	15.1
				460	3520	10.11	51	71	76	78	0.56	0.68	0.75	12.48	15.3
7.50	5.5	6.3	15500	230	3490	26.11	106	74	78	78	0.62	0.73	0.80	17.29	15.9
				380	3480	15.39	62	75	78	78	0.65	0.75	0.81	17.29	15.0
				460	3480	12.90	51	75	77	77	0.66	0.76	0.82	17.29	15.1
10.0	7.5	8.6	15500	230	3490	35.91	145	75	78	79	0.59	0.71	0.78	23.58	22.41
				380	3485	20.79	81	76	78	79	0.65	0.75	0.81	23.58	20.20
				460	3470	17.20	65	76	78	78	0.67	0.78	0.82	23.70	19.40
12.5	9.3	10.7	15500	230	3490	44.41	183	76	79	79	0.60	0.71	0.78	29.3	28.91
				380	3470	25.60	101	77	79	80	0.65	0.75	0.81	29.4	25.89
				460	3460	20.79	78	79	80	80	0.67	0.78	0.82	29.4	24.40
15.0	11	12.7	15500	230	3480	51.21	221	77	80	81	0.61	0.72	0.80	34.59	35.61
				380	3490	30.29	129	77	81	81	0.62	0.74	0.80	34.51	34.30
				460	3480	25.00	97	78	81	80	0.69	0.77	0.83	34.70	31.50
17.5	13	15.0	15500	230	3500	62.39	289	76	80	82	0.56	0.68	0.76	40.71	50.51
				380	3505	36.30	164	77	81	82	0.59	0.71	0.79	40.71	47.21
				460	3490	29.00	124	77	81	81	0.66	0.76	0.82	40.90	43.30
20.0	15	17.3	15500	230	3500	65.89	324	80	82	83	0.64	0.74	0.81	47.1	59.52
				380	3490	39.10	188	81	83	83	0.66	0.77	0.83	47.2	56.50
				460	3495	32.11	150	80	83	83	0.69	0.78	0.84	47.1	55.61
25.0	18.5	21.3	15500	230	3490	85.39	401	77	81	82	0.60	0.71	0.77	58.11	81.81
				380	3490	52.49	249	77	81	81	0.59	0.70	0.77	58.11	83.60
				460	3480	40.60	183	80	82	82	0.65	0.76	0.81	58.39	74.51
30.0	22	25.3	15500	230	3510	100.2	521	81	84	84	0.66	0.74	0.77	68.78	96.61
				380	3510	59.89	390	82	83	84	0.67	0.76	0.78	68.78	94.91
				460	3500	47.11	231	83	84	84	0.72	0.79	0.81	69.10	85.80
35.0	26	29.9	15500	230	3510	118.3	658	83	84	85	0.63	0.72	0.76	81.29	135.00
				380	3500	67.49	360	83	85	85	0.63	0.74	0.81	81.61	121.41
				460	3510	55.71	288	83	85	85	0.64	0.75	0.84	81.6	117.20
40.0	30	34.5	27500	230	3510	135.7	757	78	81	83	0.59	0.71	0.78	93.81	139.61
				380	3510	79.59	436	79	83	84	0.62	0.75	0.81	93.89	132.90
				460	3500	64.41	345	81	83	84	0.63	0.76	0.82	94.00	126.41
50.0	37.0	42.6	27500	230	3510	135.6	757	78	82	83	0.59	0.71	0.78	93.78	139.61
				380	3510	102.7	568	77	81	82	0.59	0.72	0.78	115.8	193.61
				460	3500	79.12	430	81	84	85	0.63	0.75	0.82	115.9	177.80

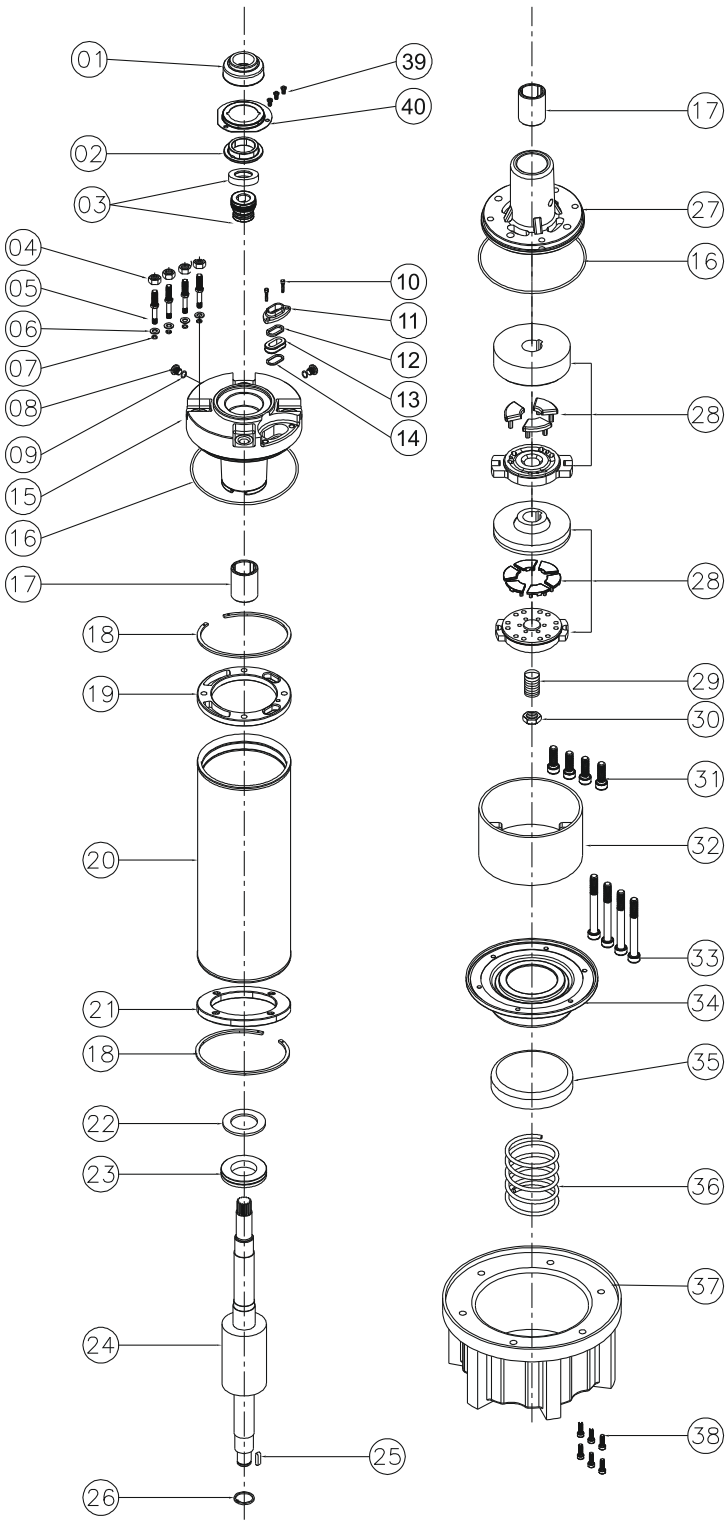
SUBMERSIBLE MOTOR

Technical Data of 6" Prime Motors / 50Hz

P _N		Thrust F [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]
[HP]	[kW]						50	75	100	50	75	100		
3.00	2.2	15500	380	2850	5.80	21.5	62	61	62	0.68	0.70	0.73	7.40	10.70
			400	2875	6.00	22.0	61	63	66	0.64	0.70	0.71	7.30	11.80
			415	2880	6.20	23.0	60	66	67	0.61	0.69	0.72	7.30	12.70
5.50	4	15500	380	2920	10.00	47	71	74	76	0.60	0.71	0.77	13.10	15.55
			400	2935	10.20	50	69	73	76	0.55	0.66	0.74	13.10	17.32
			415	2935	10.50	51	66	73	76	0.50	0.60	0.71	13.00	18.84
7.50	5.5	15500	380	2865	13.10	46	73	76	76	0.68	0.79	0.83	18.31	15.45
			400	2885	12.80	51	72	76	76	0.62	0.76	0.81	18.20	17.32
			415	2892	12.60	54	72	75	75	0.60	0.72	0.79	18.10	18.74
10.0	7.5	15500	380	2872	17.80	59	77	78	78	0.70	0.80	0.83	25.10	19.40
			400	2890	17.20	63	76	78	78	0.66	0.74	0.81	24.80	21.50
			415	2890	17.10	64	73	74	77	0.62	0.74	0.81	24.80	23.50
12.5	9.3	15500	380	2860	21.50	75	79	80	79	0.70	0.80	0.83	31.10	25.95
			400	2870	21.00	77	79	79	78	0.63	0.75	0.81	31.00	29.10
			415	2885	20.80	80	77	79	78	0.60	0.72	0.82	30.90	31.45
15.0	11	15500	380	2870	25.20	93	77	80	80	0.71	0.80	0.85	36.60	31.80
			400	2880	25.00	97	77	80	80	0.66	0.75	0.83	36.40	35.30
			415	2890	24.80	100	75	78	80	0.61	0.73	0.81	36.30	38.20
17.5	13	15500	380	2885	29.80	117	79	81	80	0.69	0.79	0.83	43.10	45.10
			400	2900	29.20	126	78	80	81	0.62	0.75	0.80	42.70	50.25
			415	2900	29.00	132	77	79	81	0.58	0.71	0.77	42.60	54.50
20.0	15	15500	380	2880	33.10	140	80	81	81	0.72	0.82	0.85	49.70	53.90
			400	2895	32.50	146	80	81	81	0.66	0.79	0.84	49.40	60.30
			415	2900	32.30	154	78	80	81	0.61	0.74	0.82	49.20	65.50
25.0	18.5	15500	380	2870	42.00	170	80	82	81	0.68	0.79	0.84	61.70	75.25
			400	2880	41.50	182	77	80	81	0.61	0.73	0.81	61.22	84.35
			415	2895	42.20	188	76	80	80	0.58	0.71	0.79	61.00	91.30

- 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

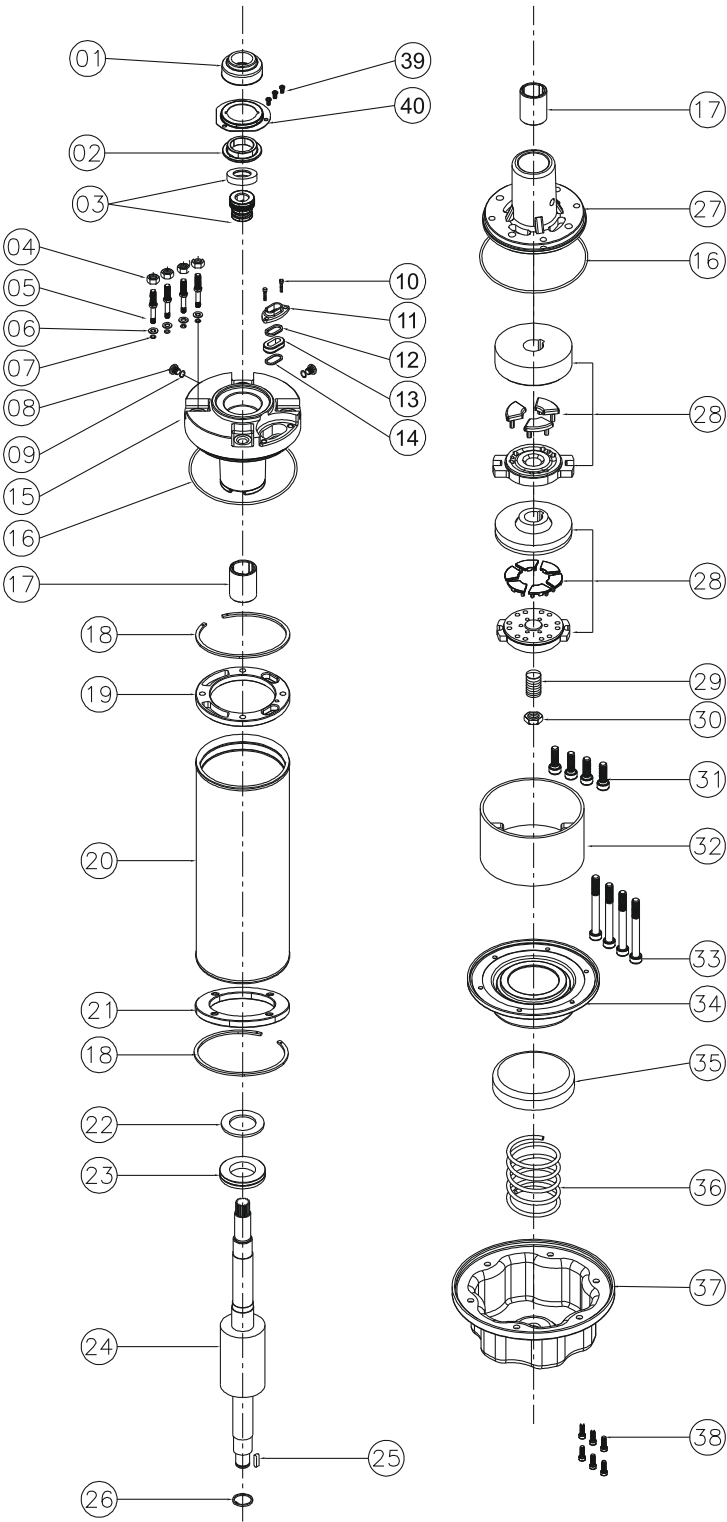
Exploded Drawing of 6" Motor-A



No.	PARTS NAME
1	SAND GUARD
2	UPPER COLLER
3	MECH.SEAL
4	NUT
5	STUD
6	STUD WASHER
7	STUD "O" RING
8	DRAIN PLUG
9	DRAIN PLUG "O" RING
10	ALLEN BOLT
11	CABLE PROTECTOR CAP
12	PLASTIC GROMMET WASHER
13	RUBBER GROMMET
14	S.S. GROMMET WASHER
15	UPPER HOUSING
16	'O' RING(UPPER & LOWER)
17	BEARING BUSH
18	CIR CLIP
19	UPPER FLANGE
20	STATOR BODY
21	LOWER FLANGE
22	TEFLON WASHER
23	THRUST RING
24	ROTOR SHAFT
25	ROTOR KEY
26	CIR CLIP BEARING SIDE
27	LOWER HOUSING
28	THRUST BEARING SET (UP TO 10.0 H.P)
	THRUST BEARING SET (ABOVE 10.0 H.P)
29	ROCKER
30	ROCKER LOCK NUT
31	ALLEN BOLT LOWER SIDE
32	LOWER PART-2
33	ALLEN BOLT LOWER PART-2 SIDE
34	PRESSURE CUP
35	SPRING JACKET
36	SPRING
37	MOTOR BASE
38	ALLEN BOLT MOTOR BASE SIDE
39	UPPER CAP
40	UPPER CAP SCREW

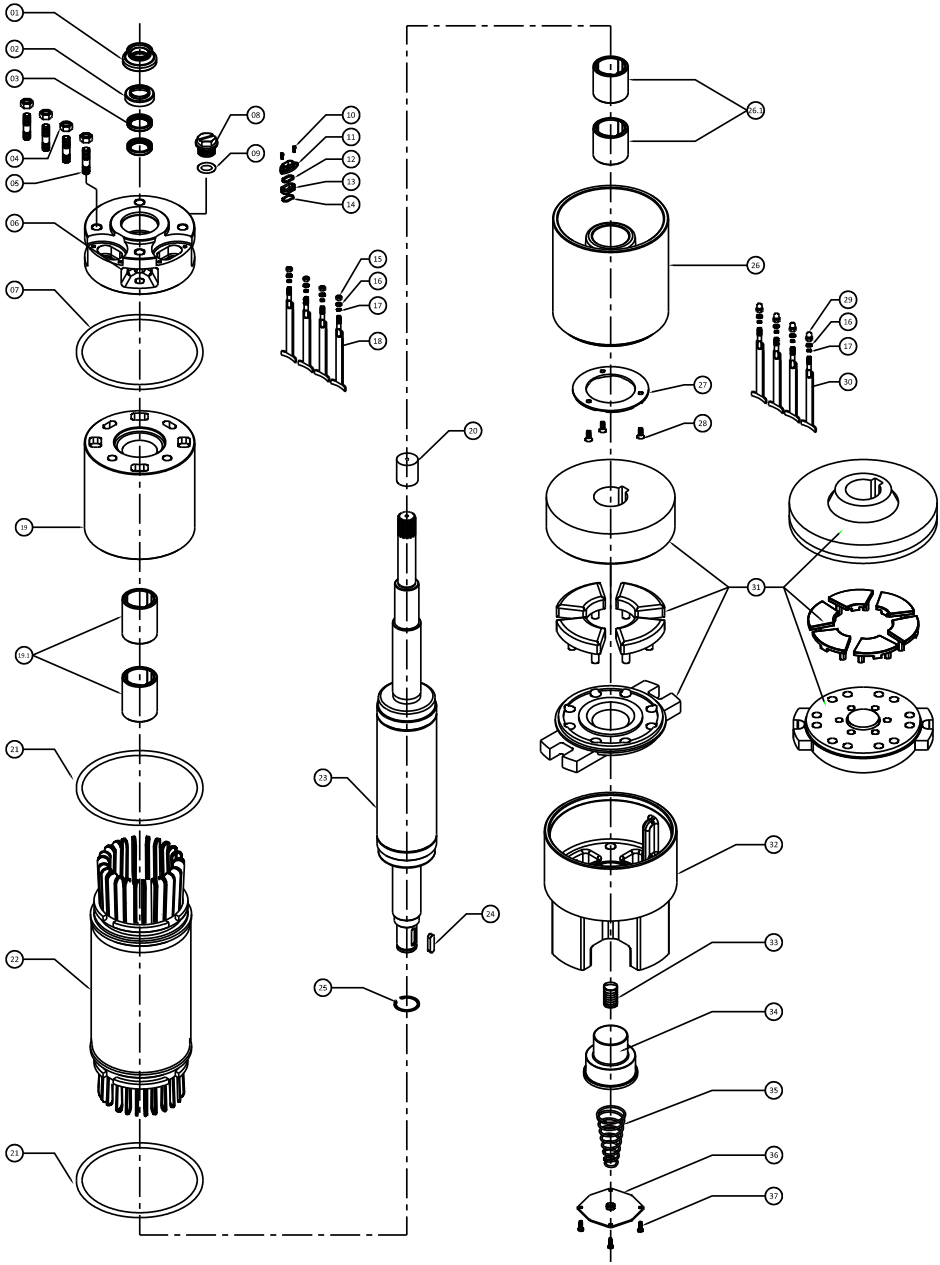
SUBMERSIBLE MOTOR

Exploded Drawing of 6" Motor-B



No.	PARTS NAME
1	SAND GUARD
2	UPPER COLLER
3	MECH.SEAL
4	NUT
5	STUD
6	STUD WASHER
7	STUD "O" RING
8	DRAIN PLUG
9	DRAIN PLUG "O" RING
10	ALLEN BOLT
11	CABLE PROTECTOR CAP
12	PLASTIC GROMMET WASHER
13	RUBBER GROMMET
14	S.S. GROMMET WASHER
15	UPPER HOUSING
16	'O' RING(UPPER & LOWER)
17	BEARING BUSH
18	CIR CLIP
19	UPPER FLANGE
20	STATOR BODY
21	LOWER FLANGE
22	TEFLON WASHER
23	THRUST RING
24	ROTOR SHAFT
25	ROTOR KEY
26	CIR CLIP BEARING SIDE
27	LOWER HOUSING
28	THRUST BEARING SET (UP TO 10.0 H.P)
	THRUST BEARING SET (ABOVE 10.0 H.P)
29	ROCKER
30	ROCKER LOCK NUT
31	ALLEN BOLT LOWER SIDE
32	LOWER PART-2
33	ALLEN BOLT LOWER PART-2 SIDE
34	PRESSURE CUP
35	SPRING JACKET
36	SPRING
37	MOTOR BASE
38	ALLEN BOLT MOTOR BASE SIDE
39	UPPER CAP
40	UPPER CAP SCREW

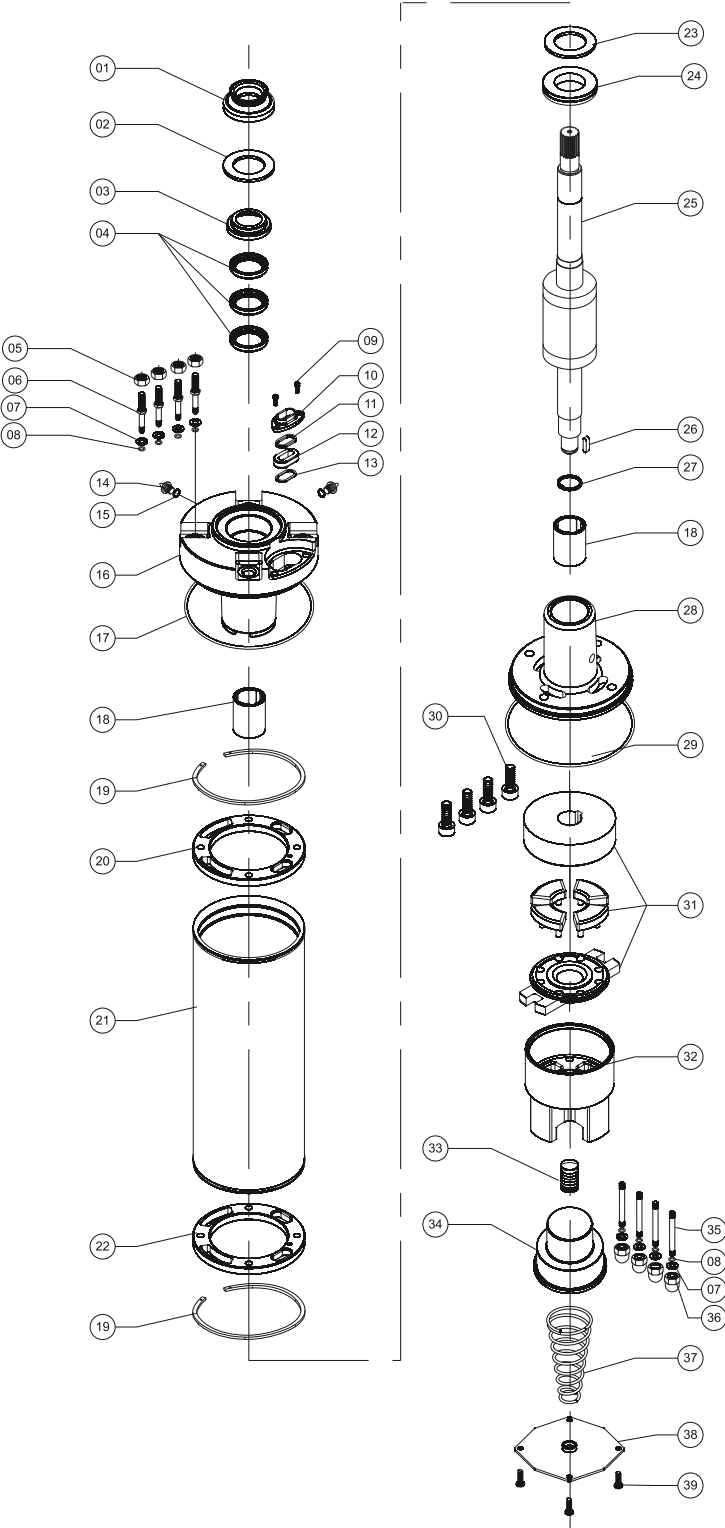
Exploded Drawing of 6" T-Type Motor



NO.	PARTS NAME
1.	SAND GUARD
2.	UPPER CAP
3.	OIL SEAL
4.	HEX NUT
5.	STUD
6.	ADOPTER
7.	ADOPTER 'O' RING
8.	DRAIN PLUG
9.	DRAIN PLUG 'O' RING
10.	ALLEN BOLT
11.	CABLE PROTECTOR CLIP
12.	PLASTIC GROMMET WASHER
13.	CABLE GROMMET
14.	S.S. GROMMET WASHER
15.	NYLOCK NUT
16.	WASHER (FOR UPPER T-BOLT)
17.	'O' RING (FOR UPPER T- BOLT)
18.	T-BOLT (UPPER SIDE)
19.	UPPER HOUSING
19.5.	BEARING BUSH
20.	ROTOR CAP
21.	'O' RING FOR STATOR FLANGE
22.	STATOR BODY
23.	ROTOR FINISH
24.	KEY (FOR BEARING SIDE)
25.	ROTOR CIR CLIP
26.	LOWER HOUSING
26.1	BEARING BUSH
27.	C.T. BEARING PLATE
28.	C.S.K. SCREW (FOUR WAY)
29.	DOME NUT
30.	'T' BOLT (LOWER SIDE)
31.	THRUST BEARING SET
32.	MOTOR BASE
33.	ROCKER
34.	PRESSURE CUP
35.	SPRING
36.	MOTOR BASE PLATE
37.	SCREW

SUBMERSIBLE MOTOR

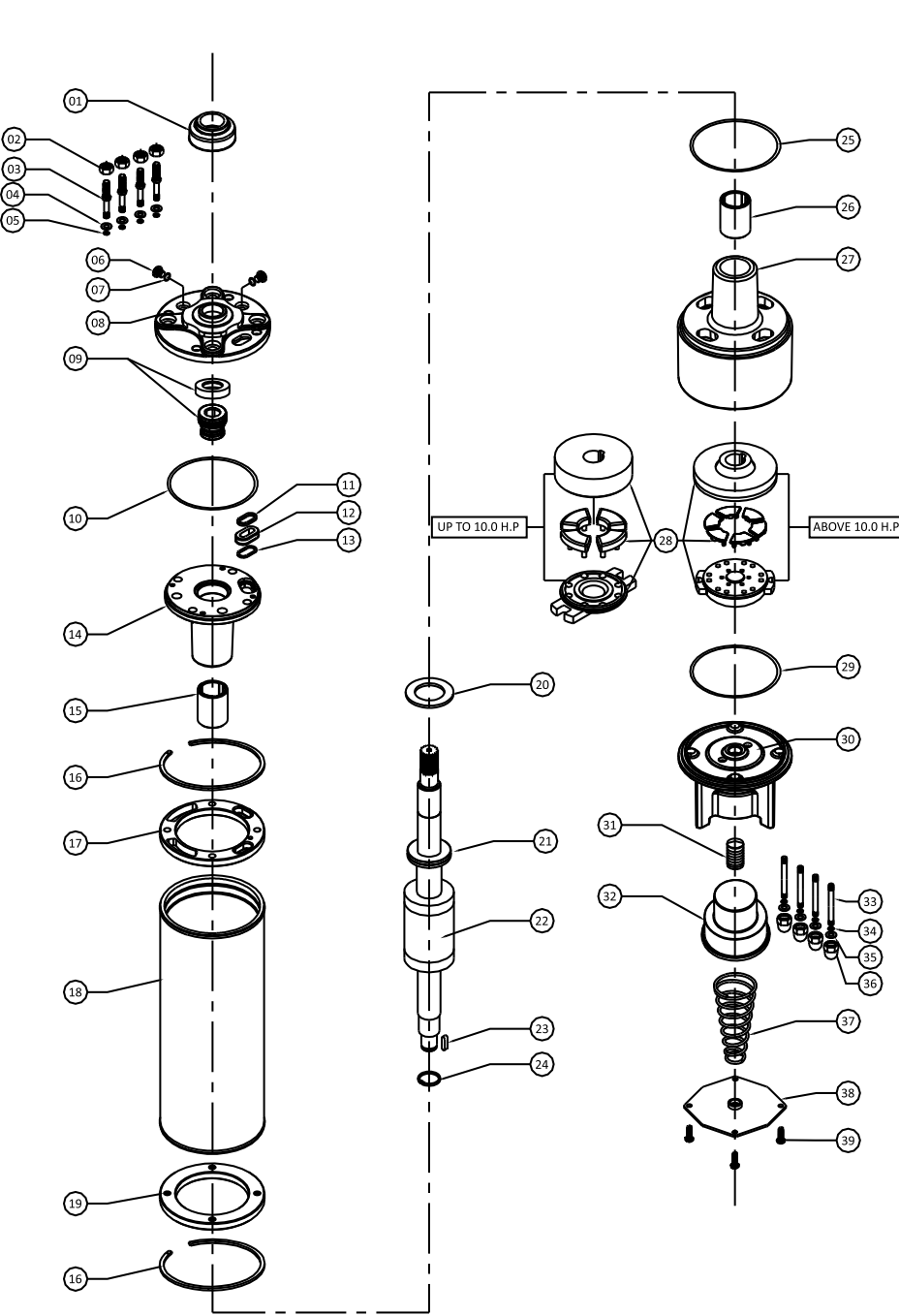
Exploded Drawing of 6" Prime Motor



No.	PARTS NAME
1	SAND GUARD
2	TEFLON WASHER
3	UPPER CAP
4	OIL SEAL
5	HEX NUT
6	STUD
7	STUD WASHER
8	STUD "O" RING
9	ALLEN BOLT
10	CABLE PROTECTOR CAP
11	PLASTIC GROMMET WASHER
12	RUBBER GROMMET
13	S.S. GROMMET WASHER
14	DRAIN PLUG
15	'O' RING(DRAIN PLUG)
16	UPPER HOUSING
17	'O' RING
18	BEARING BUSH
19	CIRCLIP
20	UPPER FLANGE
21	STATOR BODY
22	LOWER FLANGE
23	TEFLON WASHER
24	THRUST RING
25	ROTOR FINISH
26	KEY
27	CIRCLIP
28	LOWER HOUSING
29	'O' RING
30	ALLEN BOLT
31	THRUST BEARING SET
32	MOTOR BASE
33	ROCKER
34	PRESSURE CUP
35	LOWER STUD
36	DOM NUT
37	SPRING
38	MOTOR BASE PLATE
39	SCREW

SUBMERSIBLE MOTOR

V6 E2 SSSC MOTOR ASSEMBLY - C



NO.	PARTS NAME
1.	SAND GUARD
2.	HEX NUT
3.	UPPER STUD
4.	STUD WASHER
5.	STUD 'O' RING
6.	DRAIN PLUG
7.	DRAIN PLUG 'O' RING
8.	UPPER PLATE
9.	MECH. SEAL
10.	'O' RING UPPER PLATE
11.	S.S. GROMMET WASHER
12.	CABLE GROMMET
13.	S.S. GROMMET WASHER
14.	UPPER HOUSING
15.	CARBON BUSH
16.	CIR CLIP
17.	UPPER FLANGE
18.	STATOR BODY
19.	LOWER FLANGE
20.	TEFLON WASHER
21.	THRUST RING
22.	ROTOR FINISH
23.	ROTOR KEY
24.	CIR CLIP (THRUST BEARING SIDE
25.	'O' RING (LOWER HOUSING)
26.	CARBON BUSH
27.	LOWER HOUSING (WITH JACKET)
28.	THRUST BEARING
29.	RUBBER GASKET
30.	MOTOR BASE
31.	ROCKER
32.	PRESSURE CUP
33.	LOWER STUD
34.	'O' RING
35.	WASHER
36.	DOME NUT
37.	SPRING
38.	MOTOR BASE PLATE
39.	ALLEN BOLT

SUBMERSIBLE MOTOR

7" REWINDABLE MOTORS

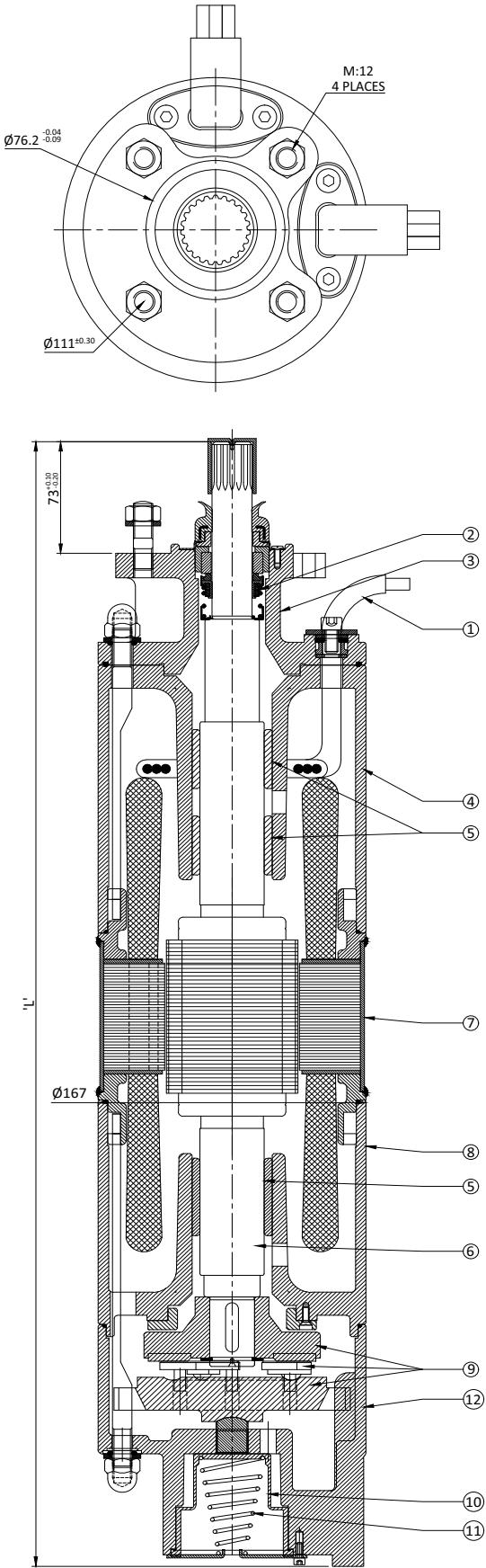
TECHNICAL SPECIFICATIONS:

- 7" 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 : 37 kW To 52 kW / 380-415 Volt /50 Hz
Motor With Other Voltage and frequency ratings are available on specific Demand.

7" REWINDABLE MOTOR



SR. NO.	PARTS NAME	MATERIAL
01	CABLE 3 CORE/4CORE	EPR/PV.C
02	MECH. SEAL	CERAMIC / CARBON
03	ADOPTER	CAST IRON (FG-200)
04	UPPER HOUSING	CAST IRON (FG-200)
05	BEARING BUSH	CARBON
06	ROTOR SHAFT	S.S. 431
07	MOTOR SHELL	S.S. 304
08	LOWER HOUSING	CAST IRON (FG-200)
09	THRUST BEARING SET	CARBON / S.S. 420
10	PRESSURE CUP	H.B.R
11	SPRING	S.S. 304 (SPRING STEEL)
12	MOTOR BASE	CAST IRON (FG-200)
13	ALL HARDWARE	S.S. 304

50 Hz / 60 Hz				
P _N		PW	MOTOR WEIGHT	MOTOR WEIGHT
[kW]	[HP]	L [mm] C.I.	[kg]	(incl.pkg) [kg]
37.0	50.00	1202.00	135	149
45.0	60.00	1267.00	152	167
55.0	75.00	1367.00	177	195

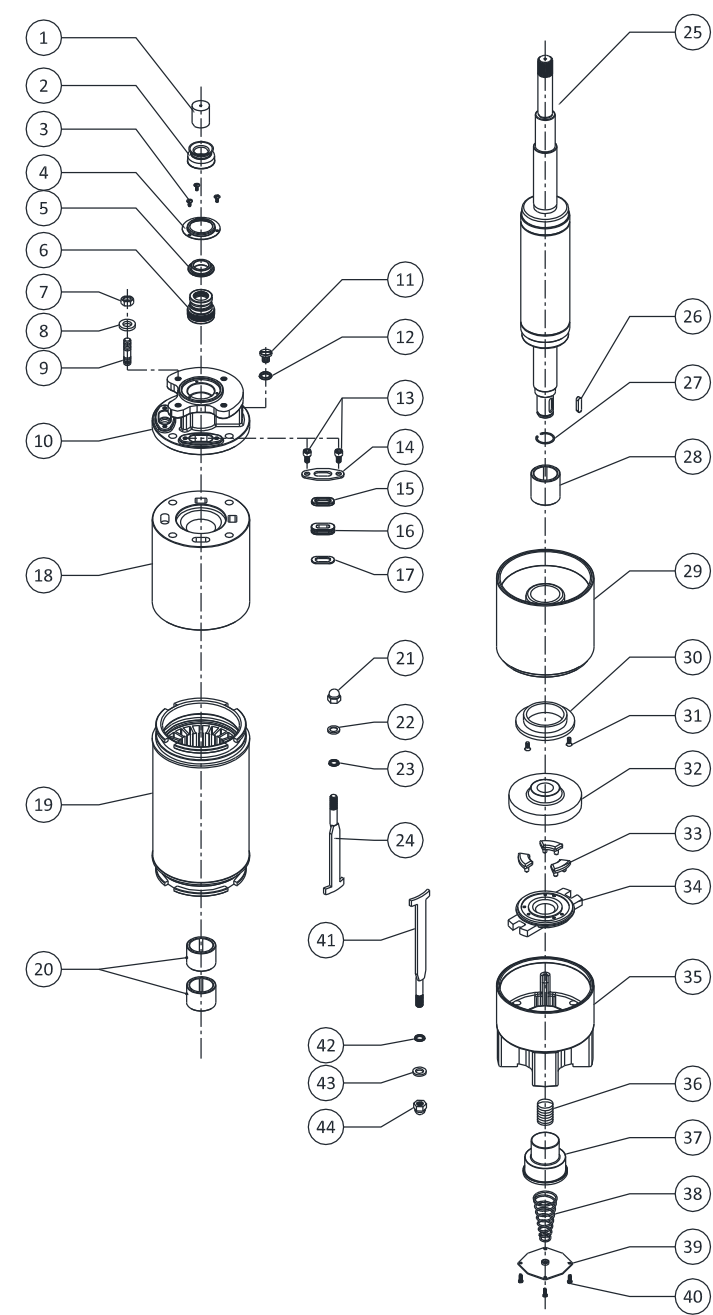
SUBMERSIBLE MOTOR

Performance Data of 7" Rewindable Aqualite Submersible 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		
50	37		380	2875	77	393	84.0	84.5	84.2	0.78	0.81	0.81	128	218
		45000	400	2880	76	426	84.6	85.3	85.0	0.75	0.81	0.80	128	218
			415	2885	75	450	84.5	85.2	85.0	0.72	0.80	0.80	127	201
60	45		380	2878	94	489	85.4	86.5	85.2	0.80	0.85	0.88	155	263
		45000	400	2880	92	525	85.2	86.2	86.0	0.75	0.82	0.85	155	263
			415	2890	91	555	84.4	86.5	86.1	0.72	0.82	0.82	154	246
75	55		380	2875	112	571	84.8	85	85	0.80	0.82	0.85	190	323
		45000	400	2885	111	644	84.6	85.1	85	0.75	0.82	0.85	189	321
			415	2890	110	669	84.5	85.7	85.5	0.72	0.82	0.82	189	302

- PN - Rated Output
 - UN - Rated Voltage
 - n N - RPM
 - I N - Full Load Current
 - I A - Starting Current
- h - Motor Efficiency
 - cosØ - Power Factor
 - TN - Full Load Torque
 - T A - Starting Torque
 - F [N]- Axial Thrust Load

7" Motor assembly (50, 60, 70 HP) Exploded view



NO.	PARTS NAME
1.	ROTOR CAP
2.	SAND GUARD
3.	UPPER CAP SCREW
4.	UPPER CAP
5.	UPPER COLLER
6.	MECHANICAL SEAL
7.	M12 NUT
8.	SPRING WASHER
9.	M12 STUD
10.	ADOPTER
11.	DRAIN PLUG
12.	DRAIN PLUG O RING
13.	M8 ALLEN BOLT
14.	CABLE CLIP
15.	PLASTIC GROMMET WASHER
16.	CABLE GROMMET
17.	SS GROMMET WASHER
18.	UPPER HOUSING
19.	STATOR ASSEMBLY
20.	CARBON BUSH
21.	M12 DOME NUT
22.	WASHER
23.	O RING
24.	T BOLT
25.	ROTOR
26.	KEY
27.	CIRCLIP
28.	CARBON BUSH
29.	LOWER HOUSING
30.	CT BEARING
31.	SCREW
32.	CARBON PLATE
33.	SEGMENT
34.	BEARING PLATE
35.	MOTOR BASE
36.	ROCKER
37.	PRESSURE CUP
38.	SPRING
39.	MOTOR BASE PLATE
40.	SCREW
41.	T BOLT
42.	O RING
43.	WASHER
44.	DOME NUT

SUBMERSIBLE MOTOR

8" REWINDABLE MOTORS

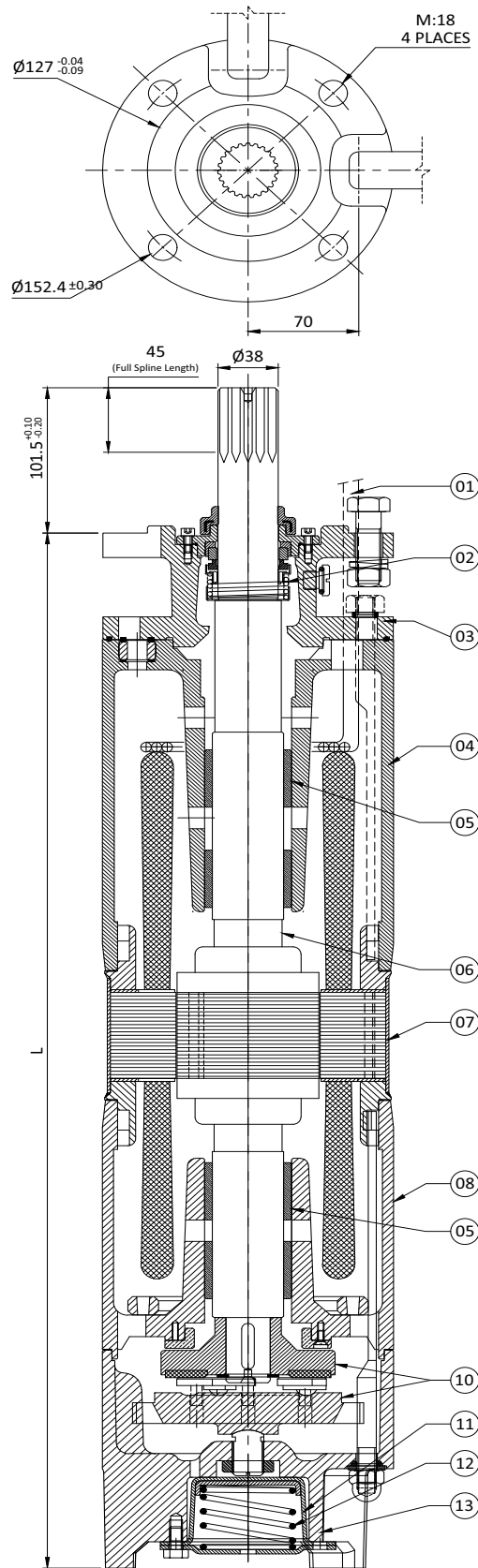
TECHNICAL SPECIFICATIONS:

- 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

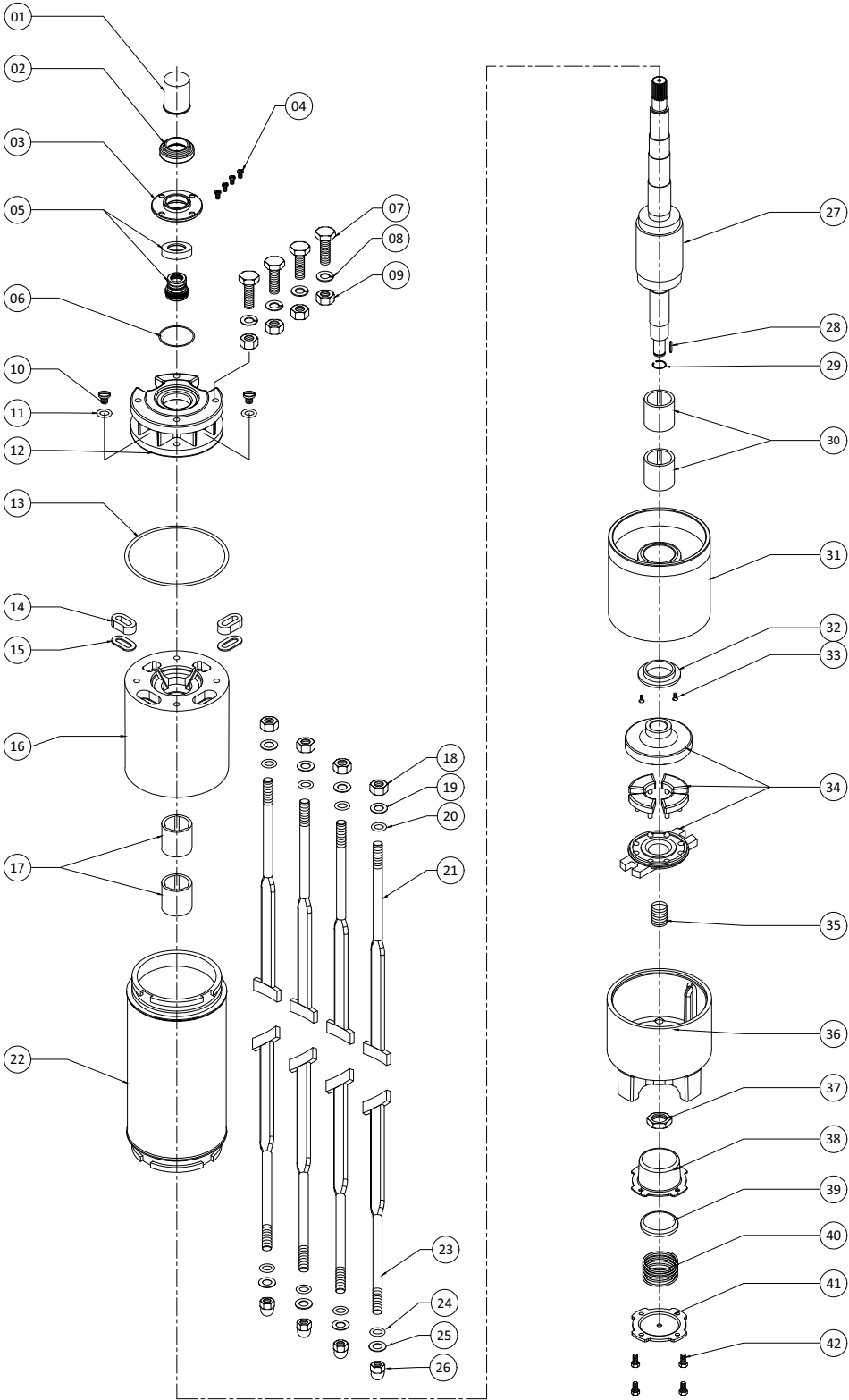
PN		Thrust Load [N]	UN [V]	nN [min-1]	IN [A]	IA [A]	η (Eff.) [%] at % load			cos φ (PF) at % load			TN [Nm]	TA [Nm]
[H.P.]	[kW]						50	75	100	50	75	100		
40.0	30	45000	380	2885	63.10	301	83.4	84.4	83.2	0.88	0.88	0.89	99.1	126
			400	2900	60.00	317	83.5	85.0	84.4	0.80	0.85	0.89	99.0	141
			415	2910	58.00	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

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	86.5	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

- PN - Rated Output
 - UN - Rated Voltage
 - nN - RPM
 - IN - Full Load Current
 - IA - Starting Current
- η - Motor Efficiency
 - cosϕ - Power Factor
 - TN - Full Load Torque
 - TA - 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)

SUBMERSIBLE MOTOR

9" REWINDABLE MOTORS

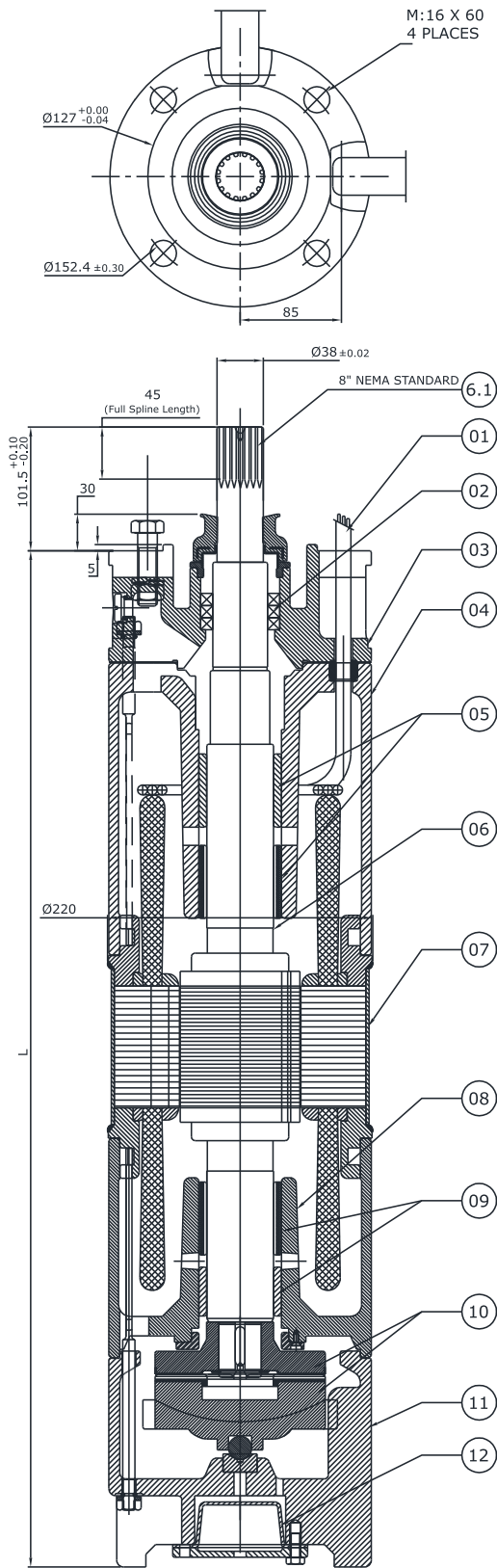
TECHNICAL SPECIFICATIONS:

- 9" Water Lubricated Submersible Motors are rewindable.
- Coupling dimensions: 8" NEMA standard.
- Winding wire: PVC winding
- 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
- Motor Cable length : 3 Meter / 3 Core with separate earth cable.
- Cooling Flow : V:0.2 M/S.
- Coolant : Clear Water.

VERSIONS:

Three Phase : 45 kW To 93 kW / 380-415 Volt /50 Hz
Motor With Other Voltage and frequency ratings are available on specific Demand.

9" REWINDABLE MOTORS



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	STAINLESS STEEL
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	MOTOR BASE	CAST IRON (FG-200)
12	PRESSURE CUP	N.B.R
13	ALL HARDWARE	S.S.304

P _N		PW L [mm] Cast Iron	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg) [kg]
[kW]	[HP]		Cast Iron	Cast Iron
45.0	60.00	1235.0	165.0	183.0
52.0	70.00	1365.0	262.0	342.0
55.0	75.00	1365.0	262.0	342.0
67.0	90.0	1435.0	275.0	355.0
75.0	100.0	1505.0	300.0	360.0
93.0	125.0	1505.0	300.0	360.0

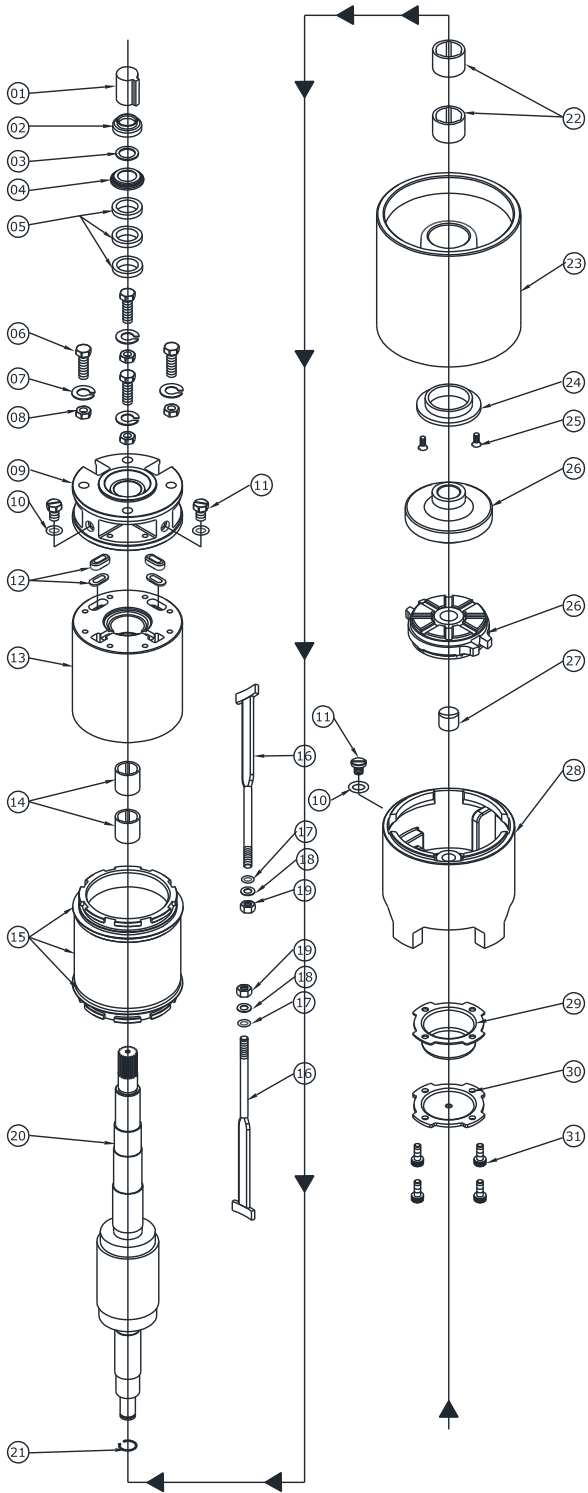
SUBMERSIBLE MOTOR

Technical Data of 9" 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		
60	45	45000	380	2905	93.1	490	86.0	86.2	85.3	0.80	0.87	0.89	155	219
			400	2915	90	520	85.5	86.4	85.9	0.75	0.84	0.87	154	241
			415	2920	88	540	84.8	86.3	85.7	0.70	0.80	0.85	154	262
75	55	45000	380	2910	114	624	86.8	87.0	85.6	0.79	0.85	0.89	193	301
			400	2915	110	660	85.9	86.9	86.3	0.73	0.83	0.87	193	341
			415	2920	108	687	84.9	87.1	86.1	0.66	0.79	0.86	193	367
100	75	45000	380	2905	153	891	86.8	87.2	85.8	0.78	0.85	0.88	258	420
			400	2920	148	942	86.2	87.4	86.8	0.75	0.84	0.85	257	471
			415	2915	146	983	85.5	86.8	86.5	0.68	0.78	0.84	257	511
125	93	45000	380	2905	187	1185	87.9	88.5	87.7	0.78	0.84	0.87	305	558
			400	2915	182	1275	87.3	88.4	87.8	0.72	0.82	0.86	304	627
			415	2925	183	1309	86.3	87.7	87.6	0.66	0.77	0.84	304	677

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

Exploded Drawing of 9" Motor



Sr.No.	PARTS NAME
01	ROTOR CAP
02	SAND GUARD
03	TEFLON WASHER
04	UPPER CAP
05	OIL SEAL
06	HEX BOLT
07	SPRING WASHER
08	HEX NUT
09	ADOPTOR
10	DRAIN PLUG 'O' RING
11	DRAIN PLUG
12	GROMMET & WASHER
13	UPPER HOUSING
14	BEARING BUSH
15	STATOR BODY FINISH FLANGE (USE FOR UPPER & LOWER SIDE)
16	T-BOLT(UPPER SIDE) T-BOLT(LOWER SIDE)
17	T-BOLT 'O'RING
18	T-BOLT WASHER
19	NYLOCK NUT
20	ROTOR FINISH
21	CIR CLIP(USE FOR ROTOR)
22	BEARING BUSH
23	LOWER HOUSING
24	C.T BEARING
25	C.S.K SCREW
26	COUNTER BEARING
27	FIX ROCKER
28	MOTOR BASE
29	PRESSURE CUP
30	MOTOR BASE PLATE
31	HEX BOLT

SUBMERSIBLE MOTOR

10" REWINDABLE MOTORS

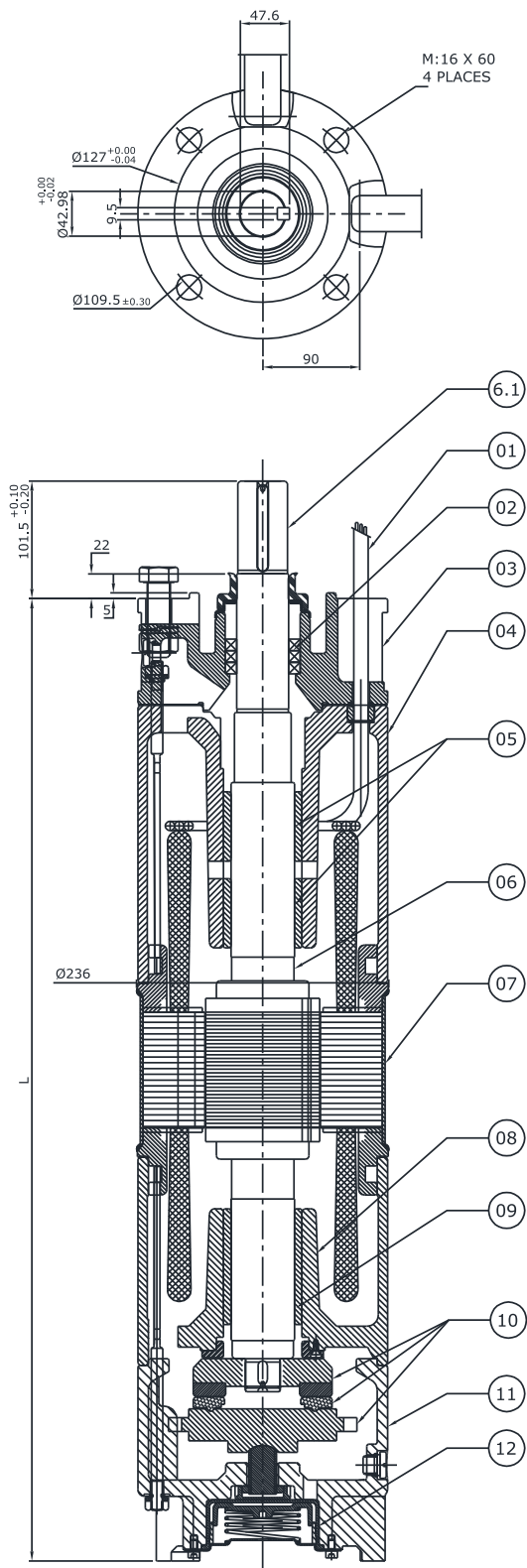
TECHNICAL SPECIFICATIONS:

- 10" Water Lubricated Submersible Motors are rewindable.
- Coupling dimensions: 8" NEMA standard.
- Winding wire: PVC winding
- 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
- Motor Cable length : 3 Meter / 3 Core with separate earth cable.
- Cooling Flow : V:0.2 M/S.
- Coolant : Clear Water.

VERSIONS:

Three Phase : 110 kw to 150 kw / 380-415 Volt /50 Hz
Motor With Other Voltage and frequency ratings are available on specific Demand.

10" REWINDABLE MOTORS



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.
06	ROTOR SHAFT	SS 420
07	MOTOR SHELL	STAINLESS STEEL
08	LOWER HOUSING	CAST IRON (FG-200)
09	BEARING BUSH	LTB-4 2% Ni.
10	THRUST BEARING SET	CARBON / S.S.420
11	MOTOR BASE	CAST IRON (FG-200)
12	PRESSURE CUP	N.B.R
13	ALL HARDWARE	S.S.304

P _N		PW L [mm]	MOTOR WEIGHT [kg]	MOTOR WEIGHT (incl.pkg) [kg]
[kW]	[HP]	Cast Iron	Cast Iron	Cast Iron
110.0	150.0	1636.0	306.0	366.0
150.0	200.0	1911.0	357.0	427.0

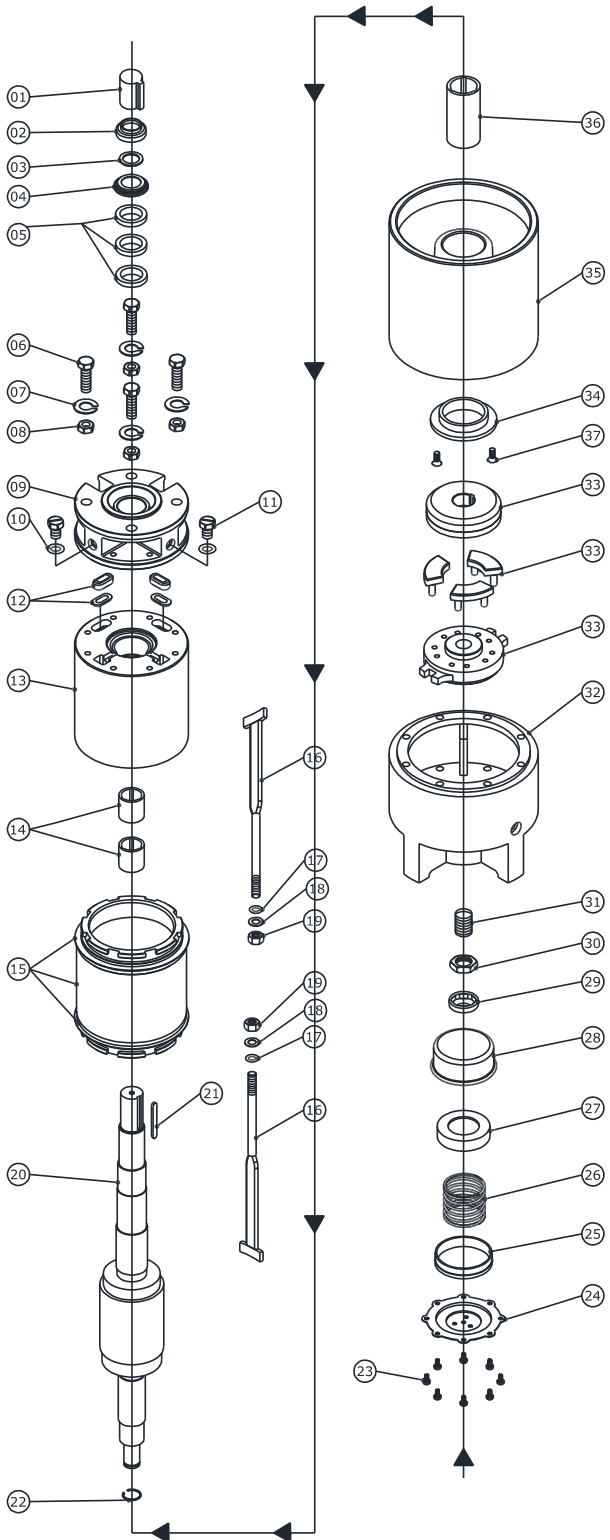
SUBMERSIBLE MOTOR

Technical Data of 10" 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		
150	110	60 000	380	2905	236	1096	85	86	85	0.73	0.82	0.86	360	419
			400	2915	231	1157	85	87	85	0.65	0.77	0.83	359	468
			415	2920	232	1205	83	84	86	0.60	0.71	0.80	359	508
200	150	60 000	380	2910	306	1501	88	88	87	0.80	0.84	0.87	491	569
			400	2915	297	1589	85	87	86	0.75	0.82	0.87	490	636
			415	2930	295	1654	87	88	88	0.70	0.78	0.84	489	690

- 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 10" Motor



Sr.No.	PARTS NAME
01	ROTOR CAP
02	SAND GUARD
03	TEFLON WASHER
04	UPPER CAP
05	OIL SEAL
06	HEX BOLT
07	SPRING WASHER
08	HEX NUT
09	ADOPTOR
10	DRAIN PLUG 'O' RING
11	DRAIN PLUG
12	GROMMET & WASHER
13	UPPER HOUSING
14	BEARING BUSH
15	STATOR BODY FINISH FLANGE (USE FOR UPPER & LOWER SIDE)
16	T-BOLT(UPPER SIDE) T-BOLT(LOWER SIDE)
17	T-BOLT 'O'RING
18	T-BOLT WASHER
19	NYLOCK NUT
20	ROTOR FINISH
21	CIR CLIP(USE FOR ROTOR)
22	KEY (USE FOR COUPLING SIDE)
23	SLOTTED ROUNDHEAD SCREW
24	MOTOR BASE PLATE
25	SPRING JACKET-1
26	SPRING
27	SPRING JACKET-2
28	PRESSUR CUP
29	ROCKER NUT CAP
30	ROCKER NUT
31	ROCKER
32	MOTOR BASE
33	CARBON BEARING SET
34	C.T. BEARING
35	LOWER HOUSING
36	BEARING BUSH
36	C.S.K SCREW (USE FOR C.T. BEARING)

CABLE SELECTION CHART

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 220V SINGLE PHASE 50 Hz.

HP	CABLE LENGTH IN METERS																				
	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400	450	500
	Cable Size in Sq. MM																				
0.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
1.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
1.50	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
2.00	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
3.00	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0
4.00	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	35.0
5.00	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0

Example: For a 2 HP motor 180volts and 70 meter actual cable length ,

calculated length = $(220 \div 180) \times 70 = 85$ m. The size of the cable to be selected for 85 m from the chart is 6 mm²

For other voltages the cable size is to be follows:

Calculated length = $(220 \div \text{Actual Voltage}) \times \text{actual length}$

CABLE SELECTION CHART

SUBMERSIBLE PUMPSET CABLE CHART FOR 415V 50Hz.

HP	CABLE LENGTH IN METERS																			
	10	20	30	40	50	60	70	80	90	100	120	140	180	200	250	300	350	400	450	500
	Cable Size in Sq. MM.																			
1.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0
2.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
3.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0
4.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
5.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
6.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
7.50 S	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
7.50 D	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0
10.00	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
12.50	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
15.00	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0
17.50	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0
20.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
25.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0
30.00	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
40.00	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0
50.00	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0
60.00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0
70.00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0
80.00	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	50.0	50.0	70.0	70.0	95.0	95.0

Example: For a 20 HP motor 350 volts and 90 meter actual

cable length, calculated length = $(415 \div 350) \times 90 = 107$ mtr. The size of the cable to be selected for 107 Mtr from the chart is 6 Sq mm

For other voltages the cable size is to be follows : Calculated length = $(415 \div \text{Actual Voltage}) \times \text{actual length}$.

CABLE SELECTION CHART

SUBMERSIBLE PUMPSET CABLE SELECTION
CHART FOR 230V SINGLE PHASE 60 Hz

Cable Selection chart for sub. Motors 230 Volts, 60Hz, Single Phase, CSR / CSCR												
4" MOTOR			MAX. CABLE LENGTH IN MTR	CABLE SIZE IN SQ.MM								
HP	In(A)	P.F.at 100%		1.5	2.5	4	6	10	16	25	35	50
0.50	4.2	0.68		90	149	238	353	580	905	-	-	-
0.75	6.5	0.70		57	94	149	222	365	570	862	--	--
1.00	7.8	0.73		45	75	119	178	292	458	694	940	--
1.50	9.6	0.79		34	56	90	134	221	347	529	720	988
2.00	12.5	0.89		23	39	62	92	152	240	369	507	705
3.00	16.5	0.89		18	29	47	70	115	182	280	384	534
5.50	26.0	0.89		11	19	30	45	74	117	179	246	341

Note: Consider Voltage Drop 3%

CABLE SELECTION CHART

SUBMERSIBLE PUMPSET CABLE SELECTION
CHART FOR 380 / 460V 60Hz THREE PHASE

Cable Selection chart for Water Filled Sub. Motors, 380 / 460 Volts / 60 Hz, Three Phase																
4" MOTOR			MAX. CABLE LENGTH IN MTR	CABLE SIZE IN SQ.MM												
HP	In(A)	P.F.at 100%		1.5	2.5	4	6	10	16	25	35	50	70	95	120	150
0.50	1.2	0.79		628	1044	–	–	–	–	–	–	–	–	–	–	–
0.75	1.6	0.80		465	773	1232	–	–	–	–	–	–	–	–	–	–
1.00	2.0	0.81		368	611	974	1453	–	–	–	–	–	–	–	–	–
1.50	2.5	0.83		287	477	761	1135	1873	–	–	–	–	–	–	–	–
2.00	3.4	0.81		216	360	573	854	1408	2217	–	–	–	–	–	–	–
3.00	4.8	0.74		168	278	443	660	1084	1700	2579	–	–	–	–	–	–
5.50	8.0	0.75		99	165	262	391	643	1008	1530	2077	–	–	–	–	–
7.50	11.5	0.77		67	112	178	265	436	685	1042	1416	1939	–	–	–	–
10.00	15.9	0.80		47	78	124	185	305	479	730	996	1368	1822	–	–	--
6" MOTOR																
3	5.59	0.74		143	239	381	568	–	–	–	–	–	–	–	–	–
5.5	10.11	0.75		79	130	208	310	510	–	–	–	–	–	–	–	–
7.5	12.9	0.82		56	94	149	223	367	579	–	–	–	–	–	–	–
10	17.2	0.82		–	70	111	167	275	434	663	–	–	–	–	–	–
12.5	20.79	0.82		--	58	92	138	227	358	547	747	–	–	–	–	–
15	25	0.83		–	47	76	113	187	295	451	616	849	–	–	–	–
17.5	29	0.82		--	41	66	99	163	257	392	535	738	986	–	–	–
20	32.11	0.84		--	36	58	87	144	227	347	475	656	879	–	–	–
25	40.6	0.81		--	30	47	71	117	185	283	386	531	708	–	–	–
30	47.11	0.81		--	25	41	61	101	160	244	332	457	610	782	–	–
35	55.71	0.84		--	–	33	50	83	131	200	274	378	507	653	785	–
40	64.41	0.82		–	–	–	44	73	115	176	241	332	444	570	683	8014
50	79.12	0.82		–	–	–	36	59	94	143	196	270	361	464	556	654
8" MOTOR																
40	60	0.89		–	–	–	44	73	115	177	244	339	458	596	722	862
50	75	0.87		–	–	–	36	59	94	144	198	275	370	479	579	688
60	90	0.87		–	–	–	–	49	78	120	165	229	308	400	483	573
75	108	0.88		–	–	–	–	–	65	99	136	189	256	332	402	478

Note: Consider Voltage Drop 3%

CABLE SELECTION CHART

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 230V THREE PHASE 60 Hz

Cable Selection chart for Water Filled Sub. Motors, 230 Volts / 60 Hz, Three Phase																
4" MOTOR			MAX. CABLE LENGTH IN MTR	CABLE SIZE IN SQ.MM												
HP	In(A)	P.F.at 100%		1.5	2.5	4	6	10	16	25	35	50	70	95	120	150
0.50	2.41	0.79		156	260	414	617	-	-	-	-	-	-	-	-	-
0.75	3.10	0.80		120	200	318	474	781	-	-	-	-	-	-	-	-
6" MOTOR																
3	10.0	0.72		41	69	109	163	267	418	-	-	-	-	-	-	-
5.5	21.11	0.73		19	32	51	76	125	196	296	-	-	-	-	-	-
7.5	26.11	0.80		14	24	38	56	93	146	222	303	-	-	-	-	-
10	35.91	0.78		11	18	28	42	69	108	165	225	308	-	-	-	-
12.5	44.41	0.78		-	14	23	24	56	88	133	182	249	331	-	-	-
15	51.21	0.80		-	12	19	29	47	74	113	155	212	283	362	-	-
17.5	62.39	0.76		-	-	17	25	41	64	97	132	180	239	303	-	-
20	65.89	0.81		-	-	15	22	36	57	87	119	164	218	280	-	-
25	85.39	0.77		-	-	12	18	29	46	70	95	131	173	220	-	-
30	100.20	0.77		-	-	-	15	25	39	60	81	111	148	188	223	-
35	118.30	0.76	-	-	-	-	51	34	51	70	95	126	160	190	222	
40	135.70	0.78	-	-	-	-	-	29	44	59	81	108	138	164	192	
50	169.00	0.78	-	-	-	-	-	23	35	47	65	86	110	131	154	

Note: Consider Voltage Drop 3%

NOTE

[illegible]

NOTE

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NOTE

[illegible]

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