

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.

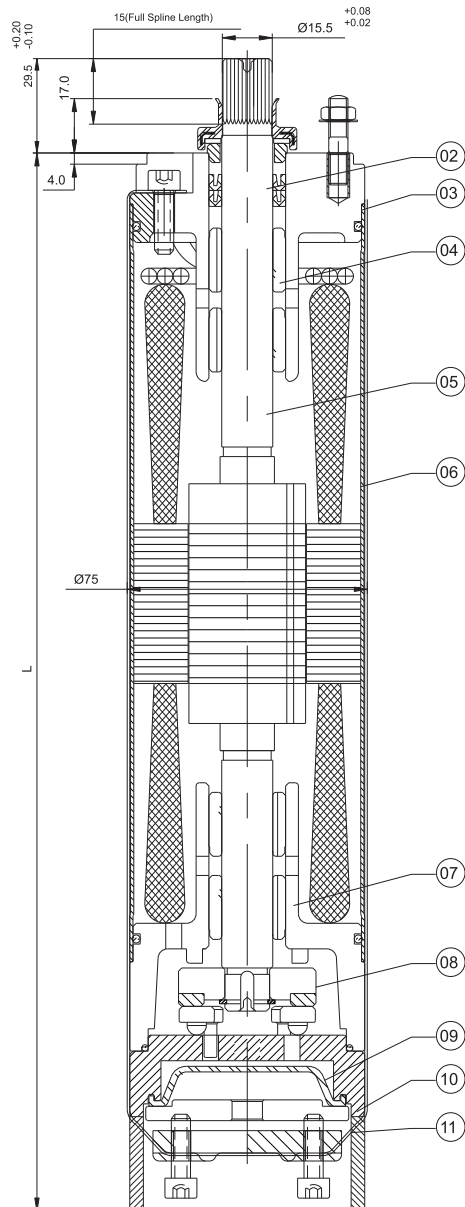
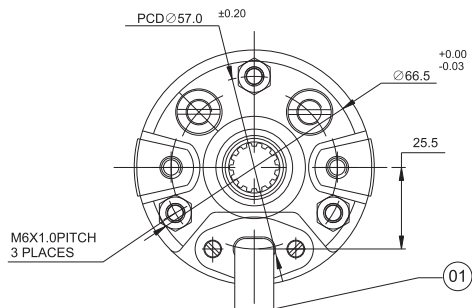
VERSIONS:

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

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	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

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 μ F (Uc=450V)	Capacitor Starting μ F (Uc=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		

- 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

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)
[H.P.]	[kW]						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

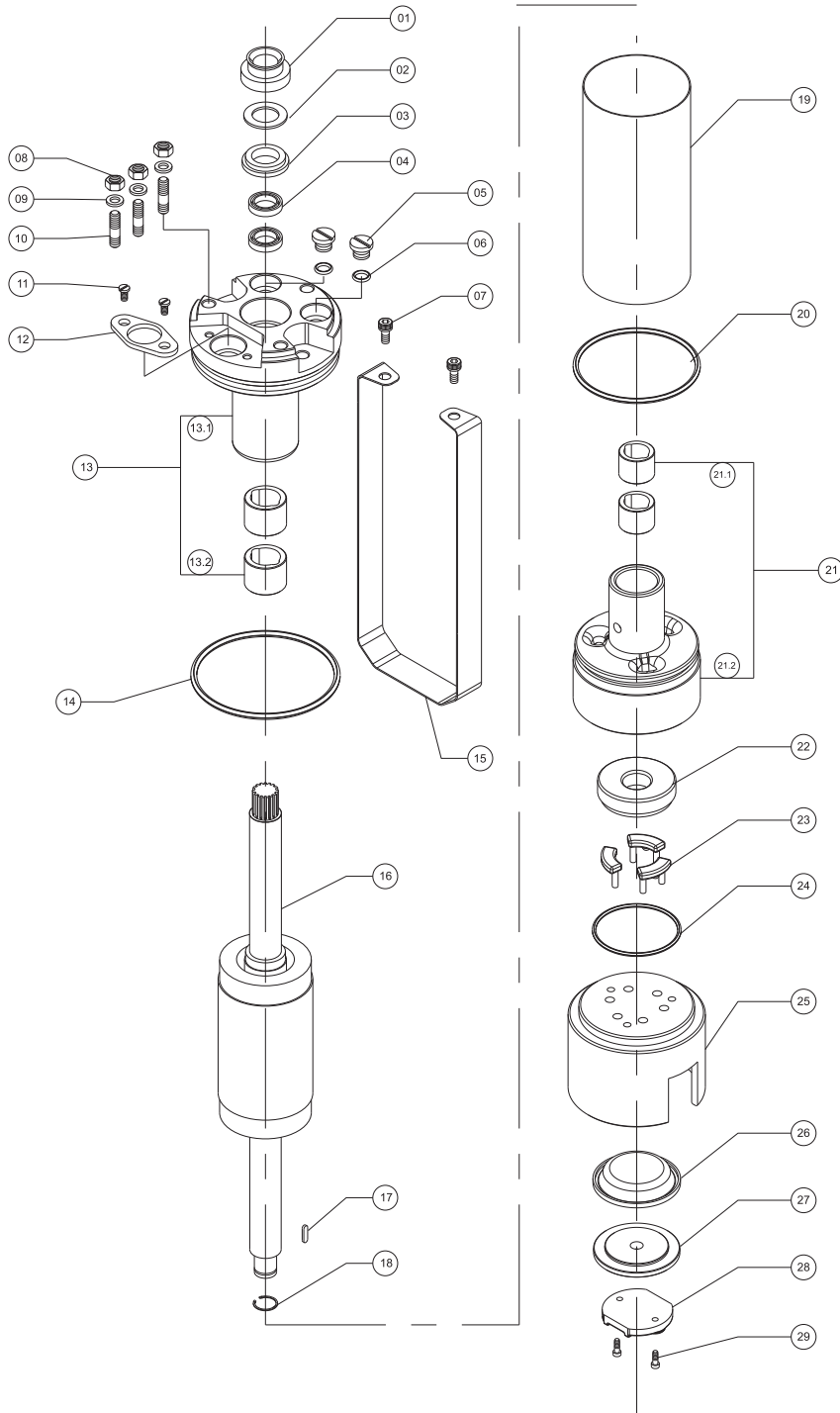
- PN - Rated Output
- F[N] - Axial Thrust Load
- UN - Rated Voltage
- nN - RPM
- IN - Full Load Current
- IA - Starting Current
- η - Motor Efficiency
- cosφ - Power Factor
- TN - Full Load Torque
- TA - Starting Torque

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)
[H.P.]	[kW]						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" W/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