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.

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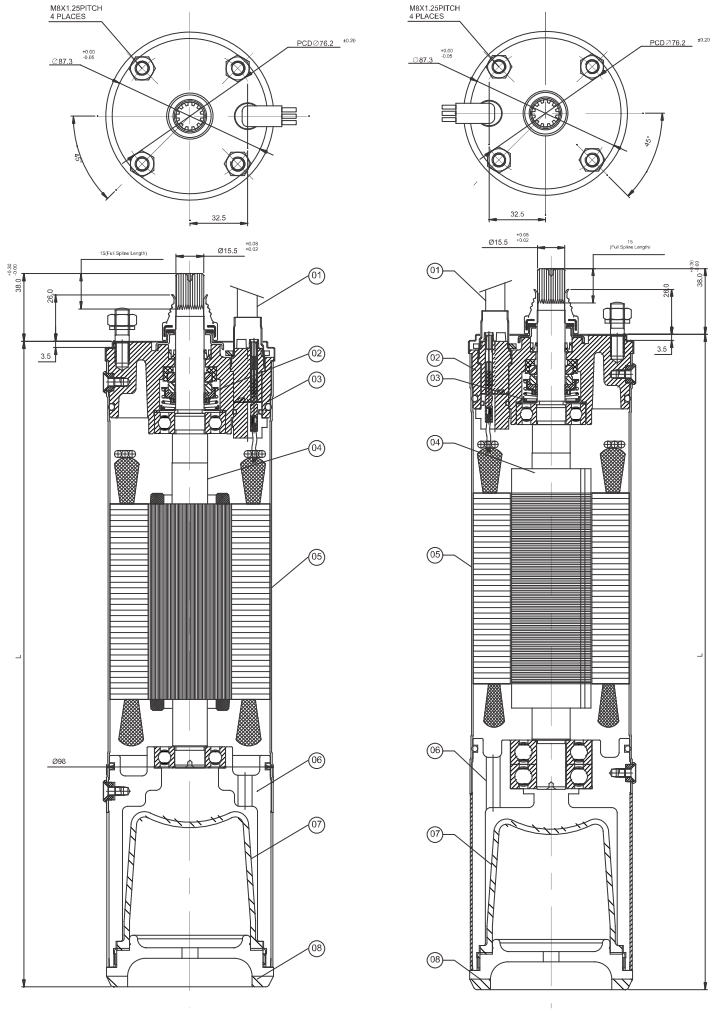
4" O/L REWINDABLE MOTOR



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

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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
- cosφ - 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)

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]
[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

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Technical Data of 4" Motors Single Phase (220-230 Volt / 60 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			
0.5	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

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 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

- 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

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.

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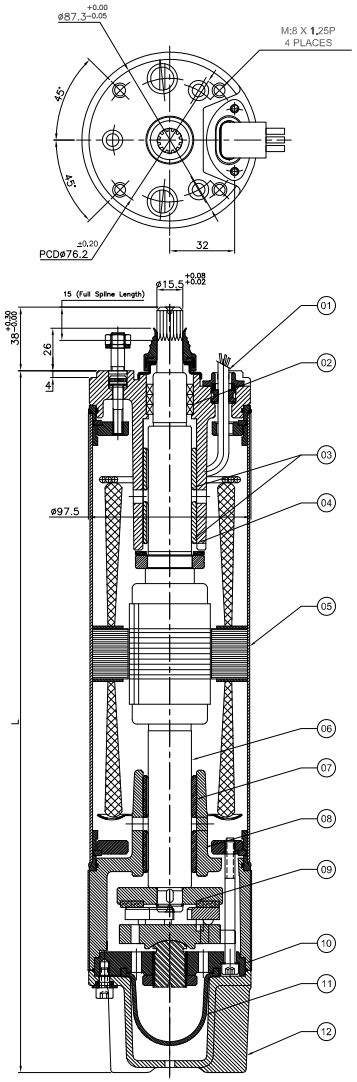
4" W/L REWINDABLE MOTOR



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 L [mm]	MOTOR WEIGHT [kg]		MOTOR WEIGHT (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 L [mm]	MOTOR WEIGHT [kg]		MOTOR WEIGHT (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

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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
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- I_A - Starting Current
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- 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)

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]
[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

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- T_N - Full Load Torque
- T_A - Starting Torque
- F{N}- Axial Thrust Load

SINCE 1935 VARUNA ELECTRIC

Technical Data of 4" Motors Single Phase / 60 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			
0.5	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

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- I_A - Starting Current
- η - Motor Efficiency
- cosφ - Power Factor
- T_N - Full Load Torque
- T_A - Starting Torque
- F(N) - Axial Thrust Load

Technical Data of 4" Motors Single Phase / 60 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 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

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- 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