

Tune To Efficient Future



COMPANY PROFILE



PLUGA Pumps and Motors Pvt Ltd (100% Subsidiary of Franklin Electric, USA) a leading Indian brand known for world class manufacturing & distribution of Water Pumping solutions.

Established since 1987, PLUGA has made distinguished contribution towards finest submersible water pump and motor in last three decades. Today, Pluga products are not only sold in India but Exported globally.

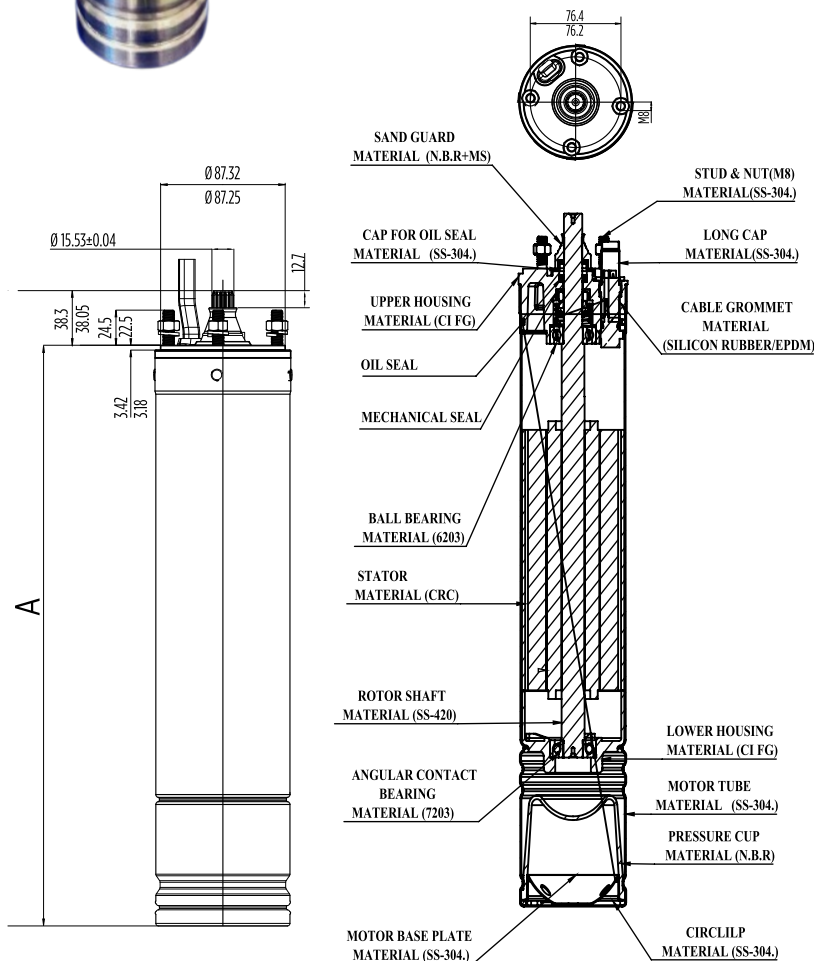
Emphasizing on the prosperity and health of the customer, we thrive to operate with a diverse portfolio of reliable and affordable pump sets delivering world-class performance through state-of-the-art manufacturing facility. Our dedicated team for design manufacturing are well equipped with latest design software and advance machineries to facilitates bulk production without compromising the quality



Our energy efficient product range for agriculture and domestic market includes 3" to 10" Submersible Pumps, Water filled & Oil filled Rewindable Motors, MNRE approved Solar Pumping system, Centrifugal Monoblocs, Domestic pumps VFD, controllers and Cables.

We have World's best Solar Simulator for capturing real time test results with auto generated test reports. All the pumps and motors are carefully designed & manufactured so that they have minimum impact on environment while production & while in use.

OTEC - 4" OIL FILLED MOTOR



SPECIFICATIONS

- Ratings: Single Phase - 0.37 to 4 kW
Three Phase - 0.37 to 5.5 kW
- Supply voltages (Tolerance + 6%/-10%)
- 50 Hz, 1 Phase, 220 - 230 V
- 50 Hz, 3 Phase, 380 - 415 V
- Degree pf protection : IP68
- Duty cycle : S1 Continuous
- Ambient temperature : 35°C
- Rotation : CCW from top
- Maximum nos. of starts/hour : 30
- Water pH : 6.5 - 8
- Use cooling sleeve for borewell size larger than 150mm
- Minimum cooling flow along the motor : 0.08 m/sec
- Mounting : Vertical

FEATURES

- Completely rewindable.
- Cooling and lubrication by nontoxic fluid.
- High quality ball bearing & mechanical seal.
- High efficiency electrical design.
(lower operating cost)
- 4" NEMA coupling
- Pressure compensation diaphragm.

PART	MATERIAL
	0.37-5.5 kW
▪ Rotor Shaft	Stainless Steel
▪ Cable	PVC/Rubber
▪ Sand Guard	NBR
▪ Stud & Nut	SS-304
▪ Mechanical Seal	Sic.
▪ Upper Housing	CI-Cladded
▪ Bearing	Ball Bearing
▪ Motor Tube	SS
▪ Rotor	Cu
▪ Lower Housing	CI
▪ Motor Base Plate	SS
▪ Pressure Cup	NBR

OTEC - 4" OIL FILLED MOTOR

PERFORMANCE DATA - SINGLE-PHASE

220 - 230 V 50 Hz

4" Oil Filled Motor - Performance Data 50Hz, 1-Ph															
P _n		Thrust F(N)	Volt	n min. ⁻¹	I _n [A]	I _{n,max}	η [%]			cos φ %			T _n N _m	Length mm	Weight (Kg)
HP	KW						50	75	100	50	75	100			
0.5	0.37	1500	220	2865	3.3	3.5	37	48	48	0.88	0.94	0.97	1.2	326	7.1
			230	2880	3.4	3.6	34	45	45	0.82	0.89	0.94	1.2		
0.75	0.55	1500	220	2840	4.6	7.9	41	52	52	0.87	0.94	0.97	1.9	335	7.5
			230	2850	4.8	5.1	37	48	48	0.81	0.89	0.95	1.9		
1.0	0.75	1500	220	2855	5.8	6.2	44	55	55	0.81	0.90	0.96	2.5	356	8.5
			230	2865	6.2	6.6	42	52	52	0.74	0.84	0.91	2.5		
1.5	1.1	1500	220	2815	8.3	8.8	47	59	59	0.86	0.93	0.97	3.8	380	9.6
			230	2825	8.6	9.2	43	55	55	0.78	0.87	0.94	3.8		
2.0	1.5	2500	220	2815	10.8	11.5	51	61	61	0.93	0.98	0.99	5.1	425	11.8
			230	2830	10.8	11.5	47	58	58	0.85	0.93	0.97	5.0		
3.0	2.2	2500	220	2815	15.5	16.5	53	63	63	0.90	0.96	0.99	7.6	474	14.1
			230	2830	15.8	16.9	48	60	60	0.80	0.90	0.96	7.5		
4.0	3.0	4500	220	2875	17.8	19.0	66	75	75	0.96	0.99	0.99	9.9	541	17
			230	2890	17.3	18.5	63	73	73	0.89	0.95	0.98	9.8		
5.5	4.0	4500	220	2890	24.6	26.3	67	75	75	0.94	0.98	0.99	13.5	636	22.7
			230	2900	24.2	25.9	62	72	72	0.85	0.93	0.98	13.5		

220 - 230 V 60 Hz

4" Oil Filled Motor - Performance Data 50Hz, 1-Ph															
P _n		Thrust F(N)	Volt	n min. ⁻¹	I _n [A]	I _{n,max}	η [%]			cos φ %			T _n N _m	Length mm	Weight (Kg)
HP	KW						50	75	100	50	75	100			
0.5	0.37	1500	220	3480	3.6	3.8	31	41	49	0.90	0.94	0.96	1.0	326	7.1
			230	3490	3.9	4.1	29	39	46	0.81	0.87	0.91	1.0		
0.75	0.55	1500	220	3470	5.3	5.6	31	41	49	0.93	0.96	0.98	1.5	335	7.5
			230	3475	5.6	6.0	28	39	46	0.86	0.91	0.94	1.5		
1.5	1.1	1500	220	3460	5.9	6.3	41	52	59	0.93	0.97	0.99	2.1	356	8.5
			230	3470	6.0	6.4	38	49	57	0.85	0.91	0.95	2.1		
2.0	1.5	2500	220	3445	8.3	8.8	45	55	62	0.95	0.98	0.99	3.1	380	9.6
			230	3460	8.4	8.9	42	53	60	0.87	0.93	0.97	3.1		
2.0	1.5	2500	220	3450	10.3	11.0	51	61	66	0.96	0.99	0.99	4.1	425	11.8
			230	3465	10.0	10.7	49	60	67	0.89	0.94	0.97	4.1		
3.0	2.2	2500	220	3425	14.6	15.6	56	66	71	0.95	0.98	0.99	6.2	474	14.1
			230	3440	14.5	15.5	53	64	69	0.90	0.95	0.98	6.2		
4.0	3.0	4500	220	3495	19.0	20.3	60	70	75	0.85	0.91	0.95	8.2	541	17
			230	3505	18.5	19.8	58	68	74	0.86	0.91	0.95	8.1		
5.5	4.0	4500	220	3510	24.8	26.5	64	73	78	0.9	0.95	0.97	11.2	636	22.7
			230	3520	24.4	26.1	62	71	77	0.92	0.95	0.97	11.1		

OTEC - 4" OIL FILLED MOTOR

PERFORMANCE DATA - THREE-PHASE

380 - 415 V 50 Hz

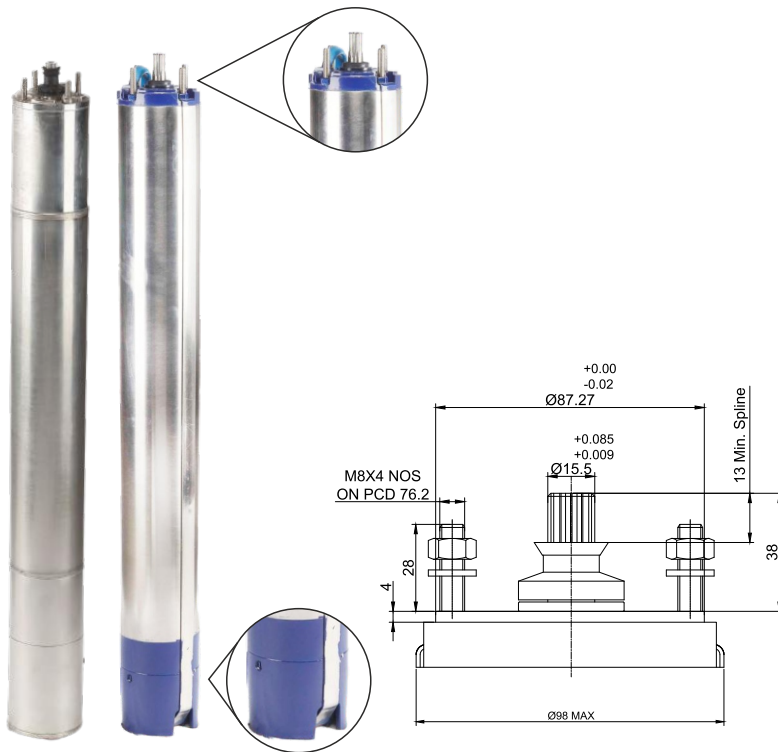
4" Oil Filled Motor - Performance Data 50Hz, 1-Ph															
P _n		Thrust F(N)	Volt	n min. ⁻¹	I _n	I _{n,max}	η [%]			cos φ %			T _n	Length mm	Weight (Kg)
HP	KW				[A]		50	75	100	50	75	100	N _m		
0.5	0.37	1500	380	2845	1.3	1.4	50	57	61	0.59	0.69	0.76	1.25	326	7.1
			400	2865	1.3	1.4	49	57	61	0.54	0.64	0.72	1.24		
			415	2880	1.3	1.4	48	56	61	0.50	0.60	0.68	1.24		
0.75	0.55	1500	380	2840	1.8	1.9	54	61	64	0.57	0.68	0.77	1.88	335	7.5
			400	2860	1.9	2.0	51	59	63	0.51	0.62	0.71	1.87		
			415	2870	1.9	2.0	49	58	63	0.47	0.57	0.66	1.86		
1.0	0.75	1500	380	2835	2.2	2.3	60	66	69	0.57	0.69	0.78	2.51	345	7.9
			400	2855	2.3	2.4	57	65	68	0.50	0.62	0.71	2.49		
			415	2865	2.4	2.5	55	63	67	0.45	0.56	0.66	2.49		
1.5	1.1	1500	380	2835	3.1	3.3	66	71	73	0.57	0.70	0.79	3.77	367	8.9
			400	2855	3.2	3.4	63	69	72	0.50	0.62	0.72	3.74		
			415	2865	3.4	3.6	61	68	71	0.44	0.57	0.67	3.73		
2.0	1.5	2500	380	2825	3.8	4.0	70	74	74	0.63	0.76	0.83	5.04	387	9.9
			400	2845	3.9	4.1	67	72	74	0.55	0.68	0.77	5.01		
			415	2860	4.1	4.3	64	71	73	0.48	0.62	0.72	4.98		
3.0	2.2	2500	380	2810	5.1	5.4	73	76	76	0.55	0.70	0.80	7.60	425	11.6
			400	2830	6.1	6.5	69	74	75	0.48	0.62	0.73	7.55		
			415	2845	6.4	6.8	66	72	75	0.43	0.56	0.67	7.51		
4.0	3.0	4500	380	2815	7.5	8.0	74	77	77	0.58	0.72	0.81	10.12	475.7	14.1
			400	2835	7.9	8.4	70	75	76	0.50	0.64	0.74	10.05		
			415	2850	8.2	8.7	67	73	75	0.44	0.58	0.69	9.99		
5.5	4.0	4500	380	2820	10.2	10.9	75	78	78	0.57	0.72	0.81	13.89	541.7	17
			400	2840	10.8	11.5	71	75	77	0.49	0.63	0.74	13.79		
			415	2855	11.3	12.0	68	74	76	0.44	0.57	0.68	13.72		
7.5	5.5	4500	380	2830	13.2	14.1	78	80	79	0.62	0.76	0.84	18.87	635.7	22.6
			400	2850	13.5	14.4	76	79	79	0.54	0.68	0.78	18.74		
			415	2865	13.8	14.7	74	78	79	0.48	0.62	0.74	18.64		
10.0	7.5	4500	380	2850	18.3	19.6	76	80	79	0.56	0.71	0.81	24.98	744.7	28
			400	2865	19.4	20.7	72	77	78	0.48	0.63	0.73	24.85		
			415	2875	20.3	21.7	69	75	77	0.43	0.57	0.68	24.76		

OTEC - 4" OIL FILLED MOTOR

460 V 60 Hz

4" Oil Filled Motor - Performance Data 50Hz, 1-Ph															
P _n		Thrust F(N)	Volt	n min. ⁻¹	I _n	I _{n,max}	η [%]			cos φ %			Tn	Length mm	Weight (Kg)
HP	KW				[A]		50	75	100	50	75	100	N _m		
0.50	0.37	1500	460	3470	1.2	1.28	44	53	58	0.57	0.66	0.73	1.0	326	7.1
0.75	0.55	1500	460	3460	1.7	1.82	51	59	63	0.54	0.64	0.72	1.5	335	7.5
1.0	0.75	1500	460	3475	2.1	2.24	56	64	68	0.49	0.60	0.69	2.0	345	7.9
1.5	1.1	1500	460	3470	2.8	3.0	68	71	74	0.47	0.61	0.71	3.1	367	8.9
2.0	1.5	2500	460	3465	3.6	3.85	66	72	75	0.51	0.63	0.73	4.1	387	9.9
3.0	2.2	2500	460	3455	5.3	5.67	67	73	76	0.48	0.61	0.71	6.2	425	11.6
4.0	3.0	4500	460	3455	6.7	7.16	71	76	78	0.49	0.62	0.72	8.2	475.7	14.1
5.5	4.0	4500	460	3460	9.2	9.84	71	76	79	0.48	0.61	0.71	11.3	541.7	17
7.5	5.5	4500	460	3470	11.5	12.30	75	79	80	0.53	0.67	0.76	15.4	635.7	22.6
10.0	7.5	4500	460	3485	17.1	18.29	72	78	80	0.45	0.58	0.69	20.5	744.7	28

QUADRA - 4" REWINDABLE MOTOR

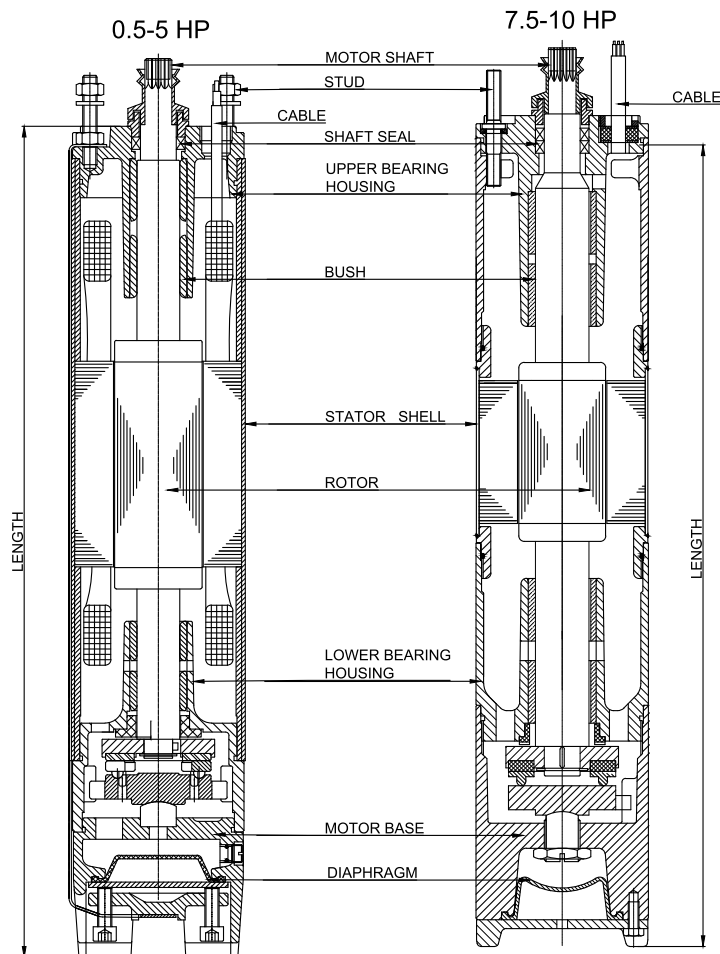


SPECIFICATIONS

- Ratings: Single Phase - 0.37 to 3.7 kW
Three Phase - 0.37 to 7.5 kW
- Supply voltages (Tolerance +6%/-10%)
- 50 Hz, 1 Phase, 220 - 230 V
- 50 Hz, 3 Phase, 380 - 415 V
- 60 Hz, 1 Phase, 230 V
- 60 Hz, 3 Phase, 230 - 380 - 460 V
- Degree pf protection : IP68
- Duty cycle : S1 Continuous
- Ambient temperature : 45°C
- Rotation : CCW from top
- Maximum nos. of starts/hour : 20
- Water pH : 6.5 - 8
- Use cooling sleeve for borewell size larger than 150mm
- Minimum cooling flow along the motor : 0.08 m/sec
- Mounting : Vertical

FEATURES

- Completely rewindable.
- Cooling and lubrication by nontoxic fluid.
- Special coated Copper rotor shaft for longer life.
- High quality carbon v/s SS thrust bearing.
- High efficiency electrical design. (lower operating cost)
- 4" NEMA coupling
- Pressure compensation diaphragm.
- Additional strip to safegaurd.



PART	CI / SS	
	0.5-5 HP	7.5-10 HP
▪ Motor Shaft	SS	SS
▪ Cable	EPR/PVC	EPR/PVC
▪ Sand Guard	NBR	NBR
▪ Stud/Hardware	SS	SS
▪ Shaft Seal	NBR	NBR
▪ Upper Bearing Housing	CI FG-200	SG Iron
▪ Bush	LTB-4	LTB-4
▪ Stator Shell	SS	SS
▪ Rotor	Copper	Copper
▪ Lower Bearing Housing	CI FG-200	SG Iron
▪ Motor Base	CI FG-200	SG Iron
▪ Diaphragm	NBR	NBR

QUADRA - 4" REWINDABLE MOTOR

PERFORMANCE DATA

50 Hz.

4" Rewindable Motor - Performance Data 50Hz, 1-Ph																	
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n,max}	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]	Length [mm]	Weight [kg]
HP	KW							50	75	100	50	75	100				
0.5	0.37	3000	230	2840	3.5	3.7	14.1	51	53	55.0	0.79	0.82	0.88	1.20	2.2	420	13.5
0.75	0.55	3000	230	2840	4.7	5.0	18.9	54	60	61.0	0.78	0.82	0.89	1.90	3.3	440	14
1	0.75	3000	230	2840	6.3	6.7	25.5	60	62	64.0	0.79	0.84	0.90	2.50	4.5	460	15
1.5	1.10	3000	230	2840	8.6	9.2	34.8	61	65	66.0	0.80	0.83	0.90	3.70	6.7	520	18
2	1.50	3000	230	2840	10.9	11.7	44.1	62	68	71.0	0.82	0.86	0.91	5.00	9.1	540	20
3	2.20	3000	230	2840	14.1	15.1	57.3	62	67	72.0	0.86	0.88	0.92	7.40	13.3	630	22.5
5	3.70	3000	230	2840	25.0	26.8	101	63	69	73.0	0.85	0.88	0.93	12.50	22.6	858	29.5

4" Rewindable Motor - Performance Data 50Hz, 3-Ph																	
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n,max}	I _A [A]	η, [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]	Length [mm]	Weight [kg]
HP	KW							50	75	100	50	75	100				
0.50	0.37	3000	380	2860	1.4	1.5	5.7	55.0	60.0	63.0	0.67	0.71	0.73	1.2	2	420	13.5
0.75	0.55	3000	380	2860	1.6	1.7	6.5	56.0	63.0	65.0	0.69	0.74	0.77	1.8	3	440	14
1.00	0.75	3000	380	2860	2.2	2.4	9.0	62.0	65.0	66.0	0.70	0.72	0.75	2.5	5	460	15
1.50	1.10	3000	380	2860	2.8	3.0	11.3	65.0	67.0	68.0	0.71	0.73	0.76	3.7	7	520	18
2.00	1.50	3000	380	2860	3.9	4.2	15.8	67.0	68.0	69.0	0.72	0.75	0.78	5.0	9	540	20
3.00	2.20	4500	380	2860	5.6	6.0	22.7	67.0	69.0	72.0	0.74	0.77	0.81	7.4	13	630	22.5
4.00	3.00	4500	380	2860	7.2	7.7	29.2	69.0	72.0	73.0	0.75	0.79	0.82	10.0	18	760	29.5
5.50	4.00	6000	380	2860	9.8	10.5	39.7	69.0	72.0	74.0	0.76	0.79	0.82	13.5	24	858	32.5
7.50	5.50	6000	380	2860	13.8	14.8	55.9	70.0	73.0	75.0	0.74	0.79	0.83	18.5	33	932	35
10	7.5	6000	380	2860	17.5	18.5	65	72.0	75.0	77.0	0.76	0.80	0.85	24.2	40	1170	40

P_n : Rated Power **U_n : Rated Voltage** **I_A Locked Rotor Current**
T_n : Rated Torque **I_n : Rated Current** **T_A Locked Rotor Torque**

Note : These specifications are based on existing design, which may change for the betterment of performance.

* 10 HP available in SS construction only

QUADRA - 4" REWINDABLE MOTOR

PERFORMANCE DATA

60 Hz.

4" Rewindable Motor - Performance Data 60Hz, 1-Ph															
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n,max}	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]
HP	KW							50	75	100	50	75	100		
0.5	0.37	3000	230	3450	4.4	4.7	4.9	52.0	56.0	58.0	79	85	87	1.23	2.2
0.75	0.55	3000	230	3450	5.5	5.9	4.9	53.0	56.0	58.0	80	85	87	1.83	3.3
1	0.75	3000	230	3450	6.66	7.1	5	53.0	56.0	59.0	79	81	83	2.5	4.5
1.5	1.1	3000	230	3450	9	9.6	5.1	62.0	65.0	67.0	82	87	88	3.67	6.7
2	1.5	3000	230	3450	10.78	11.5	5.15	62.0	69.0	68.0	83	87	89	5.02	9.1
3	2.2	3000	230	3450	15.5	16.6	5.25	64.0	69.0	71.0	86	89	91	7.38	13.3
5.5	4	3000	230	3450	26.5	28.4	5.3	66.0	70.0	72.0	86	95	95	8.1	22.6

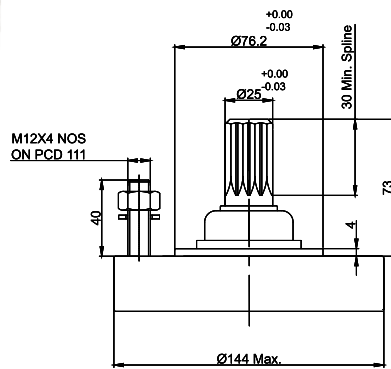
4" Rewindable Motor - Performance Data 60Hz, 3-Ph															
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n,max}	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]
HP	KW							50	75	100	50	75	100		
0.5	0.37	3000	230	3450	2.3	2.5	4.2	59.0	61.0	65.0	62	65	68	1.22	2
			380	3450	1.3	1.4	4.5	59.0	61.0	65.0	64	68	71	1.22	2
			460	3450	1.2	1.3	4.5	59.0	61.0	65.0	63	66	68	1.22	2
0.75	0.55	3000	230	3450	3.4	3.6	4.3	56.0	62.0	64.0	68	72	75	1.82	3
			380	3450	1.95	2.1	4.7	57.0	62.0	64.0	69	73	77	1.82	3
			460	3450	1.66	1.8	4.8	59.0	62.0	66.0	65	69	70	1.82	3
1	0.75	3000	230	3450	4.2	4.5	4.3	58.0	63.0	65.0	69	72	72	2.5	5
			380	3450	2.5	2.7	4.7	59.0	64.0	66.0	70	73	73	2.5	5
			460	3450	1.95	2.1	4.8	60.0	65.0	67.0	69	72	72	2.5	5
1.5	1.1	3000	230	3450	5.4	5.8	4.35	62.0	67.0	71.0	68	71	73	3.69	7
			380	3450	3.2	3.4	4.75	62.0	37.0	71.0	69	73	74	3.69	7
			460	3450	2.66	2.8	4.85	62.0	67.0	71.0	68	71	73	3.69	7
2	1.5	3000	230	3450	7.2	7.7	4.85	63.0	69.0	71.0	71	76	74	5.03	9
			380	3450	3.9	4.2	4.85	63.0	69.0	72.0	72	78	76	5.03	9
			460	3450	3.58	3.8	4.88	63.0	69.0	71.0	71	76	74	5.03	9
3	2.2	4500	230	3450	10.2	10.9	4.9	67.0	70.0	73.0	71	73	74	7.4	13
			380	3450	5.4	5.8	4.9	68.0	71.0	74.0	73	75	76	7.4	13
			460	3450	5.11	5.5	4.9	67.0	70.0	73.0	71	73	74	7.4	13
4	3	4500	230	3450	13.2	14.1	4.85	69.0	72.0	74.0	74	76	77	10.09	18
			380	3450	7.1	7.6	4.9	70.0	73.0	75.0	75	77	78	10.09	18
			460	3450	6.61	7.1	4.95	69.0	72.0	74.0	74	86	77	10.09	18
5.5	4	6000	230	3450	17.62	18.9	5.2	70.0	73.0	74.0	72	75	77	13.45	24
			380	3450	9.7	10.4	5.18	70.0	73.0	74.0	73	70	78	13.45	24
			460	3450	8.81	9.4	5.2	70.0	73.0	74.0	72	75	77	13.45	24
7.5	5.5	6000	230	3450	24.55	26.3	5.2	69.0	74.0	75.0	72	74	75	18.5	33
			380	3450	13.93	14.9	5.3	70.0	74.0	75.0	76	79	80	18.5	33
			460	3450	12.27	13.1	5.35	70.0	74.0	75.0	72	74	75	18.5	33

P_n : Rated Power U_n : Rated Voltage I_A : Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A : Locked Rotor Torque

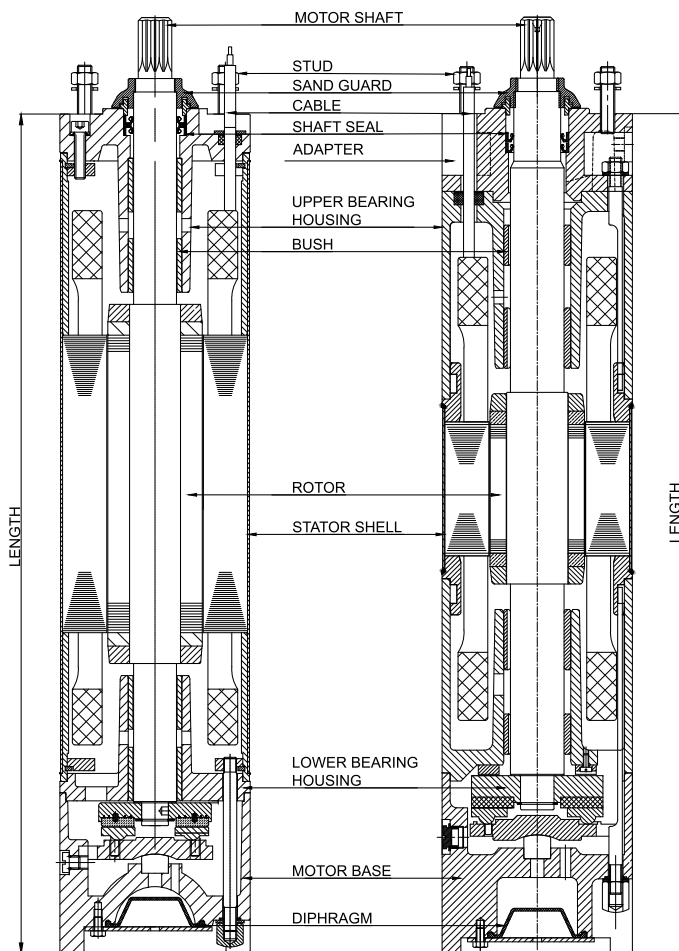
Note : These specifications are based on existing design, which may change for the betterment of performance.

HEXA - 6" REWINDABLE MOTOR (Close Type)



3-12.5 HP

15-30 HP



SPECIFICATIONS

- Ratings: Three Phase - 2.2 to 37 kW
- Supply voltages (Tolerance +6% / -10%)
- 50 Hz, 1 Phase, 220 - 230 V
- 50 Hz, 3 Phase, 380 - 415 V
- Degree pf protection : IP68
- Duty cycle : S1 Continuous
- Ambient temperature : 45°C
- Rotation : CCW from top
- Maximum nos. of starts/hour : 20
- Water pH : 6.5 - 8
- Use cooling sleeve for borewell size larger than 200mm
- Minimum cooling flow along the motor : 0.2 m/sec
- Mounting : Vertical

FEATURES

- Completely rewindable.
- Cooling and lubrication by nontoxic fluid.
- Special coated Copper rotor shaft for longer life.
- High quality carbon v/s SS thrust bearing.
- High efficiency electrical design. (lower operating cost)
- 6" NEMA coupling
- Pressure compensation diaphragm.

PART	STANDARD
	CAST IRON
▪ Motor Shaft	Stainless Steel
▪ Cable	EPR/PVC
▪ Sand Guard	NBR
▪ Stud/Hardware	SS
▪ Shaft Seal	NBR
▪ Upper Bearing Housing	CI FG-200
▪ Bush	Carbon
▪ Stator Shell	SS
▪ Rotor	Copper
▪ Lower Bearing Housing	CI FG-200
▪ Motor Base	CI FG-200
▪ Diaphragm	NBR

HEXA - 6" REWINDABLE MOTOR

PERFORMANCE DATA

50 Hz.

6" Rewindable Motor - Performance Data 50Hz [3-Ph.] - Open Type Design																	
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{max} [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]	Length [mm]	Weight [kg]
HP	KW							50	75	100	50	75	100				
7.5	5.5	15500	380	2850	13.0	14.2	52.7	77.0	79.0	80.0	0.70	0.77	0.83	18.4	33.2	635.0	49.0
			415	2860	12.7	13.8	51.1	77.0	78.0	79.0	0.70	0.79	0.81	18.1	32.7		
10.0	7.5	15500	380	2850	18	18.5	68.9	78.0	80.0	81.0	0.69	0.76	0.82	25.1	45.3	675.0	55.0
			415	2860	17.5	18.1	65.0	77.0	79.0	80.0	0.69	0.75	0.81	24.7	44.6		
12.5	9.3	15500	380	2850	21.3	23.2	86.3	78.0	80.0	81.0	0.65	0.73	0.81	31.2	56.1	705.0	58.0
			415	2860	20.5	22.3	81.0	77.0	79.0	80.0	0.63	0.72	0.80	30.9	55.8		
15.0	11.0	15500	380	2850	26	28.3	105.3	79.0	81.0	82.0	0.70	0.76	0.82	36.9	66.4	858	71
			415	2860	25.2	27.5	98.0	78.0	80.0	81.0	0.68	0.75	0.81	36.3	65.5		
17.5	13.0	15500	380	2850	26.5	28.9	107.3	79.0	81.0	82.0	0.64	0.73	0.81	43.6	78.5	908	76
			415	2860	24.8	27.0	130.0	78.0	80.0	81.0	0.63	0.71	0.79	42.7	77.1		
20.0	15.0	15500	380	2850	33.8	36.8	136.9	79.0	81.0	82.0	0.72	0.78	0.83	50.3	90.5	938	79
			415	2860	33.0	36.0	133.7	78.0	80.0	81.0	0.69	0.75	0.81	49.3	89.0		
25.0	18.5	15500	380	2850	40.5	42.5	164	79.0	82.0	83.0	0.7	0.77	0.83	62	111.6	1008	88
			415	2860	40.0	42.7	164.8	78.0	81.0	82.0	0.68	0.74	0.80	61.1	110.3		
30.0	22.5	15500	380	2850	47.6	50.0	192.8	80.0	82.0	83.0	0.72	0.78	0.84	75.4	135.8	1078	95
			415	2860	46.7	49.0	189.1	79.0	80.0	81.0	0.68	0.75	0.81	72.2	130.3		
35.0	26.0	15500	380	2850	57.5	60.4	268	83.0	84.0	83.0	0.68	0.79	0.86	86	120.4	1094	88
			415	2860	56.5	59.3	268	81.0	81.0	82.0	0.66	0.76	0.84	85.3	153.9		
40.0	30.0	27500	380	2850	66.4	69.1	328	82.0	84.0	83.0	0.67	0.78	0.84	98.8	135	1210	104.3
			415	2860	65	67.6	328	81.0	81.0	82.0	0.65	0.76	0.82	98.2	177.2		
50.0	37.0	27500	380	2850	82	85.3	409	83.0	84.0	83.0	0.67	0.78	0.85	122.1	192.8	1275	110
			415	2860	81.2	84.4	409	81.0	83.0	82.0	0.65	0.75	0.82	121.3	218.9		

6" Rewindable Motor - Performance Data 50Hz [3-Ph.] - Close Type Design																	
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{max} [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]	Length [mm]	Weight [kg]
HP	KW							50	75	100	50	75	100				
3.0	2.2	15500	380	2820	5.9	6.4	23.9	68.0	71.0	72.0	0.70	0.77	0.83	7.6	13.6	560	39
			415	2830	5.5	6.0	22.0	66.0	70.0	71.0	0.66	0.74	0.81	7.2	13.0		
5.0	3.7	15500	380	2850	9.1	9.9	36.9	73.0	75.0	76.0	0.69	0.75	0.81	12.6	22.6	580	44
			415	2860	8.7	9.5	34.8	72.0	73.0	75.0	0.66	0.72	0.76	12.1	21.8		
6.0	4.5	15500	380	2850	11.0	12.0	44.6	74.0	77.0	78.0	0.60	0.70	0.80	15.0	27.0	590	47
			415	2860	10.6	11.6	42.4	72.0	75.0	76.0	0.58	0.68	0.78	14.7	26.5		
7.5	5.5	15500	380	2850	13.0	14.2	52.7	77.0	79.0	80.0	0.70	0.77	0.83	18.4	33.2	635	49
			415	2860	12.7	13.8	53.0	77.0	78.0	79.0	0.70	0.79	0.81	18.1	32.7		
10.0	7.5	15500	380	2850	18.0	18.5	68.9	78.0	80.0	81.0	0.69	0.76	0.82	25.1	45.3	675	55
			415	2860	17.5	18.1	65.0	77.0	79.0	80.0	0.69	0.75	0.81	24.7	44.6		
12.5	9.3	15500	380	2850	21.3	23.2	86.3	78.0	80.0	81.0	0.65	0.73	0.81	31.2	56.1	705	58
			415	2860	20.5	22.3	81.0	77.0	79.0	80.0	0.63	0.72	0.80	30.9	55.8		

P_n : Rated Power U_n : Rated Voltage I_A : Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A : Locked Rotor Torque

Note : These specifications are based on existing design, which may change for the betterment of performance.

HEXA - 6" REWINDABLE MOTOR (Open Type)

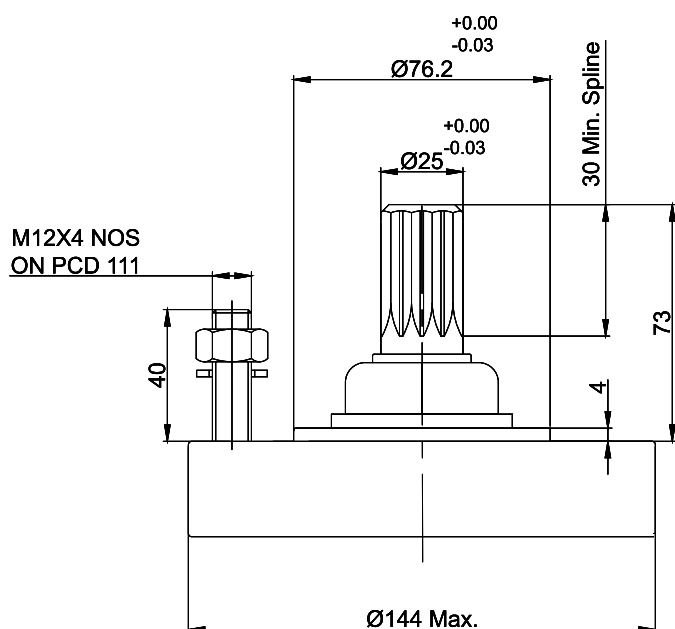


SPECIFICATIONS

- Ratings: Three Phase - 2.2 to 37 kW
- Supply voltages (Tolerance +6% / -10%):
• 60 Hz, 3 Phase, 230V, 380V & 460 V
- Degree pf protection : IP68
- Duty cycle : S1 Continuous
- Ambient temperature : 45 C°
- Rotation : CCW from top
- Maximum nos. of starts/hour : 20
- Water pH : 6.5 - 8
- Use cooling sleeve for borewell size larger than 200mm
- Minimum cooling flow along the motor : 0.2 m/sec
- Mounting : Vertical

FEATURES

- Completely rewindable.
- Cooling and lubrication by nontoxic fluid.
- Special coated Copper rotor shaft for longer life.
- High quality carbon v/s SS thrust bearing.
- High efficiency electrical design.
(lower operating cost)
- 6" NEMA coupling
- Pressure compensation diaphragm.



PART	STANDARD
	CAST IRON
▪ Motor Shaft	Stainless Steel
▪ Cable	EPR/PVC
▪ Sand Guard	NBR
▪ Stud/Hardware	SS
▪ Shaft Seal	NBR
▪ Upper Bearing Housing	CI FG-200
▪ Bush	Carbon
▪ Stator Shell	SS
▪ Rotor	Copper
▪ Lower Bearing Housing	CI FG-200
▪ Motor Base	CI FG-200
▪ Diaphragm	NBR

HEXA - 6" REWINDABLE MOTOR

PERFORMANCE DATA

60 Hz.

6" Rewindable Motor - Performance Data 60Hz [3-Ph.] - Open Type Design															
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n max} [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]
HP	KW							50	75	100	50	75	100		
5.5	4	15500	230	3520	21	22	106	70.0	72.0	77.0	52	64	73	12.5	18.6
			380	3530	13.3	14	61	66.0	76.0	77.0	51	63	71	12.4	15
			460	3520	10.1	11	51	70.0	78.0	78.0	56	67	75	12.5	15.3
7.5	5.5	15500	230	3490	26.1	28	106	74.0	78.0	78.0	61	73	80	17.3	15.9
			380	3480	15.4	16	61	76.0	77.0	78.0	64	75	81	17.3	15
			460	3480	12.9	14	51	74.0	79.0	77.0	65	76	82	17.3	15.1
10	7.5	15500	230	3490	35.9	38	146	75.0	79.0	79.0	58	71	78	23.6	22.4
			380	3480	20.8	22	81	76.0	78.0	79.0	64	75	81	23.6	20.2
			460	3470	17.2	18	64	75.0	79.0	78.0	67	77	82	23.7	19.4
12.5	9.3	15500	230	3490	44.4	48	183	75.0	80.0	79.0	59	71	78	29.3	28.9
			380	3470	25.6	27	100	77.0	80.0	80.0	64	75	81	29.4	25.9
			460	3460	20.8	22	78	78.0	80.0	80.0	67	78	82	29.4	24.4
15	11	15500	230	3490	51.2	54	220	77.0	81.0	81.0	60	72	79	34.6	35.6
			380	3490	30.3	32	129	77.0	81.0	81.0	62	74	80	34.5	34.3
			460	3480	25	27	98	78.0	80.0	80.0	68	77	83	34.7	31.5
17.5	13	15500	230	3500	62.4	66	288	76.0	81.0	81.0	55	68	76	40.7	50.5
			380	3500	36.3	39	164	77.0	81.0	82.0	59	71	78	40.7	47.2
			460	3490	29	31	125	78.0	83.0	81.0	65	76	82	40.9	43.3
20	15	15500	230	3500	65.9	69	325	80.0	83.0	83.0	63	74	81	47	59.5
			380	3490	39.1	42	188	81.0	83.0	83.0	66	77	82	47.2	56.5
			460	3490	32.1	34	151	80.0	81.0	83.0	68	78	84	47.1	55.6
25	18.5	15500	230	3490	85.4	89	402	77.0	80.0	82.0	59	71	78	58.1	81.8
			380	3490	52.5	56	249	76.0	82.0	81.0	58	70	77	58.1	83.6
			460	3480	40.6	43	184	80.0	84.0	82.0	65	76	81	58.4	74.5
30	22	15500	230	3510	100.2	104	520	82.0	84.0	84.0	65	74	77	68.8	96.6
			380	3510	59.9	64	309	82.0	84.0	84.0	67	75	78	68.8	94.9
			460	3500	47.1	50	232	83.0	85.0	84.0	72	79	82	69.1	85.8
35	26	15500	230	3510	118.3	123	657	83.0	85.0	85.0	63	72	76	81.3	135
			380	3500	67.5	71	360	83.0	85.0	85.0	62	74	81	81.6	121.4
			460	3500	55.7	59	287	83.0	82.0	85.0	64	76	84	81.6	117.2
40	30	27500	230	3510	135.7	140	758	78.0	83.0	83.0	58	71	78	93.8	139.6
			380	3510	79.6	84	436	79.0	84.0	84.0	62	74	81	93.9	132.9
			460	3500	64.4	68	346	81.0	81.0	84.0	64	75	82	94	126.4
50	37	27500	230	3510	169.9	175	937	77.0	81.0	82.0	59	71	78	115.8	193.6
			380	3510	102.8	107	567	77.0	84.0	82.0	59	71	78	115.8	193.6
			460	3500	79.1	83	430	82.0		85.0	63	75	81	116	177.8

P_n : Rated Power U_n : Rated Voltage I_A Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A Locked Rotor Torque

Note : These specifications are based on existing design, which may change for the betterment of performance.

HEXA - 6" REWINDABLE MOTOR

PERFORMANCE DATA

60 Hz.

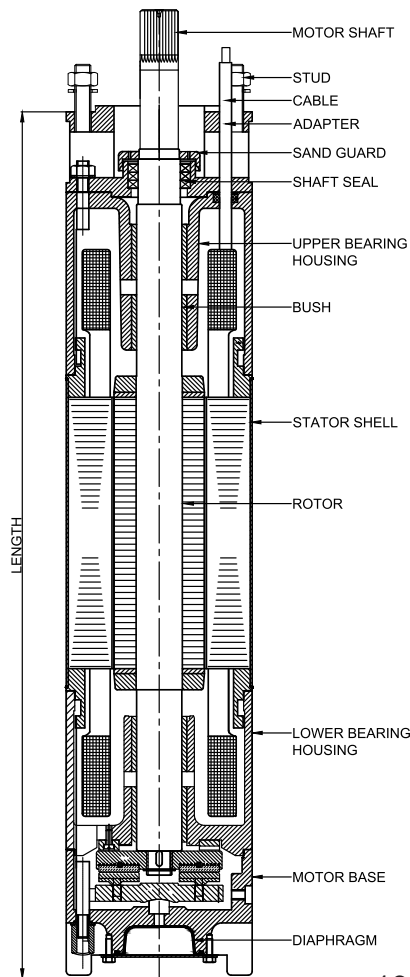
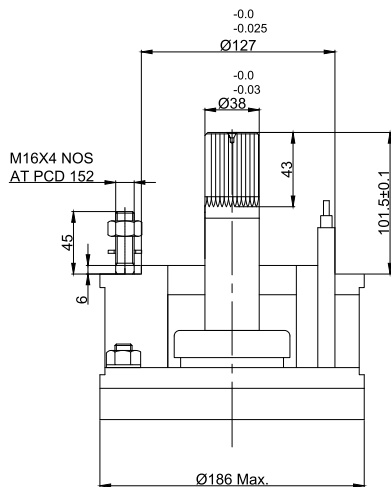
6" Rewindable Motor - Performance Data 60Hz [3-Ph.] - Close Type Design															
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n max} [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]
HP	KW							50	75	100	50	75	100		
5.5	4	15500	230	3520	21	22	106	70.0	75.0	77.0	52	64	73	12.5	18.6
			380	3530	13.3	14	61	66.0	72.0	77.0	51	63	71	12.4	15
			460	3520	10.1	11	51	70.0	76.0	78.0	56	67	75	12.5	15.3
7.5	5.5	15500	230	3490	26.1	28	106	74.0	78.0	78.0	61	73	80	17.3	15.9
			380	3480	15.4	16	61	76.0	78.0	78.0	64	75	81	17.3	15
			460	3480	12.9	14	51	74.0	77.0	77.0	65	76	82	17.3	15.1
10	7.5	15500	230	3490	35.9	38	146	75.0	79.0	79.0	58	71	78	23.6	22.4
			380	3480	20.8	22	81	76.0	79.0	79.0	64	75	81	23.6	20.2
			460	3470	17.2	18	64	75.0	78.0	78.0	67	77	82	23.7	19.4
12.5	9.3	15500	230	3490	44.4	47	183	75.0	79.0	79.0	59	71	78	29.3	28.9
			380	3470	25.6	27	100	77.0	80.0	80.0	64	75	81	29.4	25.9
			460	3460	20.8	22	78	78.0	80.0	80.0	67	78	82	29.4	24.4
15	11	15500	230	3490	51.2	54	220	77.0	80.0	81.0	60	72	79	34.6	35.6
			380	3490	30.3	32	129	77.0	81.0	81.0	62	74	80	34.5	34.3
			460	3480	25	27	98	78.0	81.0	80.0	68	77	83	34.7	31.5

P_n : Rated Power U_n : Rated Voltage I_A Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A Locked Rotor Torque

Note : These specifications are based on existing design, which may change for the betterment of performance.

OCTA - 8" REWINDABLE MOTOR



SPECIFICATIONS

- Ratings: Three Phase - 18.5 to 93 kW
- Supply voltages (Tolerance +6% / -10%)
- 50 Hz, 3 Phase, 380 - 415 V
- 60 Hz, 3 Phase, 380 - 460 V
- Degree pf protection : IP68
- Duty cycle : S1 Continuous
- Ambient temperature : 45°C
- Rotation : CCW from top
- Maximum nos. of starts/hour : 20
- Water pH : 6.5 - 8
- Use cooling sleeve for borewell size larger than 200mm
- Minimum cooling flow along the motor :
30-52 kW = 0.2 m/sec
55-75 kW = 0.5 m/sec
- Mounting : Vertical

FEATURES

- Completely rewindable.
- Cooling and lubrication by nontoxic fluid.
- Special coated Copper rotor shaft for longer life.
- High quality carbon v/s SS thrust bearing.
- High efficiency electrical design. (lower operating cost)
- 8" NEMA coupling
- Pressure compensation diaphragm.

PART	STANDARD
	CAST IRON
▪ Motor Shaft	Stainless Steel
▪ Cable	EPR/PVC
▪ Sand Guard	NBR
▪ Adapter	CI FG-200
▪ Stud/Hardware	SS
▪ Shaft Seal	NBR
▪ Upper Bearing Housing	CI FG-200
▪ Bush	Carbon
▪ Stator Shell	SS
▪ Rotor	Copper
▪ Lower Bearing Housing	CI FG-200
▪ Motor Base	CI FG-200
▪ Diaphragm	NBR

OCTA - 8" REWINDABLE MOTOR

PERFORMANCE DATA

50 Hz.

8" Rewindable Motor - Performance Data 50Hz [3-Ph.]																	
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _p max [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]	Length [mm]	Weight [kg]
HP	KW							50	75	100	50	75	100				
25	18.5	45000	380	2830	44	46	162	81.0	79.5	81.1	0.69	0.72	0.81	62	75.2	905	111
		45000	415	2850	42	44	177	76.0	81.0	81.7	0.55	0.68	0.75	61	91.3		
30	22	45000	380	2860	48	50	167	82.0	81.0	82.5	0.7	0.76	0.83	73	91.2	955	120
		45000	415	2870	46	48	182	75.0	80.0	80.9	0.57	0.68	0.79	72	110		
35	26	45000	380	2870	61	64	215	82.5	83.0	82.5	0.68	0.78	0.82	88	120	1005	127
		45000	415	2880	57	60	234	78.0	82.0	81.8	0.66	0.75	0.79	87	146		
40	30	45000	380	2880	63	66	300	83.5	84.4	83.1	0.89	0.88	0.89	99	126	1059	144
		45000	415	2910	58	61	332	83.5	85.2	84.9	0.77	0.89	0.88	98	151		
50	37	45000	380	2890	79	83	378	84.6	85.3	83.9	0.8	0.86	0.88	122	156	1233	164
		45000	415	2910	75	79	412	82.6	84.5	84.3	0.7	0.8	0.84	121	190		
60	45	45000	380	2900	93	97	491	85.8	86.4	85.2	0.79	0.86	0.88	149	218	1283	177
		45000	415	2910	89	93	541	84.51	86.2	85.8	0.69	0.79	0.84	148	263		
70	52	45000	380	2900	107	111	575	86.5	86.7	85.3	0.81	0.87	0.89	175	284	1333	190
		45000	415	2920	101	105	633	85.6	87.0	86.7	0.71	0.8	0.85	174	345		
75	55	45000	380	2900	114	117	624	86.5	86.9	85.7	0.78	0.85	0.88	182	301	1383	203
		45000	415	2920	109	112	688	84.8	86.4	86.2	0.67	0.78	0.83	181	366		
80	60	45000	380	2900	122	126	698	87.2	87.6	86.5	0.81	0.87	0.89	198	319	1470	230
		45000	415	2920	115	118	768	86.1	87.4	87.1	0.73	0.82	0.86	197	387		
90	67	45000	380	2900	137	141	759	87.2	87.6	86.4	0.79	0.86	0.89	220	352	1470	230
		45000	415	2920	131	135	828	85.6	87.0	86.6	0.69	0.79	0.84	219	427		
100	75	45000	380	2900	154	157	892	86.7	87.1	85.9	0.79	0.86	0.89	247	419	1560	248
		45000	415	2920	147	150	982	85.4	86.9	86.6	0.69	0.79	0.84	245	510		
110	83	45000	380	2910	166	169	1019	87.8	88.3	87.2	0.81	0.87	0.90	275	483	1740	280
		45000	415	2925	156	159	1120	87.2	88.4	88.0	0.73	0.82	0.86	273	586		
125	93	45000	380	2910	188	192	1186	87.8	88.4	87.5	0.77	0.85	0.88	306	557	1740	280
		45000	415	2930	184	188	1308	86.2	87.7	87.7	0.64	0.76	0.83	305	676		

P_n : Rated Power U_n : Rated Voltage I_A Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A Locked Rotor Torque

Note : These specifications are based on existing design, which may change for the betterment of performance.

OCTA - 8" REWINDABLE MOTOR

PERFORMANCE DATA

60 Hz.

8" Rewindable Motor - Performance Data 60Hz [3-Ph.]															
P _n		Thrust F(N)	U _n [v]	n _n [RPM]	I _n [A]	I _{n max} [A]	I _A [A]	η [%] at % load			Cos ϕ [PF] at % load			T _n [Nm]	T _A [Nm]
HP	KW							50	75	100	50	75	100		
40	30	45 000	380	3500	74	76	394	824	846	845	80	86	88	99	141
			460	3490	61	63	324	815	836	835	82	87	89	99	130
50	37	45 000	380	3510	92	95	514	830	852	854	72	81	85	122	178
			460	3490	75	77	407	838	853	848	77	84	87	123	162
60	45	45 000	380	3500	108	111	660	836	857	858	73	81	86	149	240
			460	3500	89	92	524	850	866	863	77	84	87	149	221
70	52	45 000	380	3510	125	129	765	854	870	869	75	83	87	175	300
			460	3505	102	105	606	850	866	862	79	86	88	175	276
75	55	45 000	380	3510	132	136	842	844	865	865	71	80	87	182	321
			460	3510	109	112	657	858	871	867	77	84	87	181	287
80	60	45 000	380	3510	141	144	931	862	877	877	77	84	87	198	362
			460	3510	116	118	734	854	869	867	80	86	88	198	332
90	67	45 000	380	3520	142	145	1037	844	864	867	73	82	84	220	396
			460	3510	131	134	803	857	872	869	77	85	87	220	366
100	75	45 000	380	3510	175	179	1143	863	878	874	77	85	88	247	427
			460	3510	145	148	947	863	878	874	77	85	88	247	427
110	83	45 000	380	3510	191	195	1377	860	880	880	75	83	89	274	532
			460	3510	158	161	1090	865	879	877	80	86	89	275	489
125	93	45 000	380	3510	218	22	1586	880	886	884	77	83	87	306	613
			460	3510	180	184	1256	867	883	883	76	83	87	306	561

P_n : Rated Power U_n : Rated Voltage I_A Locked Rotor Current

T_n : Rated Torque I_n : Rated Current T_A Locked Rotor Torque

Note : These specifications are based on existing design, which may change for the betterment of performance.



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