



STAR EXPORT HOUSE
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**STRONG.
REWINDABLE.
EFFICIENT.**



SHAKTI SUBMERSIBLE MOTORS
6" MTSF
PRODUCT INFORMATION MANUAL

SHAKTI
PUMPING LIFE

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SUMMARY

6" MTSF PRODUCT INFORMATION

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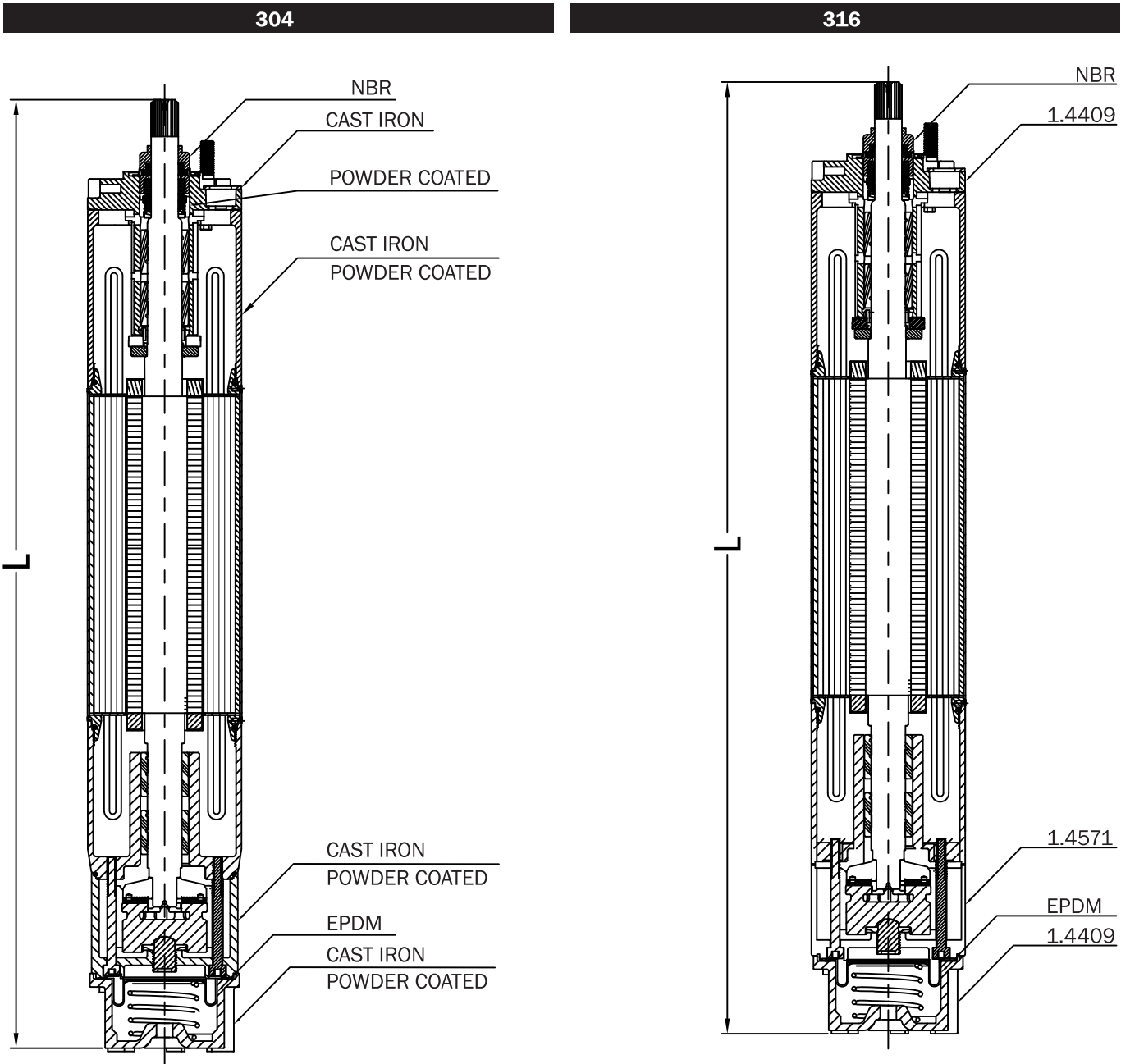
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SUBMERSIBLE MOTORS				
Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW - 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

6" Rewindable Motors Sectional View



SUBMERSIBLE MOTORS				
Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

6" Rewindable Motor Product Information

Applications

6" Rewindable motors are built for dependable operation in 6" diameter or larger water wells. Water lubricated thrust and radial bearings enable a maintenance free operation. The motors are ready to operate, providing frost protection down to -15°C.

Fill and check valve, as well as a preloaded special diaphragm, ensure pressure compensation inside the motor. (inside pressure 0.5 - 0.7 bar)

Other Product advantages:

- Cable material according to drinking water regulations
- Sand slinger and shaft seal for high performance in sand
- High efficiency electrical design for low operation cost
- All motors prefilled and 100% tested
- Design for retrofitable PT100 sensor

Technical Specifications

Standard Motor

- 6" NEMA – flange with Studs (M 12)
- Protection: IP 68
- Starts per hour: max. 20
- Installation position: vertical / horizontal
- Motor Lead in 4m length
- Voltage tolerance: +6% / -10%
(Standard: 415 + 6% = 440V, 380 - 10% = 342V)
- Motor protection : Select Thermal overload
- Standard motor with Taping winding insulation for max. ambient of 30°C with a min.
Cooling flow: 4 kW - 15 kW / 5.5 HP - 11 HP V = 20 cm/s
18.5 kW- 37 kW/ 12.5 HP - 50 HP V = 50 cm/s

Optional

- Motors in complete 316
- PT 100 temperature sensor (sold separately)
- Motor with SiC-Shaft Seal
- Drop cable in different lengths up to 50m

Material AISI

Part	304 (Standard)	316
Shell	(SS AISI 304)	(SS AISI 316)
Endbell, Diaphragm cover	Cast Iron / powder coated	(SS AISI 316)
Housing thrust bearing	Cast Iron / powder coated	(SS AISI 316)
Seals	BUNA N	BUNA N
Seal Cover	(SS AISI 304)	(SS AISI 316)
Shaft Seal	SiC	SiC
Shaft end 4kW – 22kW / 5.5 HP - 30 HP	(SS AISI 420)	(SS AISI 316)
Shaft end 26kW–37kW/ 35 HP - 50 HP	(SS AISI 420)	(SS AISI 316)
Diaphragm	EPDM	EPDM
Lead	EPR	EPR

SUBMERSIBLE MOTORS				
Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

6" Rewindable Motors - Model Numbers 50 / 60 Hz

HP	kW	[V] / [Hz]	CONNECTION-INNER DELTA		MODEL - A
			CI	304	316
5.5	4	380/400/415 50Hz	9000006071	9000006263	9000006167
		415/460 60Hz			
7.5	5.5	380/400/415 50Hz	9000006072	9000006264	9000006168
		415/460 60Hz			
10	7.5	380/400/415 50Hz	9000006073	9000006265	9000006169
		415/460 60Hz			
12.5	9.3	380/400/415 50Hz	9000006074	9000006266	9000006170
		415/460 60Hz			
15	11	380/400/415 50Hz	9000006075	9000006267	9000006171
		415/460 60Hz			
17.5	13	380/400/415 50Hz	9000006076	9000006268	9000006172
		415/460 60Hz			
20	15	380/400/415 50Hz	9000006077	9000006269	9000006173
		415/460 60Hz			
25	18.5	380/400/415 50Hz	9000006078	9000006270	9000006174
		415/460 60Hz			
30	22	380/400/415 50Hz	9000006079	9000006271	9000006175
		415/460 60Hz			
35	26	380/400/415 50Hz	9000006080	9000006272	9000006176
		415/460 60Hz			
40	30	380/400/415 50Hz	9000006081	9000006273	9000006177
		415/460 60Hz			
50	37	380/400/415 50Hz	9000006082	9000006274	9000006178
		415/460 60Hz			

HP	kW	[V] / [Hz]	CONNECTION-STAR DELTA		MODEL - B
			C I	304	316
5.5	4	380/400/415 50Hz	900006083	900006275	900006179
		460 60Hz			
7.5	5.5	380/400/415 50Hz	900006084	900006276	900006180
		460 60Hz			
10	7.5	380/400/415 50Hz	900006085	900006277	900006181
		460 60Hz			
12.5	9.3	380/400/415 50Hz	900006086	900006278	900006182
		460 60Hz			
15	11	380/400/415 50Hz	900006087	900006279	900006183
		460 60Hz			
17.5	13	380/400/415 50Hz	900006088	900006280	900006184
		460 60Hz			
20	15	380/400/415 50Hz	900006089	900006281	900006185
		460 60Hz			
25	18.5	380/400/415 50Hz	900006090	900006282	900006186
		460 60Hz			
30	22	380/400/415 50Hz	900006091	900006283	900006187
		460 60Hz			
35	26	380/400/415 50Hz	900006092	900006284	900006188
		460 60Hz			
40	30	380/400/415 50Hz	900006093	900006285	900006189
		460 60Hz			
50	37	380/400/415 50Hz	900006094	900006286	900006190
		460 60Hz			

HP	kW	[V] / [Hz]	CONNECTION-INNER DELTA		MODEL - E
			C I	304	316
5.5	4	230 60Hz	900006119	900006311	900006215
7.5	5.5	230 60Hz	900006120	900006312	900006216
10	7.5	230 60Hz	900006121	900006313	900006217
12.5	9.3	230 60Hz	900006122	900006314	900006218
15	11	230 60Hz	900006123	900006315	900006219
17.5	13	230 60Hz	900006124	900006316	900006220
20	15	230 60Hz	900006125	900006317	900006221
25	18.5	230 60Hz	900006126	900006318	900006222
30	22	230 60Hz	900006127	900006319	900006223
35	26	230 60Hz	900006128	900006320	900006224

HP	kW	[V] / [Hz]	CONNECTION-STAR		MODEL - F
			C I	304	316
5.5	4	380 60Hz	9000006131	9000006323	9000006227
7.5	5.5	380 60Hz	9000006132	9000006324	9000006228
10	7.5	380 60Hz	9000006133	9000006325	9000006229
12.5	9.3	380 60Hz	9000006134	9000006326	9000006230
15	11	380 60Hz	9000006135	9000006327	9000006231
17.5	13	380 60Hz	9000006136	9000006328	9000006232
20	15	380 60Hz	9000006137	9000006329	9000006233
25	18.5	380 60Hz	9000006138	9000006330	9000006234
30	22	380 60Hz	9000006139	9000006331	9000006235
35	26	380 60Hz	9000006140	9000006332	9000006236
40	30	380 60Hz	9000006141	9000006333	9000006237
50	37	380 60Hz	9000006142	9000006334	9000006238

HP	kW	[V] / [Hz]	CONNECTION-STAR DELTA		MODEL - EF
			C I	304	316
5.5	4	230/380 60Hz	9000011937	9000012425	9000012430
7.5	5.5	230/380 60Hz	9000012179	9000012426	9000012432
10	7.5	230/380 60Hz	9000012015	9000012016	9000012433
12.5	9.3	230/380 60Hz	9000012178	9000012427	9000012434
15	11	230/380 60Hz	9000011606	9000011608	9000012435
17.5	13	230/380 60Hz	9000012176	9000012428	9000012436
20	15	230/380 60Hz	9000011028	9000011566	9000012437
25	18.5	230/380 60Hz	9000011029	9000011567	9000012438
30	22	230/380 60Hz	9000010939	9000011568	9000012439
35	26	230/380 60Hz	9000012177	9000012429	9000012440
40	30	230/380 60Hz	9000006129	9000011569	9000012441
50	37	230/380 60Hz	9000006130	9000011570	9000012442

SUBMERSIBLE MOTORS														
Material	GG, Stainless Steel 304 / 316					Rating	3.7 kW – 37 kW			5 HP - 50 HP				
Type	Rewindable MTSFC/ MTSFN					Thrust Rating	15500 - 27500							
6" Rewindable Motors Performance Data 50 Hz														
HP	P _N [kW]	Thrust F[N]	U _N [V]	N _n [min-1]	I _N [A]	I _A [A]	η (Eff.) [%] at % load			COSØ [PF] at % load			T _N [Nm]	T _A [Nm]
							50	75	100	50	75	100		
5	3.7	15500	380	2910	10.4	48	0.71	0.75	0.76	0.59	0.71	0.78	13.10	15.50
			400	2930	10.6	51	0.68	0.73	0.76	0.53	0.65	0.73	13.10	17.30
			415	2930	10.9	53	0.65	0.72	0.76	0.50	0.61	0.69	13.00	18.80
5.5	4	15500	380	2910	10.4	48	0.71	0.75	0.76	0.59	0.71	0.78	13.10	15.50
			400	2930	10.6	51	0.68	0.73	0.76	0.53	0.65	0.73	13.10	17.30
			415	2930	10.9	53	0.65	0.72	0.76	0.50	0.61	0.69	13.00	18.80
7.5	5.5	15500	380	2860	13.7	48	0.74	0.76	0.75	0.67	0.78	0.83	18.30	15.50
			400	2890	13.3	51	0.72	0.76	0.76	0.62	0.74	0.81	18.20	17.30
			415	2890	13.4	53	0.71	0.75	0.75	0.59	0.71	0.78	18.10	18.80
10	7.5	15500	380	2860	18.3	59	0.77	0.78	0.76	0.70	0.80	0.84	25.00	19.20
			400	2880	17.7	63	0.75	0.78	0.77	0.65	0.76	0.82	24.80	21.50
			415	2890	17.7	65	0.73	0.77	0.77	0.61	0.73	0.80	24.70	23.40
12.5	9.3	15500	380	2850	22	74	0.79	0.80	0.78	0.71	0.80	0.84	31.10	25.90
			400	2870	21.4	78	0.78	0.79	0.78	0.64	0.76	0.82	31.00	29.00
			415	2880	21.2	81	0.76	0.79	0.78	0.60	0.72	0.80	30.90	31.40
15	11	15500	380	2860	25.8	93	0.78	0.80	0.78	0.71	0.80	0.85	36.70	31.50
			400	2880	25.2	98	0.77	0.80	0.79	0.65	0.76	0.83	36.40	35.50
			415	2890	25.1	102	0.75	0.78	0.79	0.61	0.73	0.80	36.30	38.20
17.5	13	15500	380	2880	30.1	118	0.80	0.81	0.80	0.68	0.79	0.84	43.10	45.00
			400	2900	29.6	125	0.78	0.80	0.80	0.61	0.74	0.81	42.80	50.30
			415	2900	29.7	130	0.76	0.79	0.80	0.57	0.70	0.78	42.70	54.60
20	15	15500	380	2880	33.9	140	0.81	0.82	0.81	0.71	0.81	0.85	49.70	53.90
			400	2890	33.1	148	0.79	0.81	0.81	0.65	0.77	0.83	49.40	60.40
			415	2900	33	154	0.77	0.80	0.81	0.60	0.73	0.81	49.30	65.50
25	18.5	27500	380	2860	42.3	172	0.81	0.82	0.81	0.68	0.78	0.84	61.70	75.20
			400	2880	42	182	0.78	0.81	0.81	0.61	0.74	0.80	61.20	84.30
			415	2890	42.5	189	0.76	0.79	0.80	0.57	0.70	0.77	61.10	91.30
30	22	27500	380	2880	49.1	218	0.82	0.84	0.83	0.68	0.78	0.84	72.60	91.20
			400	2900	49	231	0.80	0.82	0.82	0.61	0.73	0.80	72.50	102.20
			415	2910	49.6	240	0.77	0.81	0.82	0.56	0.69	0.77	72.20	110.70
35	26	27500	380	2880	57.5	268	0.83	0.84	0.83	0.68	0.79	0.86	86.00	120.40
			400	2900	56.7	284	0.81	0.83	0.83	0.61	0.74	0.83	85.60	134.70
			415	2910	57.3	296	0.78	0.82	0.82	0.56	0.69	0.80	85.30	146.10
40	30	27500	380	2900	66.4	328	0.82	0.84	0.83	0.67	0.78	0.84	98.80	135.00
			400	2910	66.4	347	0.80	0.83	0.83	0.60	0.73	0.80	98.40	151.00
			415	2910	67.5	361	0.77	0.81	0.82	0.55	0.68	0.77	98.20	163.00
50	37	27500	380	2890	82	409	0.83	0.84	0.83	0.67	0.78	0.84	122.10	192.80
			400	2900	81.9	433	0.80	0.83	0.83	0.60	0.72	0.80	121.60	215.80
			415	2910	83.9	450	0.77	0.81	0.82	0.55	0.68	0.76	121.30	234.00

SUBMERSIBLE MOTORS																
Material	GG, Stainless Steel 304 / 316							Rating	3.7 kW – 37 kW			5 HP - 50 HP				
Type	Rewindable MTSFC/ MTSFN							Thrust Rating	15500 - 27500							

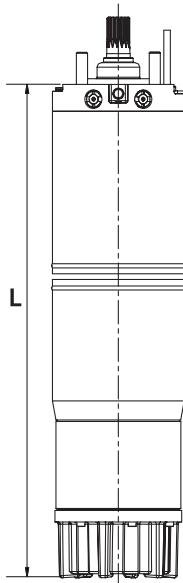
6" Rewindable Motors Performance Data 60 Hz

HP	P _N [kW]	P _{max} [kW]	Thrust F [N]	U _N [V]	[min-1]	I _N [A]	I _A [A]	η (Eff.) [%] at % load			COSØ [PF] at % load			T _N [Nm]	T _A [Nm]
								50	75	100	50	75	100		
5.5	4.0	4.6	15500	230	3520	21.0	106.0	0.70	0.75	0.77	0.52	0.64	0.73	12.5	18.6
				380	3530	13.3	61.0	0.66	0.72	0.77	0.51	0.63	0.71	12.4	15.0
				460	3520	10.1	51.0	0.70	0.76	0.78	0.56	0.67	0.75	12.5	15.3
7.5	5.5	6.3	15500	230	3490	26.1	106.0	0.74	0.78	0.78	0.61	0.73	0.80	17.3	15.9
				380	3480	15.4	61.0	0.76	0.78	0.78	0.64	0.75	0.81	17.3	15.0
				460	3480	12.9	51.0	0.74	0.77	0.77	0.65	0.76	0.82	17.3	15.1
10	7.5	8.6	15500	230	3490	35.9	146.0	0.75	0.79	0.79	0.58	0.71	0.78	23.6	22.4
				380	3480	20.8	81.0	0.76	0.79	0.79	0.64	0.75	0.81	23.6	20.2
				460	3470	17.2	64.0	0.75	0.78	0.78	0.67	0.77	0.82	23.7	19.4
12.5	9.3	10.7	15500	230	3490	44.4	183.0	0.75	0.79	0.79	0.59	0.71	0.78	29.3	28.9
				380	3470	25.6	100.0	0.77	0.80	0.80	0.64	0.75	0.81	29.4	25.9
				460	3460	20.8	78.0	0.78	0.80	0.80	0.67	0.78	0.82	29.4	24.4
15	11.0	12.7	15500	230	3490	51.2	220.0	0.77	0.80	0.81	0.60	0.72	0.79	34.6	35.6
				380	3490	30.3	129.0	0.77	0.81	0.81	0.62	0.74	0.80	34.5	34.3
				460	3480	25.0	98.0	0.78	0.81	0.80	0.68	0.77	0.83	34.7	31.5
17.5	13.0	15	15500	230	3500	62.4	288.0	0.76	0.80	0.81	0.55	0.68	0.76	40.7	50.5
				380	3500	36.3	164.0	0.77	0.81	0.82	0.59	0.71	0.78	40.7	47.2
				460	3490	29.0	125.0	0.78	0.81	0.81	0.65	0.76	0.82	40.9	43.3
20	15.0	17.3	15500	230	3500	65.9	325.0	0.80	0.83	0.83	0.63	0.74	0.81	47.0	49.5
				380	3490	39.1	188.0	0.81	0.83	0.83	0.66	0.77	0.82	47.2	56.5
				460	3490	32.1	151.0	0.80	0.83	0.83	0.68	0.78	0.84	47.1	55.6
25	18.5	21.3	27500	230	3490	85.4	402.0	0.77	0.81	0.82	0.59	0.71	0.78	58.1	81.8
				380	3490	52.5	249.0	0.76	0.80	0.81	0.58	0.70	0.77	58.1	83.6
				460	3480	40.6	184.0	0.80	0.82	0.82	0.65	0.76	0.81	58.4	74.5
30	22.0	25.3	27500	230	3510	100.2	520.0	0.82	0.84	0.84	0.65	0.74	0.77	68.8	96.6
				380	3510	59.9	309.0	0.82	0.84	0.84	0.67	0.75	0.78	68.8	94.9
				460	3500	47.1	232.0	0.83	0.84	0.84	0.72	0.79	0.82	69.1	85.8
35	26.0	29.9	27500	230	3510	118.3	657.0	0.83	0.85	0.85	0.63	0.72	0.76	81.3	135.0
				380	3500	67.5	360.0	0.83	0.85	0.85	0.62	0.74	0.81	81.6	121.4
				460	3500	55.7	287.0	0.83	0.85	0.85	0.64	0.76	0.84	81.6	117.2
40	30.0	34.5	27500	230	3510	135.7	758.0	0.78	0.82	0.83	0.58	0.71	0.78	93.8	139.6
				380	3510	79.6	436.0	0.79	0.83	0.84	0.64	0.75	0.82	94.0	126.4
				460	3500	64.4	346.0	0.81	0.84	0.83	0.58	0.71	0.78	93.8	139.6
50	37.0	42.6	27500	230	3510	135.7	758.0	0.78	0.82	0.83	0.58	0.71	0.78	93.8	139.6
				380	3510	102.8	567.0	0.77	0.81	0.82	0.59	0.71	0.78	115.8	193.6
				460	3500	79.1	430.0	0.82	0.84	0.85	0.63	0.75	0.81	116.0	177.8

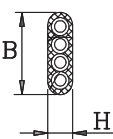
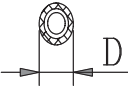
SUBMERSIBLE MOTORS				
Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

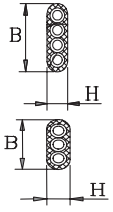
Motor Lengths and Weights

P _N [HP]	P _N [kW]	L * [mm] 304	L * [mm] 316	Motor weights [KG]	
				304/316	incl. pack
5	3.7	699	712	48	53
5.5	4	699	712	48	53
7.5	5.5	699	712	48	53
10	7.5	719	732	50	55
12.5	9.3	749	762	53	58
15	11	779	792	56	61
17.5	13	829	842	61	66
20	15	874	887	66	71
25	18.5	919	932	70	75
30	22	1009	1022	79	84
35	26	1114	1127	90	95
40	30	1214	1127	100	105
50	37	1294	1307	107	112



6" Rewindable Motors Leads @ 400 V

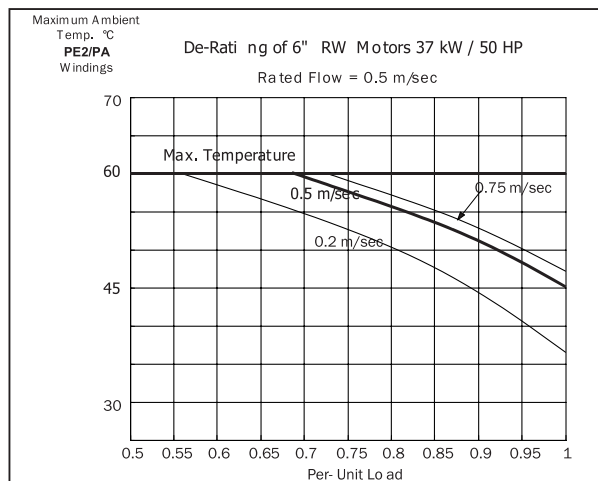
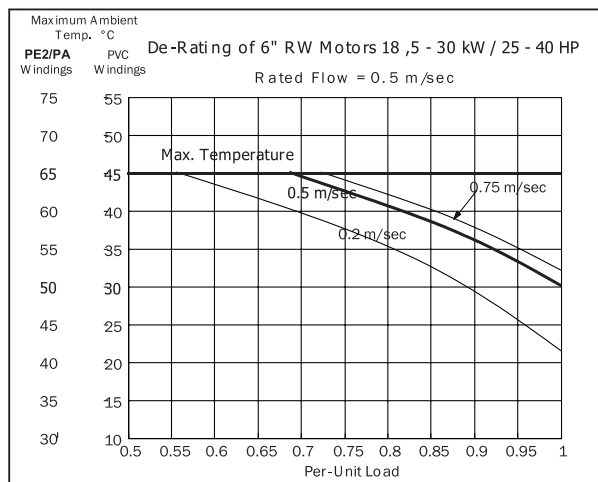
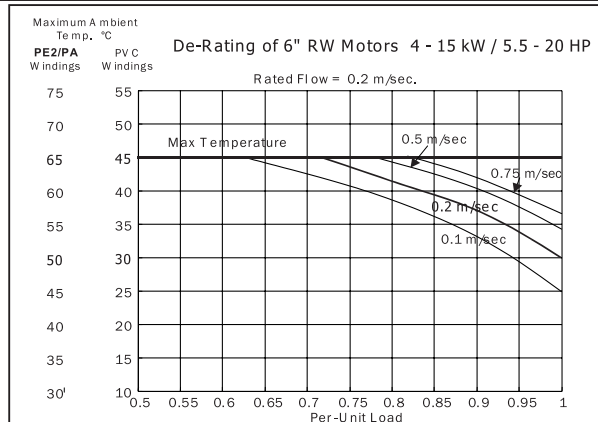
DOL	[kW]	[HP]	St #	Ø [mm ²]	B / H [mm]	Length [m]
	3.7-13	5-7.5	1	4 x 2.5	17.2 x 6.2	4
	15-22	20-30	1	4 x 4	23.5 x 9.0	4
	26-30	35-40	1	4 x 6	26.5 x 9.8	4
	37		1	3 x 10	25.5 x 11.5	4
Ground lead (optional)	P [kW]	P [HP]	#	Ø [mm ²]	B / H [mm]	Length [m]
	37	50	1	10	D=11.5	4

YΔ	[kW]	[HP]	#	Ø [mm ²]	B / H [mm]	Length [m]
	3.7 - 22	5-30	1	3 x 2.5	13.0 x 6.2	4
			1	4 x 2.5	17.2 x 6.2	4
	26 - 37	35-50	1	3 x 4	19.0 x 9.0	4
			1	4 x 4	23.5 x 9.0	4
lead opening seal kit	3.7-37 kW DOL / Y Δ					

SUBMERSIBLE MOTORS

Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

6" Rewindable Motors Performance Data 50 Hz



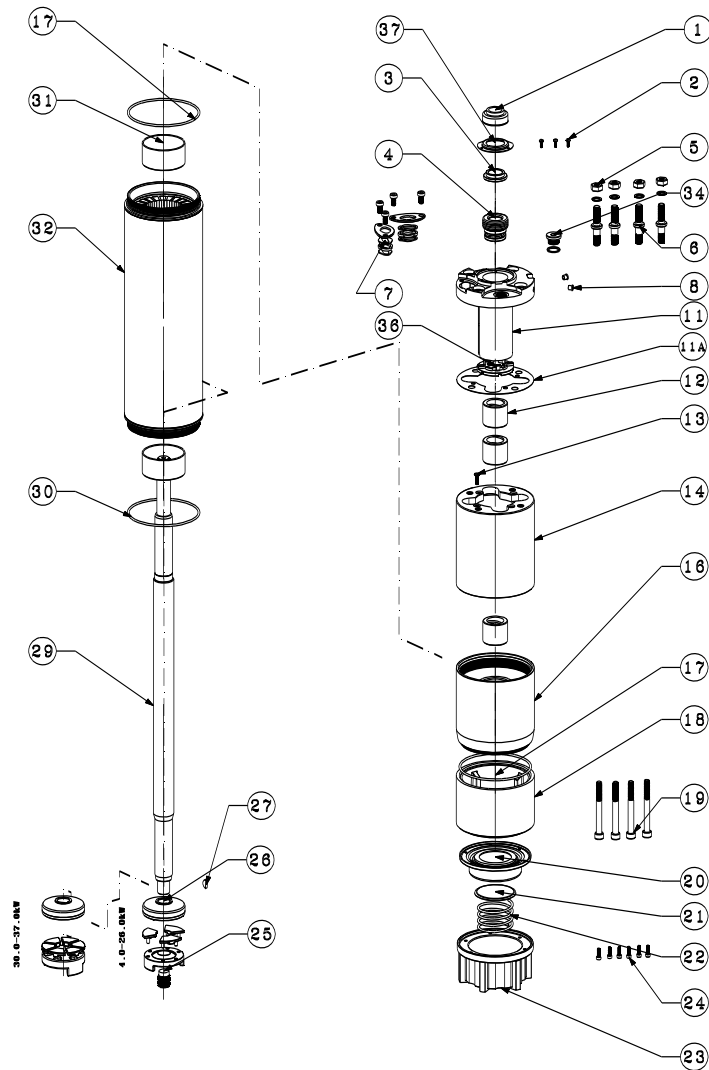
Above conditions are not met please contact Shakti Pumps

SUBMERSIBLE MOTORS

Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
Type	Rewindable MTSFC/ MTSFN	Thrust Rating	15500 - 27500	

Exploded View

Kit1	4-26kW	Pos;17;25;26;27;36
	30-37kW	
Kit2	4-26kW	Pos;12;28
	30-37kW	
Kit3	Standard	Pos;1;2;3;15;37
Kit4	Pos;5;6;9;13;15;19;24;37	
Kit5	Pos;8;10	
Kit6	Pos;7	
Kit7	Pos;35	



SUBMERSIBLE MOTORS

Material	GG, Stainless Steel 304 / 316	Rating	3.7 kW – 37 kW	5 HP - 50 HP
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Pos.	Part Description	Qty.	Part No.	Kit
1	Sand Slinger	1	1000000699	Kit3
2	Screw M4X12, Cover Seal	3	1000000431	Kit3
3	Bush fordust Cover	1	3000001880	N/A
4	Shaft Sral	1	1000000349	Kit3
5	Nut, M12	4	1000000383	Kit4
6	Stud, M12	4	3000001874	Kit4
7	Cyl.Scrw M8X10mm, Lead Seal	4	1000000015	Kit6
	Lead Clamp	2	3000001895	Kit6
	Lead Spacer	2	1000000332	Kit6
	Lead Seal Plate	6	3000001896	Kit6
	Lead Seal	2	3000004069	Kit6
8	Preasure Relief Valve	1	3000003205	N/A
	Filter	2	1000001393	N/A
11	End Bell (Upper) 4-26Kw	1	3000003922	Kit8
	End Bell (Upper) 4-26Kw	1		Kit8
11A	Gasket	1	1000003231	
12	Radial Bushing	.2/4	1000000056	Kit2
13	Cyl. Screw M6X20mm, Earthing inside	1	1000001632	Kit2
14	Winding Cover	1	3000008508	Kit9
16	End Bell(Lower) 4-26Kw	1	3000003921	Kit8
	End Bell(Lower) 30-37Kw	1		Kit8
17	O-Ring 123.42mmx3.53mm	3	1000000963	Kit1
18	Thrust housing	1	3000008466	Kit9
19	Cyl.Screw M10x100mm, thrust housing	4	1000000010	Kit4
20	Diaphram	1	1000000613	Kit3
21	Spring Plate	1	3000001885	Kit4
22	Spring	1	3000003362	Kit3
23	Cover, Diaphragm	1	3000006643	Kit9
24	Cyl. Screw M5x16mm, Cover diaphragm	6	1000000012	Kit4
25	Adjusting Stud	1	3000006625	N/A
26	Thrustdisk, assly	1	3000003206	Kit1
	Segment, assly	.3/6	3000001874	Kit1
	Bearing segment carrier	1	3000001874	Kit1
27	Woodruff key	1	1000001187	Kit1
29	Rotor	1	As Per HP/KW	Kit10
32	Stator	1	As Per HP/KW	Kit10
31	Supporting ring	2	1000000828	Kit4

SUBMERSIBLE MOTORS					
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Type	Rewindable MTSFC/ MTSFN		Thrust Rating	15500 - 27500	

Standard Stator and Rotor Numbers

HP	Stator Assly CI	Stator Assly 304	Stator Assly 316	Rotor Assly CI	Rotor Assly 304	Rotor Assly 316
5.5	3000002223	3000002223	3000002212	3000002166	3000002166	3000002177
7.5	3000002223	3000002223	3000002212	3000002166	3000002166	3000002177
10	3000003158	3000003158	3000002213	3000002167	3000002167	3000002178
12.5	3000002224	3000002224	3000002214	3000002168	3000002168	3000002179
15	3000002225	3000002225	3000002215	3000002169	3000002169	3000002180
17.5	3000002226	3000002226	3000002216	3000002170	3000002170	3000002181
20	3000002227	3000002227	3000002217	3000002171	3000002171	3000002182
25	3000002228	3000002228	3000002218	3000002172	3000002172	3000002183
30	3000002229	3000002229	3000002219	3000002173	3000002173	3000002184
35	3000002230	3000002230	3000002220	3000002174	3000002174	3000002185
40	3000002231	3000002231	3000002221	3000002175	3000002175	3000002186
50	3000002232	3000002232	3000002222	3000002176	3000002176	3000002187

Standard Windings (380-415 / 460 Volt and 50 / 60 Hz)

HP	[kW]	Turns per Coil	Wire diameter [mm]	Type of Isolation	Group connection	Total Wire length [m]	Resistant coil [?]	Resistant Y? [?]	Resistant Dol (U1-V1) [?]
5	3.7	56+56+56+56	1/1.5	PVC	Series	540.0	4.76	5.0400	3.19
5.5	4	56+56+56+56	1/1.5	PVC	Series	540.0	4.76	5.0400	3.19
7.5	5.5	56+56+56+56	1/1.5	PVC	Series	540.0	4.76	5.0400	3.19
10	7.5	47+47+47+47	1.1/1.6	PVC	Series	500.0	3.6	3.9620	2.38
12.5	9.3	41+41+41+41	1.2/1.7	PVC	Series	466.0	2.8	2.9910	1.86
15	11	36+36+36+36	1.3/1.8	PVC	Series	436.0	2.2	2.3270	1.5
17.5	13	31+31+31+31	1.4/2	PVC	Series	400.0	1.75	1.8980	1.2
20	15	27+27+27+27	1.5/2.1	PVC	Series	395.0	1.52	1.5940	0.94
25	18.5	24+24+24+24	1.5/2.1	PVC	Series	362.0	1.2	1.2630	0.79
30	22	20+20+20+20	1.7/2.3	PVC	Series	342.0	0.8	0.8638	0.59
35	26	17+17+17+17	1.9/2.5	PVC	Series	330.0	0.86	0.9140	0.57
40	30	15+15+15+15	1.9/2.5	PVC	Series	624.0	0.64	1.0247	0.46
50	37	13+13+13+13	2.1/2.7	PVC	Series	302.0	0.56	0.6096	0.37

Insulation resistance (20°C / 500 VDC)

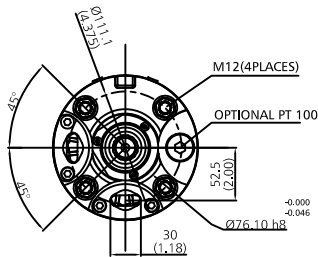
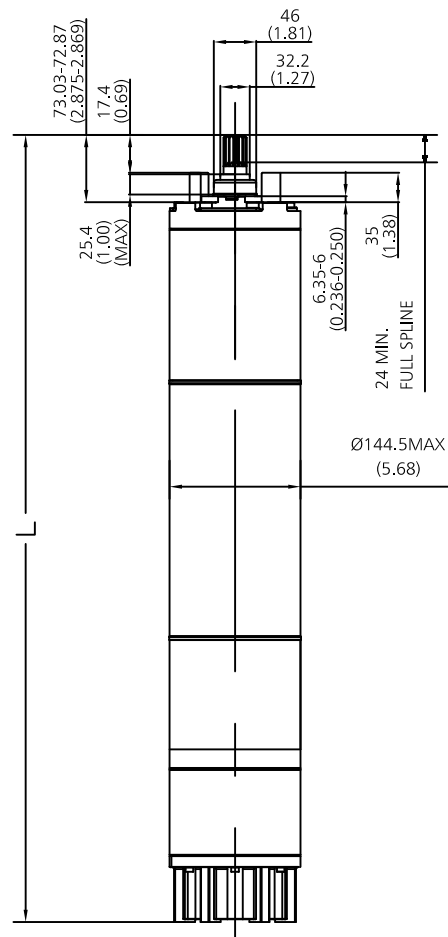
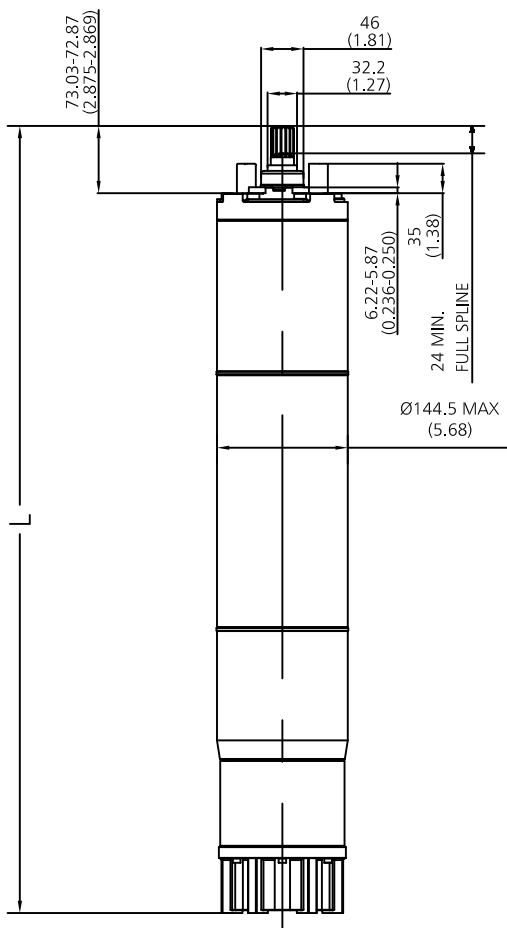
New motor without drop cable	200 > M?
Used motor without drop cable	20 > M?
New motor with drop cable	2 > M?
Used motor with drop cable	0.5 - 2 M?

SUBMERSIBLE MOTORS				
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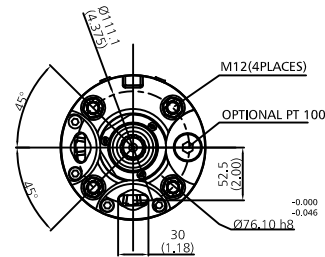
Outline drawing 304 / 316 with spare parts

304

316



TOP-VIEW



TOP-VIEW

