

SUBMERSIBLE MOTORS

6 INCH MTSF - NG

PRODUCT INFORMATION & SERVICE MANUAL



SHAKTI

THE POWER OF INNOVATION, EFFICIENCY & TECHNOLOGY.

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6" PRODUCT INFORMATION

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PRODUCT APPLICATION AND PRODUCT SPECIFICATION

GENERAL DATA

These 150 mm Rewindable motors, manufactured in ISO 9001:2015 & ISO 14001:2015 certified facilities

Applications

This motor is built for dependable operation in 150 mm diameter or larger water wells. It is fitted with water lubricated radial and thrust bearings for a maintenance – free operations. The motor is filled with a special fluid, Providing frost protection down to -15°C storage temperature . A special diaphragm ensures pressure compensation inside the motor.

Product advantages

- High efficiency electrical design (low operation cost).
- Design for retrofittable PT100 sensor.
- Motor With SiC Mechanical seal and sand slinger.
- Cable material in accordance with regulations for drinking water.
- Water lubricated radial and thrust bearing.
- All motors pre-filled and 100% tested.
- Non contaminating, water-filled design.
- Max. storage temperature -15°C to +60°C.

Technical specification

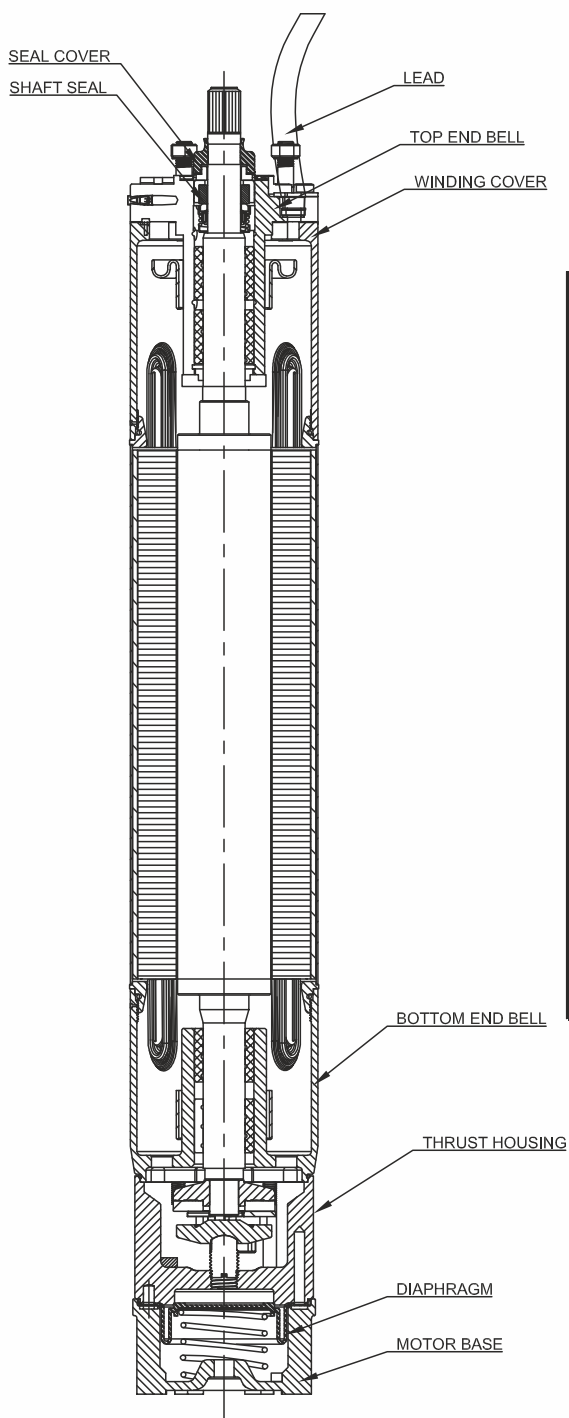
Power range	: 5.5 HP - 50 HP / 4 kW - 37 kW
Flange	: 150 mm NEMA
Degree of protection	: IP68
Ambient temperature	: 30°C
Cooling flow	: 5.5 HP - 10 HP / 4 kW - 7.5 kW = 0.2 m/s 12.5 HP - 50 HP / 9.3 kW - 37 kW = 0.5 m/s
Starts/hr	: 10
Voltage tolerance	: +6% / -10% UN

Considering continuous product development the information/performance/specifications and illustrations disseminated in this catalogue are subject to change without notice.

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable MOC



PART	MATERIAL		
	CI	AISI SS 304	AISI SS 316
TOP END BELL	CI FG 260 CED COATED	AISI SS 304	AISI SS 316
WINDING COVER	CI FG 260 CED COATED	AISI SS 304	AISI SS 316
STATOR SHELL	AISI SS 304	AISI SS 304	AISI SS 316
SEALS	NBR	NBR	NBR
SEAL COVER	AISI SS 304	AISI SS 304	AISI SS 316
SHAFT END	DUPLEX	DUPLEX	DUPLEX
SHAFT SEAL	SIC	SIC	SIC
MOTOR BASE	CI FG 260 CED COATED	AISI SS 304	AISI SS 316
THRUST HOUSING	CI FG 260 CED COATED	CI FG 260 CED COATED +AISI SS 304	AISI SS 316
BOTTOM END BELL	CI FG 260 CED COATED	AISI SS 304	AISI SS 316
DIAPHRAGM	EPDM	EPDM	EPDM
LEAD	EPR	EPR	EPR

SUBMERSIBLE MOTORS			
Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors - Model Numbers 50/60 Hz

[HP]	[KW]	[V/Hz]	DOL
			CI / SS
5.5	4	380/400/415 50 Hz	9000027951 / 9000025048
		460 60 Hz	
7.5	5.5	380/400/415 50 Hz	9000027952 / 9000025049
		460 60 Hz	
10	7.5	380/400/415 50 Hz	9000027953 / 9000025050
		460 60 Hz	
12.5	9.3	380/400/415 50 Hz	9000027954 / 9000025051
		460 60 Hz	
15	11	380/400/415 50 Hz	9000027955 / 9000025052
		460 60 Hz	
17.5	13	380/400/415 50 Hz	9000027956 / 9000025053
		460 60 Hz	
20	15	380/400/415 50 Hz	9000027957 / 9000025054
		460 60 Hz	
25	18.5	380/400/415 50 Hz	9000027959 / 9000025055
		460 60 Hz	
30	22	380/400/415 50 Hz	9000027961 / 9000025056
		460 60 Hz	
35	26	380/400/415 50 Hz	9000027962 / 9000025057
		460 60 Hz	
40	30	380/400/415 50 Hz	9000027963 / 9000025058
		461 60 Hz	
50	37	380/400/415 50 Hz	9000027964 / 9000025059
		462 60 Hz	

SUBMERSIBLE MOTORS			
Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors - Model Numbers 50/60 Hz

[HP]	[KW]	[V/Hz]	YΔ
			CI / SS
12.5	9.3	380/400/415 50 Hz	9000029432 / 9000028734
		460 60 Hz	
15	11	380/400/415 50 Hz	9000029433 / 9000028735
		460 60 Hz	
17.5	13	380/400/415 50 Hz	9000029434 / 9000028736
		460 60 Hz	
20	15	380/400/415 50 Hz	9000029435 / 9000028737
		460 60 Hz	
25	18.5	380/400/415 50 Hz	9000029436 / 9000028767
		460 60 Hz	
30	22	380/400/415 50 Hz	9000029437 / 9000029470
		460 60 Hz	
35	26	380/400/415 50 Hz	9000029438 / 9000029471
		460 60 Hz	
40	30	380/400/415 50 Hz	9000029439 / 9000029472
		460 60 Hz	
50	37	380/400/415 50 Hz	9000029620 / 9000029679
		460 60 Hz	

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors - Model Numbers 60 Hz

[HP]	[KW]	[V/Hz]	DOL CI
5.5	4	220 60Hz	9000027965
7.5	5.5	220 60Hz	9000027966
10	7.5	220 60Hz	9000027967
12.5	9.3	220 60Hz	9000027968
15	11	220 60Hz	9000027969
17.5	13	220 60Hz	9000027970
20	15	220 60Hz	9000027971
25	18.5	220 60Hz	9000027972
30	22	220 60Hz	9000027973
35	26	220 60Hz	9000027974
40	30	220 60Hz	---
50	37	220 60Hz	---

[HP]	[KW]	[V/Hz]	DOL CI
5.5	4	380 60Hz	9000027975
7.5	5.5	380 60Hz	9000027976
10	7.5	380 60Hz	9000027977
12.5	9.3	380 60Hz	9000027978
15	11	380 60Hz	9000027979
17.5	13	380 60Hz	9000027980
20	15	380 60Hz	9000027981
25	18.5	380 60Hz	9000027982
30	22	380 60Hz	9000027983
35	26	380 60Hz	9000027984
40	30	380 60Hz	9000027985
50	37	380 60Hz	9000027986

[HP]	[KW]	[V/Hz]	YΔ CI
10	7.5	220/ 380 60Hz	9000029703
12.5	9.3	220/ 380 60Hz	9000029704
15	11	220/ 380 60Hz	9000029705
17.5	13	220/ 380 60Hz	9000029706
20	15	220/ 380 60Hz	9000029707
25	18.5	220/ 380 60Hz	9000029708
30	22	220/ 380 60Hz	9000029709
35	26	220/ 380 60Hz	9000029710
40	30	220/ 380 60Hz	9000029711
50	37	220/ 380 60Hz	9000029712

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors - Model Numbers 60 Hz

[HP]	[KW]	[V/Hz]	DOL
			CI / SS
5.5	4	230 60Hz	9000027941 / 9000026663
7.5	5.5	230 60Hz	9000027942 / 9000026664
10	7.5	230 60Hz	9000027943 / 9000026665
12.5	9.3	230 60Hz	9000027944 / 9000026666
15	11	230 60Hz	9000027945 / 9000026667
17.5	13	230 60Hz	9000027946 / 9000026668
20	15	230 60Hz	9000027947 / 9000026669
25	18.5	230 60Hz	9000027948 / 9000026670
30	22	230 60Hz	9000027949 / 9000026671
35	26	230 60Hz	9000027950 / 9000026672
40	30	230 60Hz	---
50	37	230 60Hz	---

[HP]	[KW]	[V/Hz]	DOL
			CI / SS
5.5	4	460 60Hz	9000027929 / 9000026830
7.5	5.5	460 60Hz	9000027930 / 9000026831
10	7.5	460 60Hz	9000027931 / 9000026832
12.5	9.3	460 60Hz	9000027932 / 9000026833
15	11	460 60Hz	9000027933 / 9000026834
17.5	13	460 60Hz	9000027934 / 9000026835
20	15	460 60Hz	9000027935 / 9000026836
25	18.5	460 60Hz	9000027936 / 9000026837
30	22	460 60Hz	9000027937 / 9000026838
35	26	460 60Hz	9000027938 / 9000026839
40	30	460 60Hz	9000027939 / 9000026840
50	37	460 60Hz	9000027940 / 9000029680

SUBMERSIBLE MOTORS			
Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors Performance Data 50 Hz

[KW]	Thrust	U _N	n _N	I _N	I _A	Efficiency at % Load			Power Factor at % Load			T _N	T _A
	F[N]	[V]	[min ⁻¹]	[A]	[A]	50	75	100	50	75	100	[Nm]	[Nm]
4.0	15500	380	2824	10.0	45	78	76	76	0.79	0.79	0.80	13.5	16.8
		400	2834	9.9	45	77	77	76	0.74	0.77	0.78	13.5	17.7
		415	2844	9.9	45	77	77	76	0.72	0.74	0.76	13.4	18.4
5.5	15500	380	2878	12.8	58	82	82	81	0.75	0.81	0.81	18.2	22.9
		400	2891	12.6	57	81	83	81	0.70	0.8	0.79	18.2	24.1
		415	2900	12.7	57	81	82	81	0.69	0.77	0.76	18.1	25.0
7.5	15500	380	2844	16.9	76	82	83	81	0.69	0.79	0.84	25.2	31.0
		400	2866	16.6	75	81	83	82	0.64	0.76	0.82	25.0	32.6
		415	2874	16.5	74	80	82	82	0.60	0.73	0.80	24.9	33.8
9.3	15500	380	2870	20	90	83	83	84	0.72	0.77	0.85	30.9	42.0
		400	2880	20.3	92	83	83	84	0.68	0.74	0.80	30.8	44.2
		415	2890	20.8	96	83	84	84	0.66	0.74	0.77	30.7	45.9
11.0	15500	380	2850	23.9	108	83	84	83	0.77	0.85	0.85	36.8	53.0
		400	2865	23.3	107	83	84	83	0.74	0.80	0.84	36.6	55.8
		415	2875	23.1	105	84	84	84	0.74	0.77	0.82	36.5	57.8
13.0	15500	380	2896	29.1	131	84	84	84	0.81	0.81	0.82	42.8	61.0
		400	2904	28.9	130	84	84	84	0.76	0.76	0.79	42.7	64.2
		415	2912	29.5	133	84	84	84	0.72	0.75	0.75	42.6	66.6
15.0	15500	380	2880	33.2	149	84	84	83	0.81	0.82	0.82	49.7	72.0
		400	2892	32.7	150	84	84	84	0.76	0.79	0.79	49.5	75.8
		415	2900	32.8	153	84	84	83	0.72	0.75	0.76	49.4	78.6
18.5	27500	380	2870	41.8	213	83	83	83	0.76	0.78	0.81	61.5	91.0
		400	2885	41.1	210	83	83	83	0.75	0.74	0.79	61.2	95.8
		415	2892	41.7	213	83	83	83	0.70	0.70	0.75	61.1	104.6
22.0	27500	380	2872	47.8	253	80	83	83	0.66	0.77	0.84	73.1	111.0
		400	2880	47.5	252	79	83	83	0.62	0.73	0.81	72.9	116.8
		415	2884	48.0	254	78	84	84	0.59	0.70	0.78	72.8	121.2
26.0	27500	380	2876	56.4	299	81	84	84	0.65	0.85	0.83	86.3	121.0
		400	2888	56.3	289	80	84	84	0.62	0.80	0.80	85.9	127.4
		415	2896	57.3	304	79	85	85	0.59	0.76	0.76	85.7	132.1
30.0	27500	380	2880	64.6	349	84	85	85	0.72	0.77	0.83	99.7	145.0
		400	2892	64.7	349	84	85	85	0.66	0.72	0.80	99.3	152.6
		415	2900	66.3	358	84	85	85	0.61	0.67	0.75	98.9	158.3
37.0	27500	380	2880	79.6	438	84	85	84	0.68	0.77	0.83	122.6	172.2
		400	2884	80.2	441	82	85	84	0.61	0.72	0.80	122.0	181.3
		415	2892	81.3	447	81	85	86	0.56	0.67	0.76	123.0	188.0

SUBMERSIBLE MOTORS

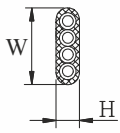
Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

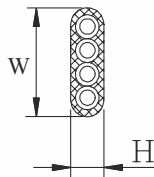
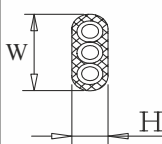
6" Rewindable Motors Performance Data 60 Hz

PN [KW]	P (max) [KW]	Thrust	U _N	n _N	I _{max}	I _A	Max. Efficiency at % Load			Max. Power Factor at % Load			T _{max}	T _A
		F[N]	[V]	[min ⁻¹]	[A]	[A]	50	75	100	50	75	100	[Nm]	[Nm]
4.0	4.6	15500	220	3455	19.7	89	75	77	78	0.74	0.74	0.78	12.7	13.5
			230	3484	19.9	90	73	77	78	0.62	0.71	0.75	12.6	13.4
			380	3450	12	54	73	76	77	0.63	0.71	0.76	12.7	13.5
			460	3428	10.1	45	72	76	76	0.61	0.71	0.75	12.8	13.6
5.5	6.3	15500	220	3476	25.8	116	79	81	81	0.72	0.76	0.79	17.3	21.6
			230	3480	25.8	116	79	81	81	0.74	0.77	0.77	17.2	21.5
			380	3480	15.0	68	78	80	80	0.68	0.76	0.8	17.3	21.6
			460	3480	12.9	58	78	80	80	0.62	0.69	0.76	17.3	21.6
7.5	8.6	15500	220	3444	33.2	149	79	80	80	0.82	0.83	0.85	23.8	30.3
			230	3455	32.5	146	78	79	80	0.80	0.80	0.83	23.8	30.2
			380	3480	19.5	88	80	82	81	0.75	0.81	0.83	23.6	30.0
			460	3470	16.5	74	79	82	82	0.63	0.75	0.8	23.7	30.0
9.3	10.7	15500	220	3468	40	168	83	84	84	0.79	0.81	0.83	29.5	47.7
			230	3476	39.3	167	83	85	85	0.78	0.8	0.83	29.3	47.4
			380	3470	23.2	97	82	84	84	0.67	0.79	0.84	29.4	45.6
			460	3468	20.5	100	80	83	83	0.61	0.74	0.79	29.5	45.6
11.0	12.7	15500	220	3448	47.2	195	82	83	84	0.67	0.79	0.85	35.2	46.0
			230	3458	45	192	82	84	84	0.66	0.79	0.85	35.1	46.3
			380	3444	27.8	114	82	84	83	0.67	0.78	0.84	35.2	46.5
			460	3448	24.6	118	81	83	82	0.62	0.74	0.79	35.2	46.4
13.0	15.0	15500	220	3480	58.0	237	81	83	83	0.77	0.79	0.81	41.1	63.7
			230	3488	55.3	245	81	83	84	0.82	0.80	0.81	40.2	65.2
			380	3481	33.2	148	80	83	83	0.72	0.78	0.83	41.1	65.4
			460	3498	29	119	79	83	84	0.61	0.72	0.77	40.9	65.0
15.0	17.3	15500	220	3456	66	297	80	83	83	0.66	0.78	0.83	47.8	66.8
			230	3464	65	298	80	83	83	0.65	0.76	0.81	47.7	66.7
			380	3462	38.5	173	81	83	83	0.78	0.83	0.83	47.7	66.7
			460	3480	32.0	146	83	84	84	0.77	0.77	0.81	47.7	66.4
18.5	21.3	27500	220	3448	81.9	344	83	83	83	0.77	0.79	0.82	59.0	85.5
			230	3460	80.0	338	83	84	83	0.77	0.79	0.8	58.8	82.5
			380	3452	46.7	197	84	84	84	0.8	0.79	0.83	58.9	82.5
			460	3474	40.6	186	81	83	83	0.77	0.77	0.79	58.5	81.8
22.0	25.3	27500	220	3452	93.5	449	85	85	84	0.78	0.83	0.85	70.0	101.4
			230	3460	90.0	432	83	85	84	0.67	0.79	0.84	69.8	101.2
			380	3448	53.5	257	84	85	84	0.77	0.82	0.86	70.0	101.5
			460	3476	47.1	226	78	82	83	0.65	0.77	0.82	69.5	100.7
26.0	29.9	27500	220	3468	115	598	82	83	83	0.77	0.79	0.82	82.3	115.2
			230	3480	116.5	606	81	83	83	0.75	0.76	0.78	82.0	114.8
			380	3448	66.0	343	83	84	84	0.81	0.82	0.82	82.8	115.8
			460	3480	55.5	289	79	83	84	0.65	0.77	0.81	82.0	114.8
30.0	34.5	27500	220	3460	128.5	643	86	86	85	0.83	0.84	0.83	95.2	136.1
			230	3476	128.5	643	81	84	83	0.81	0.82	0.81	94.7	135.4
			380	3468	71	355	86	86	86	0.83	0.84	0.86	95.0	135.7
			460	3476	64.2	321	81	84	84	0.65	0.76	0.8	74.7	135.4
37.0	42.6	27500	220	3460	155.8	763	86	86	85	0.81	0.83	0.85	117.5	168.0
			230	3460	156	764	84	83	84	0.78	0.79	0.82	117.5	168.0
			380	3460	89.5	439	86	86	85	0.74	0.77	0.85	117.5	168.0
			460	3472	79	387	83	83	84	0.68	0.69	0.8	117.1	167.5

SUBMERSIBLE MOTORS			
Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors Leads

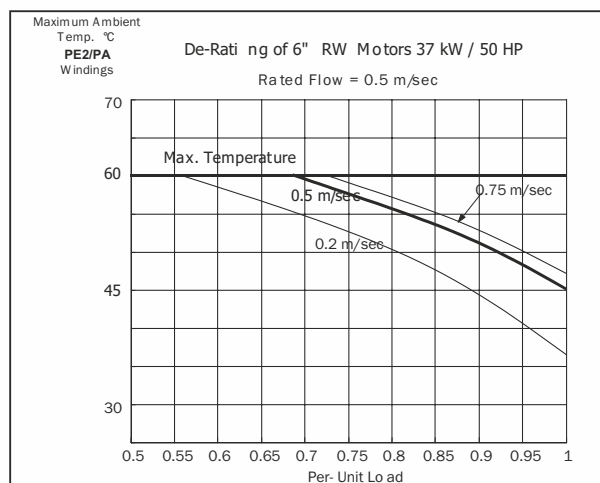
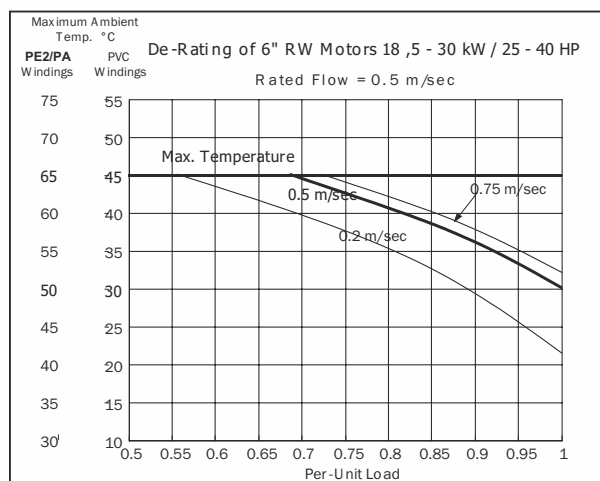
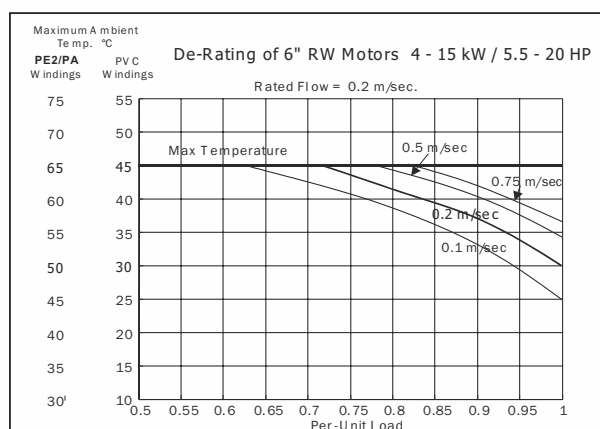
DOL	[kW]	[HP]	St.	Ø	W/H	LENGTH
			#	[MM ²]	[MM]	[M]
	4-9.3	5.5-12.5	1	4X4	23X8.2	4
	11-30	15-40		4X6	25X9	
	37	50		3X10+G	24.5X11.5	

YΔ	[kW]	[HP]	St.	Ø	W/H	LENGTH
			#	[MM ²]	[MM]	[M]
 	9.3	12.5	1	4X4	23X8.2	4
				3X4	17.8X8.5	
	11-30	15-40		4X6	25X9	
				3X6	19.5X9.5	
	37	50		4X10	30X10.5	
				3X10+G	24.5X11.5	

SUBMERSIBLE MOTORS

Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

6" Rewindable Motors De-Rating

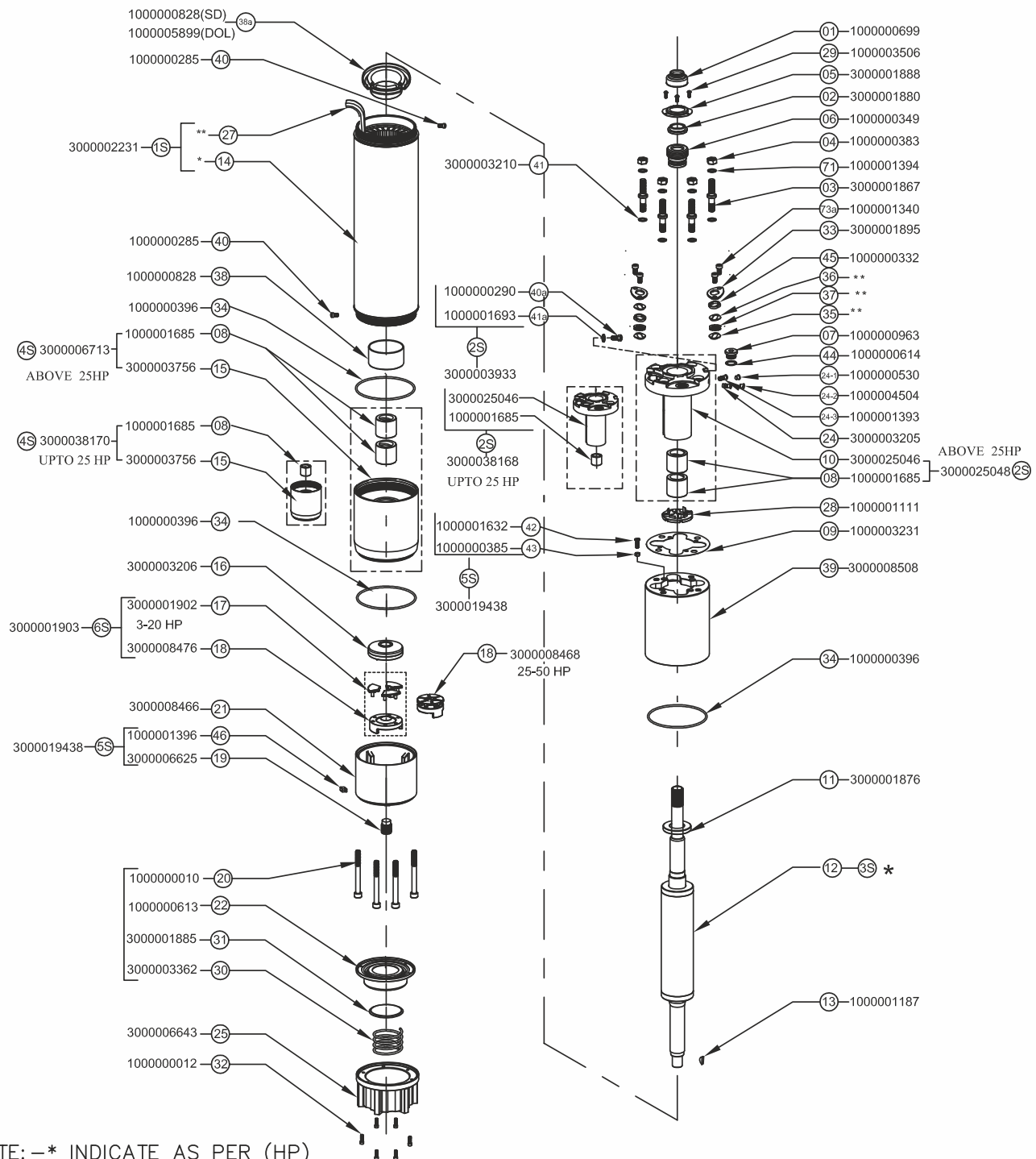


If above conditions are not met please contact Shakti Pumps

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

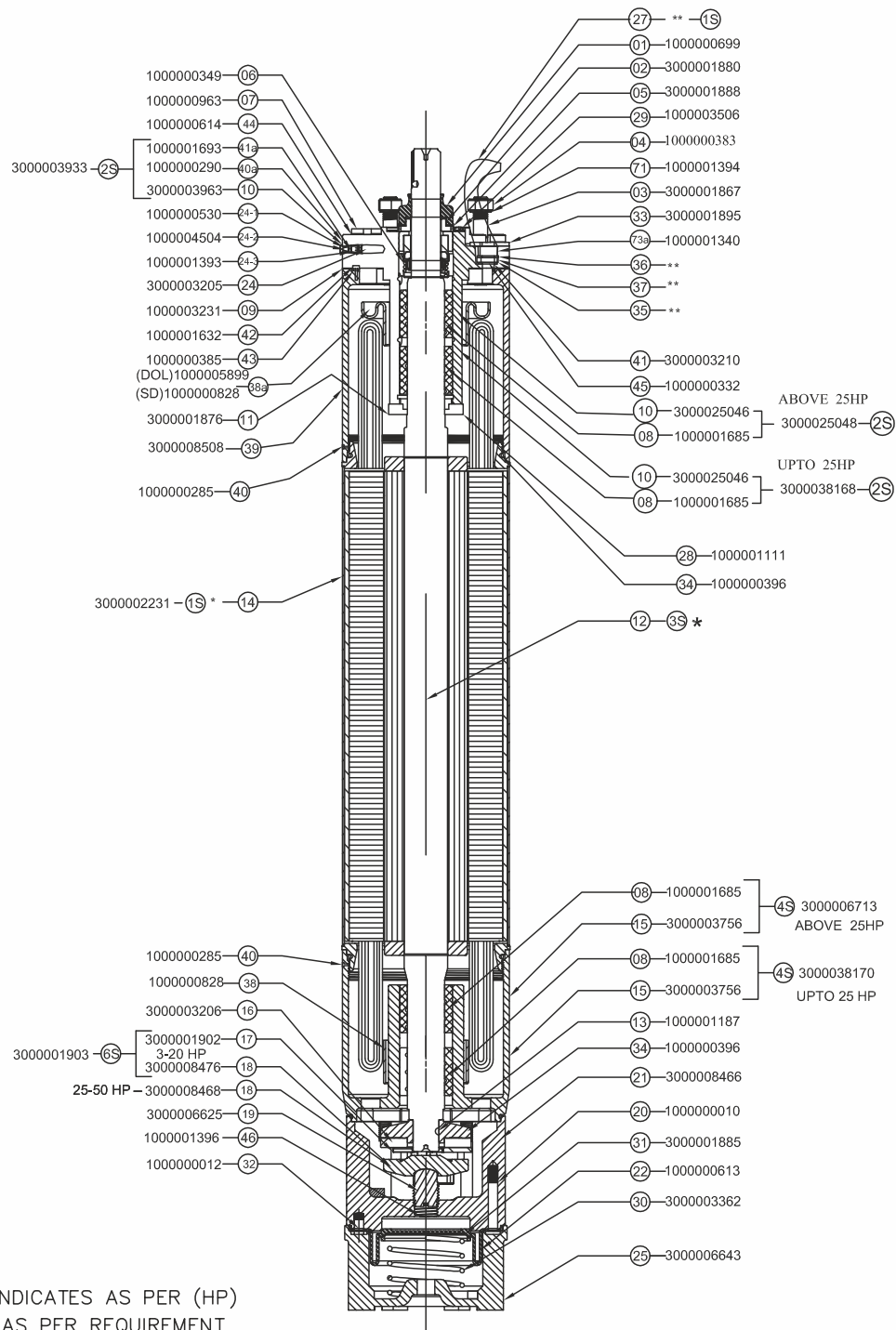
Exploded View



NOTE: -* INDICATE AS PER (HP)
** AS PER REQUIREMENT

SUBMERSIBLE MOTORS			
Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Sectional View



SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Part list

GROUP	POS	MATERIAL CODE	PART DESCRIPTION	QTY	MATERIAL
	01	1000000699	SAND SLINGER	1	NBR RUBBER
	29	1000003506	SLOTTED THRD CUT SCREW(M4)	3	SS AISI-304
	05	3000001888	DUST COVER	1	SS AISI-304
	02	3000001880	BUSH FOR DUST COVER	1	BRASS
	06	1000000349	MECH SEAL ASSLY	1	N/A
	04	1000000383	NUT M12(HH)	4	SS AISI-304
	71	1000001394	SPRING WASHER	4	SS AISI-304
	3	3000001867	STUD(M12)	4	SS AISI-304
	41	3000003210	GASKET WASHER	4	CAF GASKET
	73-a	1000001340	ALLEN BOLT M8X12	4	SS AISI-304
	33	3000001895	LEAD CLAMP	2	SS AISI-304
	36	*	LEAD SEAL UPPER	2	SS AISI-304
	45	1000000332	LEAD SPACER	2	HDPE
	37	*	GROMATE	2	NITRILE RUBBER
	35	*	LEAD SEAL LOWER	2	SS AISI-304
	7	1000000963	DRAIN PLUG	1	BRASS
	44	1000000614	RUBBER GASKET WASHER	1	NBR
	24-1	1000000530	PVC CAP(WHITE)	1	PP
	24-2	1000004504	PVC CAP(GREEN)	1	PP
	24-3	1000001393	FILTER	2	N/A
	24	3000003205	PRESSUR RELIEF VALVE ASSLY.	2	N/A
2S* (ABOVE 25 HP) OR (UPTO 25 HP)	10	3000025046	END BELL UPPER	1	SS AISI-304
	40a	1000000290	H.H. BOLT M6X12 mm	1	SS AISI-304
	41a	1000001693	S.S WASHER M6XTH.1.0mm	1	SS AISI-304
	08	1000001685	BUSH CARBON (ABOVE 25 HP)	2	REGIN IMPREGATED CARBON
	08	1000001685	BUSH CARBON (UPTO 25 HP)	1	REGIN IMPREGATED CARBON
	28	1000001111	UP THRUST BEARING	1	NORYL(GLASS FILLED)
	9	1000003231	GASKET	1	OILPAPER
	39	3000017185	WINDING COVER	1	N/A
	34	1000000396	O-RING(123.5X3.5)	1	EPDM
	42	1000001632	CHEESE HEAD SCREW	1	SS AISI-304
	43	1000000385	NUT(H.H M6)	1	SS AISI-304
	11	3000001876	THRUST PLATE	1	CI FG-260
3S	12	*	ROTOR SUB ASSLY	1	N/A
	13	1000001187	WOODRUF KEY(5X7.5)	1	En8
	38a	1000005899	UPPER SUPPORT RING(DOL)	1	PPS
		1000000828	UPPER SUPPORT RING(SD)	1	PPS
	40	1000000285	GRUB SCREW(M5X6)	1	BRASS

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Part list

GROUP	POS	MATERIAL CODE	PART DESCRIPTION	QTY	MATERIAL
1S 3000002231	27	**	CABLE	1	EXTRUDED RUBBER COMPOUND
	14	*	STATOR SUB ASSLY	1	N/A
	40	1000000285	GRUB SCR(W5X6)	1	BRASS
	38	1000000828	SUPPORT RING	1	PPS
4S* (ABOVE 25 HP) OR (UPTO 25 HP)	08	1000001685	BUSH CARBON (ABOVE 25 HP)	2	REGIN IMPREGATED CARBON
	08	1000001685	BUSH CARBON (UPTO 25 HP)	1	REGIN IMPREGATED CARBON
	15	3000003199	PIPE COVER	1	SS-304
	34	1000000396	O-RING(123.5X3.5)	1	EPDM
	34	1000000396	O-RING(123.5X3.5)	1	EPDM
	16	3000003206	REVOLVING PLATE ASSLY	1	N/A
6S 3000001903	17	3000001902	THUST BRG.SEG(3-20 HP)	3	AISI SS-420
	18	3000008476	THRUST BER PLATE	1	CI FG-260
	18	3000008468	THRUST BER PLATE(25-50 HP)	1	AISI SS -420
	21	3000008466	THRUST BEARING HOUSING	1	N/A
	46	1000001396	MAGNET	1	MAGNET
	19	3000006625	ADJUSTING STUD	1	DUPLEX
	20	1000000010	ALLEN BOLT M10X100	4	SS AISI-304
	22	1000000613	DIAPHRAM	1	EPDM
	31	3000001885	DIAPHRGAM PLATE	1	SS AISI-304
	30	3000003362	SPRING ID 59.5X3.81X72	1	SS AISI-304
	25	3000006643	MOTOR BASE	1	SS AISI-304
	32	1000000012	ALLEN BOLT M5X16	6	SS AISI-304

SUBMERSIBLE MOTORS			
Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Replacment Rotor & Sleeve Assembly

POS	P _N	P _N	UPPER SLEEVE	LOWER SLEEVE	ROTOR MODEL NO.
	[HP]	[kW]			
12.01	5.5	4	3000001866 LENGTH – 115.0 mm	3000022409 LENGTH – 131.5 mm	3000002166
12.02	7.5	5.5			3000002166
12.03	10.0	7.5			3000002167
12.04	12.5	9.3			3000002168
12.05	15.0	11			3000002169
12.06	17.5	13			3000002170
12.07	20.0	15	3000001866 LENGTH – 115.0 mm	3000022410 LENGTH – 119.0 mm	3000002171
12.08	25.0	18.5			3000002172
12.09	30.0	22			3000002173
12.1	35.0	26			3000002174
12.11	40.0	30			3000002175
12.12	50.0	37			3000002176

Replacment Stator Assembly

POS	P _N	P _N	STATOR ASSEMBLY	STATOR MODEL NO.
	[HP]	[kW]		
14.01	5.5	4.0	STATOR ASSEMBLY	3000002223
14.02	7.5	5.5		3000002223
14.03	10.0	7.5		3000003158
14.04	12.5	9.3		3000002224
14.05	15.0	11.0		3000002225
14.06	17.5	13.0		3000002226
14.07	20.0	15.0		3000002227
14.08	25.0	18.5		3000002228
14.09	30.0	22.0		3000002229
14.10	35.0	26.0		3000002230
14.11	40.0	30.0		3000002231
14.12	50.0	37.0		3000002232

SUBMERSIBLE MOTORS			
Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Replacement Stators Assly

POS	P _N [HP]	P _N [kW]	STATORS	ROTOR MODEL NO. (CI)/(304)
14.01	5.5	4	STATOR ASSLY	3000002223
14.02	7.5	5.5	STATOR ASSLY	3000002223
14.03	10	7.5	STATOR ASSLY	3000003158
14.04	12.5	9.3	STATOR ASSLY	3000002224
14.05	15	11	STATOR ASSLY	3000002225
14.06	17.5	13	STATOR ASSLY	3000002226
14.07	20	15	STATOR ASSLY	3000002227
14.08	25	18.5	STATOR ASSLY	3000002228
14.09	30	22	STATOR ASSLY	3000002229
14.1	35	26	STATOR ASSLY	3000002230
14.11	40	30	STATOR ASSLY	3000002231
14.12	50	37	STATOR ASSLY	3000002232

SUBMERSIBLE MOTORS

Material	Cl, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Standard Stator and Rotor Model Number

[HP]	[kW]	[V/Hz]	STATOR INCL. WINDING		ROTOR
			DOL	YΔ	
5.5	4	380, 400, 415/50, 460/60	3000008396	3000002263	3000002166
7.5	5.5	380, 400, 415/50, 460/60	3000008430	3000002271	3000002166
10	7.5	380, 400, 415/50, 460/60	3000002279	3000002280	3000002167
12.5	9.3	380, 400, 415/50, 460/60	3000002287	3000002288	3000002168
15	11	380, 400, 415/50, 460/60	3000008286	3000002296	3000002169
17.5	13	380, 400, 415/50, 460/60	3000002303	3000008312	3000002170
20	15	380, 400, 415/50, 460/60	3000002311	3000002314	3000002171
25	18.5	380, 400, 415/50, 460/60	3000002319	3000002321	3000002172
30	22	380, 400, 415/50, 460/60	3000002327	3000002329	3000002173
35	26	380, 400, 415/50, 460/60	3000002335	3000008372	3000002174
40	30	380, 400, 415/50, 460/60	3000002343	3000008390	3000002175
50	37	380, 400, 415/50, 460/60	3000023468	3000008412	3000002176

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

HP	KW	Turns per Coil	Wire diameter /Insulation thickness(mm)	Coil Group Connection	Total Wire Length (m)	Resistance YΔ (U1-U2) [Ω]	Resistance DOL (U1-V1) [Ω]
5.5	4	52+52+52	1.1/0.5	star	357	2.26	4.52
7.5	5.5	43+43+43	1.2/0.5	star	326	1.68	3.37
10	7.5	36+36+36	1.4/0.6	star	289	1.12	2.24
12.5	9.3	48+48+48	1.2/0.5	delta	438	2.28	1.52
15	11	48+48+48	1.2/0.5	delta	438	2.28	1.52
17.5	13	33+33+33	1.4/0.6	delta	357	1.37	0.91
20	15	33+33+33	1.4/0.6	delta	357	1.37	0.91
25	18.5	29+29+29	1.5/0.6	delta	337	1.16	0.77
30	22	24+24+24	1.7/0.6	delta	318	0.86	0.57
35	26	21+21+21	1.8/0.6	delta	318	0.75	0.50
40	30	17+17+17	2.0/0.6	delta	288	0.59	0.39
50	37	15+15+15	2.1/0.6	delta	276	0.47	0.31

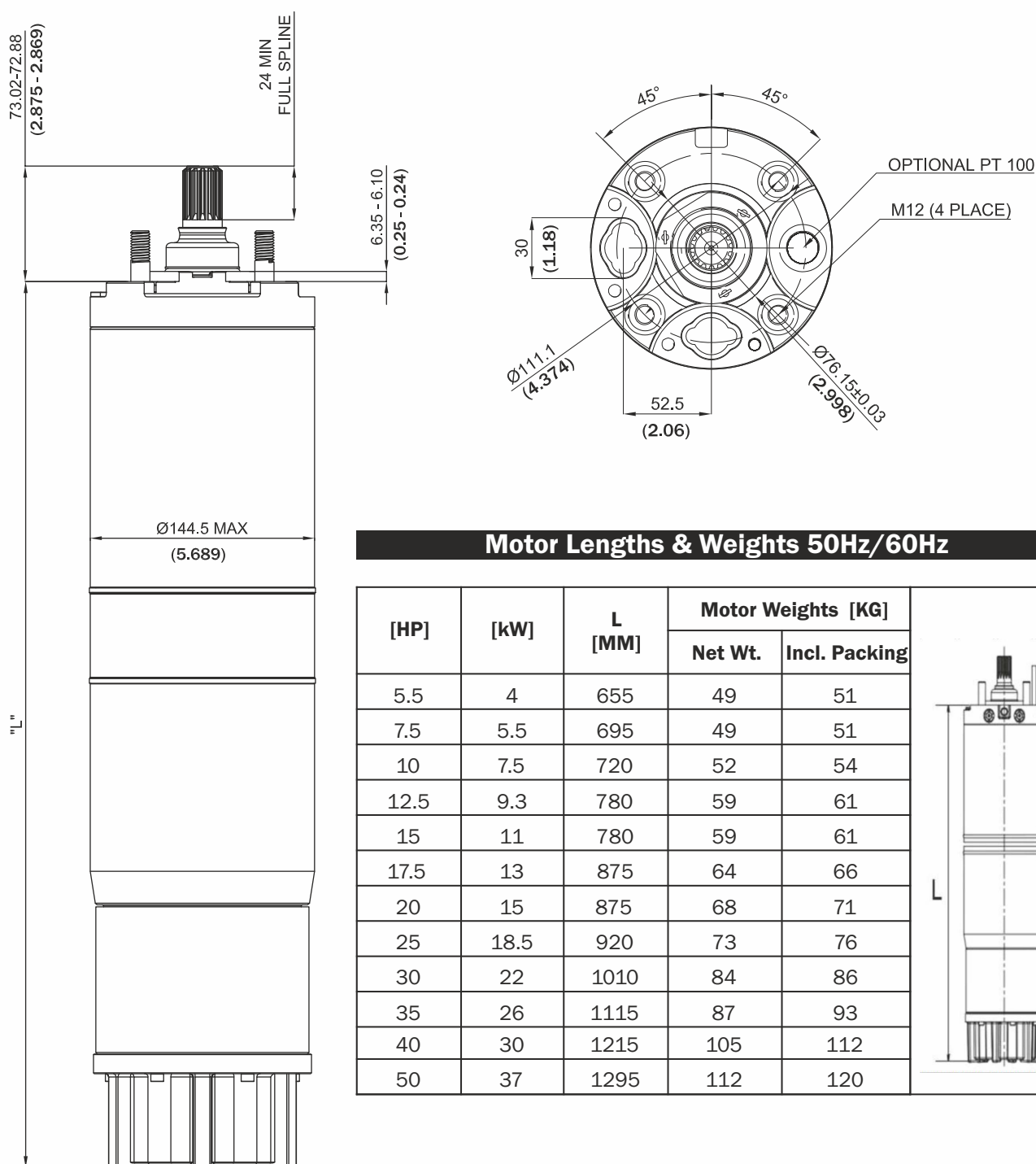
Insulation Resistance (20⁰c / 500 VDC)

NEW MOTOR WITHOUT DROP CABLE	200>MΩ
USED MOTOR WITHOUT DROP CABLE	20>MΩ
NEW MOTOR WITH DROP CABLE	2>MΩ
USED MOTOR WITH DROP CABLE	0.5>MΩ

SUBMERSIBLE MOTORS

Material	CI, Stainless Steel 304/316	Rating	4kW-37kW/5.5HP-50HP
Type	Rewindable	Thrust Rating	15500-27500 N

Outline Diagram



Motor Lengths & Weights 50Hz/60Hz

[HP]	[kW]	L [MM]	Motor Weights [KG]	
			Net Wt.	Incl. Packing
5.5	4	655	49	51
7.5	5.5	695	49	51
10	7.5	720	52	54
12.5	9.3	780	59	61
15	11	780	59	61
17.5	13	875	64	66
20	15	875	68	71
25	18.5	920	73	76
30	22	1010	84	86
35	26	1115	87	93
40	30	1215	105	112
50	37	1295	112	120

