



Rewindable Water Filled Submersible Motors

Made in India



Technical Specifications		50 Hz	60 Hz
Nominal Dia		4" Motor (100mm)	4" Motor (100mm)
Max. Outer Dia		95mm	3.74 Inches
Power Range	1Ph	0.37 to 2.2 kW	0.5 to 3 HP
	3Ph	0.37 to 7.5 kW	0.5 to 10 HP
Version	1Ph	220 / 230 V - 50Hz	220/230V, 60Hz, A.C Supply
	3Ph	380 - 415 V - 50Hz	220/230/380/460V, 60Hz, A.C Supply
Nominal Speed		2900 rpm	3450 rpm
Class of Insulation		Y / F	Y / F
Degree of protection		IP 58	IP 58
Direction of rotation		Counter-clock wise	Counter-clock wise
Type of duty		S1 (Continues)	S1 (Continues)
Minimum cooling flow		0.15 m/sec	0.5 ft/sec
Max. Liquid temp.		33° C	33° C (91.4°F)
starts per hour		20 Times	20 Times
Method of starting	1Ph	Capacitor Start Capacitor Run (CSCR)	Capacitor Start Capacitor Run
	3Ph	Direct On Line (DOL)	(CSCR) Direct On Line (DOL)
Cable lead-out		Permanently Connected 3 / 4 Core PVC Flat Cable	Permanently Connected 3 / 4 Core PVC Flat Cable

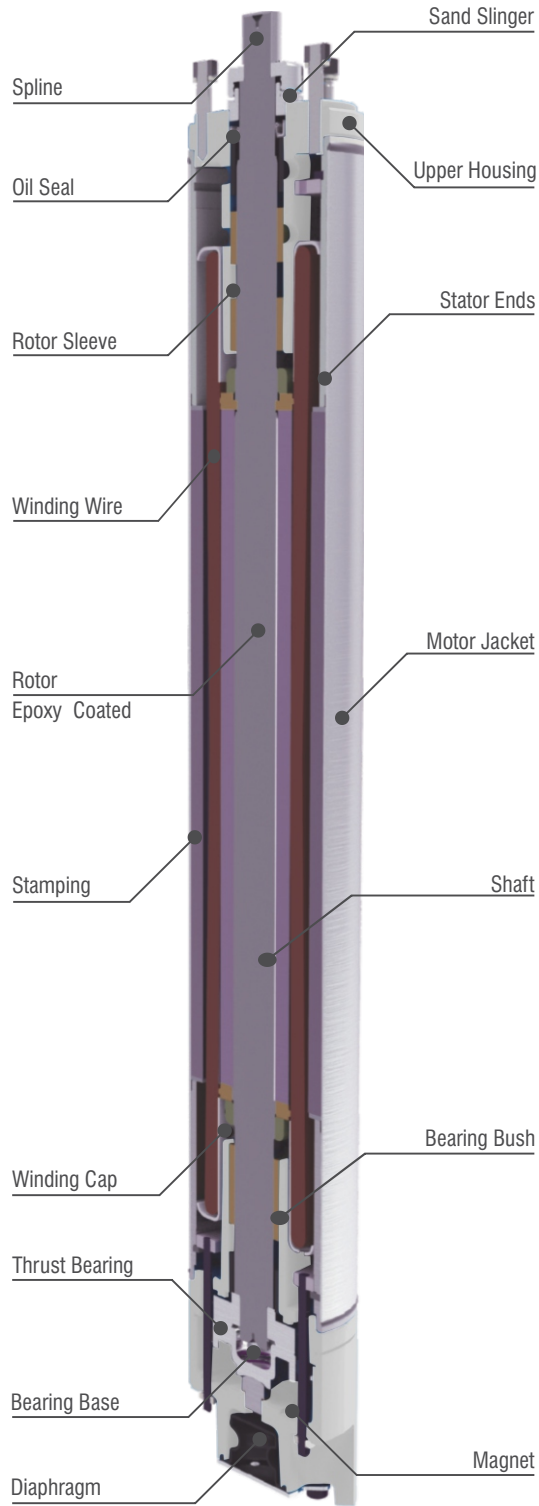
Materials of Construction	C	L	S
Upper & Lower Housing	Cl, FG 200	Casted SS 410	Casted SS 304
Stator Shell	SS 202	SS 410	SS 304
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	Cl, FG 200/ SS 420	SS 410 / SS 420	SS 304 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	Cl, FG 200	SS 410	SS 304
Upper housing shell	Cl, FG 200	SS 410	SS 304
Shaft	SS 420 / 431	SS 420 / 431	SS 420 / 431
Sleeve	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- Low Voltage motors can be supplied, on request



Cross Sectional View



Technical Details

50Hz, Single Phase, 230V Water Filled Motor (CSCR)

kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
0.37	0.5	5.3	10.13	40	0.64	3000	2	1.2
0.55	0.75	6.2	11.5	42	0.65	3000	2.9	1.8
0.75	1	7.5	14.17	46	0.65	3000	4.1	2.5
1.1	1.5	10.5	20.15	49	0.65	3000	6.1	3.7
1.5	2	13.8	24.2	52	0.66	3000	8.3	4.9
2.2	3	19.8	34.6	56	0.66	6500	13.3	7.4

50Hz, Three Phase, 380 - 415V Water Filled Motor (D.O.L.)

kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
0.37	0.5	2.4	5.2	50	0.6	3000	2.2	1.2
0.55	0.75	2.75	9.64	56	0.6	3000	3.4	1.9
0.75	1	3	10.27	56	0.6	3000	4.5	2.5
1.1	1.5	4	13.83	56	0.61	3000	6.7	3.7
1.5	2	4.8	16.44	60	0.61	3000	9	5
2.2	3	6.9	25.06	63	0.61	6500	14.1	7.5
3	4	9	31.3	63	0.62	6500	19	10
3.7	5	10.6	36.97	64	0.62	6500	22	12.4
4	5.5	12.6	42.61	67	0.63	6500	23	13.1
5.5	7.5	14.5	49.8	68	0.65	6500	33.7	18.7
7.5	10	19.8	119	72	0.82	6500	45.5	25

Dimensional Details

kW	HP	Cable Size (sq.mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
0.37	0.5	1.5	1.5	474.5	17
0.55	0.75	1.5	1.5	494.5	17.5
0.75	1	1.5	1.5	514.5	19
1.1	1.5	2.5	1.5	549.5	20
1.5	2	2.5	1.5	594.5	22
2.2	3	2.5	2.0	664.5	25.5
0.37	0.5	1.5	1.5	472.5	15.5
0.55	0.75	1.5	1.5	493	18
0.75	1	1.5	1.5	514.5	19.5
1.1	1.5	1.5	1.5	549.5	20.5
1.5	2	1.5	1.5	594.5	22.5
2.2	3	1.5	2.0	664.5	26
3	4	1.5	2.0	724.5	28
3.7	5	2.5	2.0	764.5	31
4	5.5	2.5	2.0	852.5	36
5.5	7.5	4.0	3.0	855	36
7.5	10	4.0	3.0	1120.0	43



Technical Specifications	50 Hz	60 Hz
Nominal Dia	6" Motor (150mm)	6" Motor
Max. Outer Dia	144mm	5.67 Inches
Power Range	4 to 45 kW	5.5 to 50 HP
Version	3Ph	
	380-415V, 50Hz, A.C. Supply	220/230/380/440/460V, 60 Hz, A.C. Supply
Nominal Speed	2900 rpm	3450 rpm
Class of Insulation	Y / F	Y / F
Degree of protection	IP58 / IP68	IP 58 / IP 68
Direction of rotation	Counter-clock Wise	Counter-clock Wise
Type of duty	S1 (Continues)	S1 (Continues)
Minimum cooling flow	0.15 m/sec	0.5 ft/sec
Max. Liquid temp.	33° C / 70° C (PE2-PA Winding)	33° C (91.4°F) / 70° C (PE2-PA Winding)
starts per hour	20 Times	20 Times
Method of starting	4.0kW to 45kW Direct On Line (D.O.L.)	4.0 kW to 5.5 kW Direct On Line (D.O.L.)
	5.5kW to 45kW Star Delta (S.D.)	5.5 kW to 30.0 kW Star Delta (DOL / S.D.)
Cable leadout type	Permanently Connected	Permanently Connected
	3 / 4 Core PVC Flat Cable	3 / 4 Core PVC Flat Cable

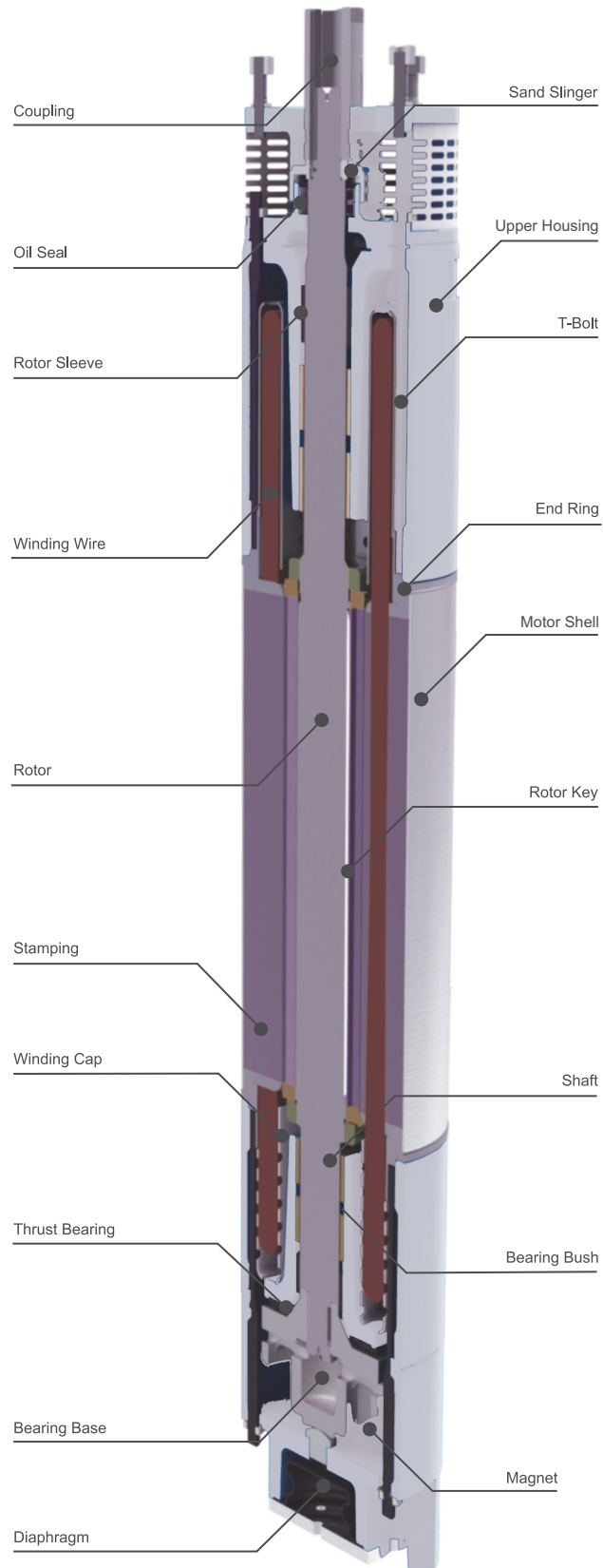
Materials of Construction	C	L	S	T
Upper & Lower Housing	CI, FG 200 / 260	Casted SS 410	Casted SS 304	Casted SS 316
Stator Shell	SS 202	SS 410	SS 304	SS 316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 410 / SS 420	SS 304 / SS 420	SS 316 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS 410	SS 304	SS 316
Upper Housing Shell	CI, FG 200/260	CI, FG 200/260	CI, FG 200/260	CI, FG 200/260
Shaft	SS 420/431	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
- Motors with Mechanical Seal & PT sensors available, on request



Cross Sectional View



Technical Details

50Hz, Three Phase 380-415V, Water Filled Motor (D.O.L.& S.D.)

kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
4	5.5	10	44.69	68	0.7	15500	20	14
4.5	6	12	50.97	70	0.71	15500	21	15
5.5	7.5	14.5	57.16	73	0.71	15500	24	18
7.5	10	19.5	79.51	74	0.71	15500	27	25
9.3	12.5	25	94.59	75	0.72	15500	35	31
11	15	29	113.12	76	0.72	15500	43	37
13	17.5	34	122.4	77	0.72	15500	51	43
15	20	39	133.1	78	0.73	15500	62	49
18.5	25	45	162.8	80	0.73	15500	98	61
22	30	53	189.71	80	0.75	15500	118	74
26	35	66	215.2	81	0.76	15500	146	84
30	40	68	241.5	83	0.76	27500	196	98
37	50	85	420	83	0.82	27500	242	122
45	60	96	464	83	0.82	27500	393	150

Dimensional Details

kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
4	5.5	4	-	3.0	704	51
4.5	6	4	-	3.0	719	53
5.5	7.5	4	2.5	3.0	774	59
7.5	10	4	2.5	3.0	819	65
9.3	12.5	6	2.5	3.0	849	69
11	15	6	4	3.0	909	76
13	17.5	10	4	3.0	939	79
15	20	10	4	3.0	989	85
18.5	25	10	4	4.0	1039	92
22	30	10	4	4.0	1129	100
26	35	10	6	4.0	1164	118
30	40	16	6	4.0	1339	128
37	50	16	6	5.0	1312	128
45	60	16	10	5.0	1387	128



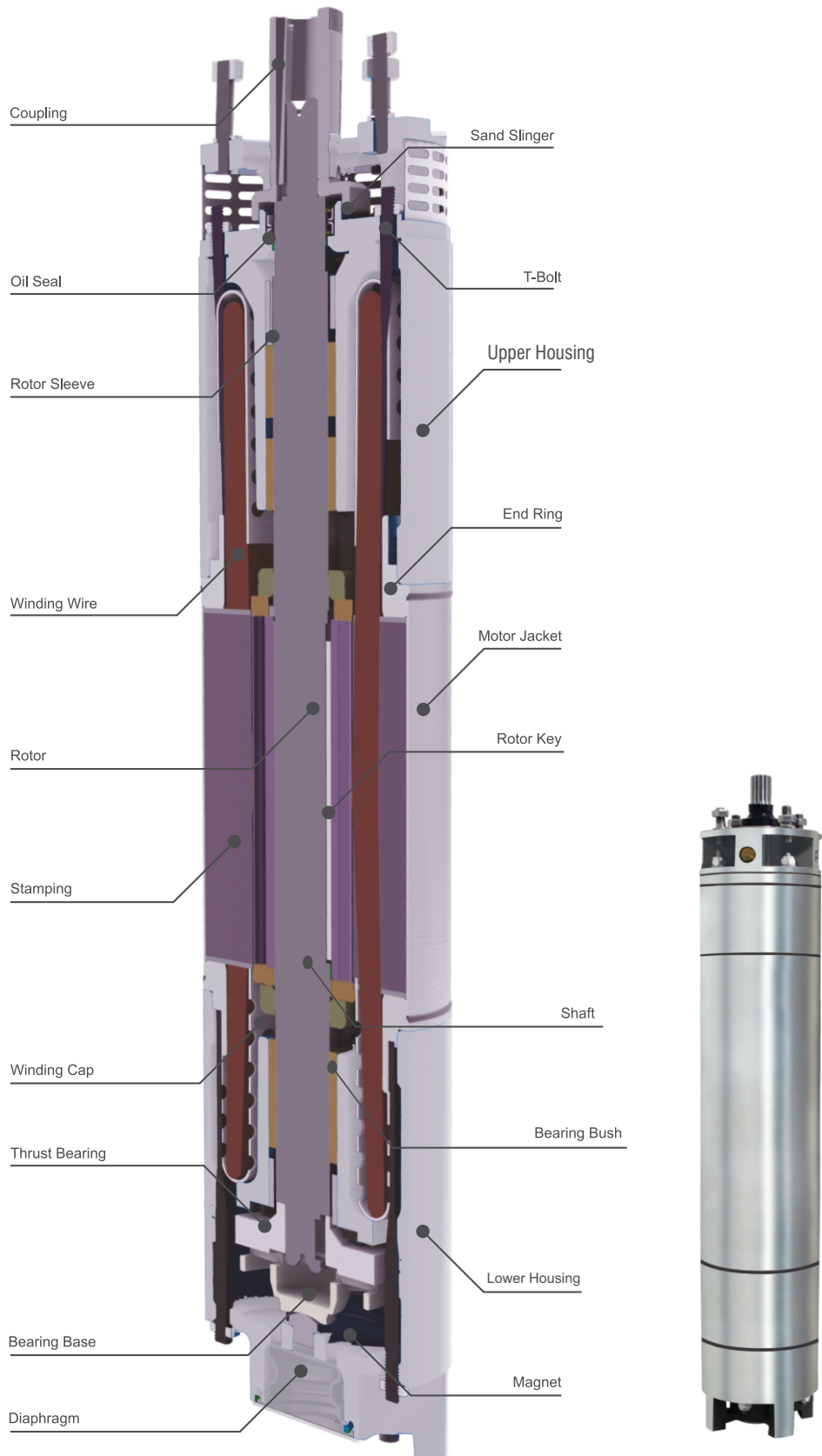
Technical Specifications	50 Hz	60 Hz
Nominal Dia	8" Motor (200mm)	8" Motor
Max. Outer Dia	190mm	7.5 Inches
Power Range	37 to 63 kW	50 to 85 HP
Version	3Ph	380V / 440V / 460V 60 Hz, A.C. Supply
Nominal Speed	2900 rpm	3450 rpm
Class of Insulation	Y / F	Y / F
Degree of protection	IP 68	IP 68
Direction of rotation	Counter-Clock Wise	Counter-Clock Wise
Type of duty	S1 (Continues)	S1 (Continues)
Minimum cooling flow	0.5 m/sec	0.5 m/sec
Max. Liquid temp.	33° C	33° C
starts per hour	10 Times	10 Times
Method of starting	37 kW - 63 kW (DOL & S.D.)	37.0 kW - 63.0 kW (DOL & S.D.)
Cable leadout type	3 / 4 Core PVC Flat Cable	3 / 4 Core PVC Flat Cable

Materials of Construction	C	S	T
Upper & Lower Housing	CI,FG 200/260	Casted SS304	Casted SS316
Stator Shell	SS 202	SS304	SS316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	Ss304 / Ss420	Ss316 / Ss420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS304	SS316
upper housing shell	CI, FG 200/260	SS304	SS316
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
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Cross Sectional View



Technical Details

50Hz, Three Phase, 380-415V Water Filled Motor

kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cos ϕ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
37	50	85	400	82	0.84	45500	200	122
45	60	100	520	82	0.84	45500	268	149
55	75	120	660	83	0.84	45500	370	180
63	85	135	720	83	0.84	45500	410	206

Dimensional Details

kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
37	50	16.0	10	4.0	1236.5	166.0
45	60	16.0	10	4.0	1351.5	188.0
55	75	35.0	25	5.0	1431.5	203.0
63	85	35.0	25	5.0	1491.5	213.0