



COSMO

**SUBMERSIBLE
MOTOR**

CATALOGUE
50Hz

6



FOUNTAIN



INDUSTRIAL



LIVESTOCK
WATERING



IRRIGATION
SYSTEM



AGRICULTURE



DOMESTIC
WATER SUPPLY

APPLICATION

CPSF6

WATER FILLED MOTOR

COSMO DWC LLC

WATER FILLED TURBO SERIES



SILENT FEATURES

- Easy to Dismantle and repair
- Available From 3.0 HP to 10.0 HP in Single Phase & 3.0 HP to 40.0 HP Three Phase.

TECHNICAL DETAILS

Nominal Diameter		6" Motor (150 mm)
Max. Outer Diameter		144 mm
Power Range	1Ph	2.2 kW to 7.5 kW Single Phase
	3Ph	2.2 kW to 30.0 kW Three Phase
Speed		2880 RPM
Voltage Range	1Ph	Single Phase -230 V, 50 Hz, A.C Supply
	3Ph	Three Phase- 380-415 V, 50 Hz, A.C Supply
Class of Insulation		F
Degree of protection		IP 58
Direction of rotation		Anti-Clock wise
Type of duty		S1 (Continues)
Minimum cooling flow		0.15 m/sec
Max. Liquid temp.		33° C
Starts per hour		20 Times
Method of starting		Single Phase - Capacitor Start Capacitor Run (CSCR) Three Phase - 2.2 kW to 7.5 kW Direct On Line (DOL), 3.7 kW to 30 kW Star Delta (DOL /S.D.)
Cable lead out type		3 Core Flat Cable

SPECIAL OPTIONS

- Complete Body SS 304 Construction Special Construction Option for Corrosive Application.

FEATURES

- Suitable for 150 mm bore well.
- Stainless Steel high strength shaft.
- High Efficiency electrical design (Low Operation cost, cool running winding)
- Motor filling with water with Anti-corrosive liquid
- Specially designed thrust bearing to withstand high axial thrust loads.
- Winding connections with solid solder joints.
- Special magnet provision in motor base and newly designed self-spring action diaphragms.
- Epoxy powder coating on rotor.
- Graded cast iron housing with precisely fitted bush and special bearing counter provision for horizontal application of pump set.
- CED Coated

TECHNICAL DATA

6" 1Phase 230V, 50Hz Water Filled Motor											
kW	HP	Full load Rated Ampere	Starting Current (Amp.)	Full load Ampere	Efficiency %	Power Factor	Max. Down thrust Load (N)	Cable Size (sq. mm)	Cable Length (Meter)	Height (mm)	Net Weight (kg)
2.2	3	19	43.34	17.9	56	0.7	15500	4.0	2.75	689	47
3	4	25	50.31	21	58	0.7	15500	6.0	2.75	704	49
3.7	5	30	57.50	24	60	0.74	15500	6.0	2.75	719	51
4.5	6	35	75.10	32	64	0.74	15500	6.0	2.75	774	53
5.5	7.5	50	92.23	40.5	66	0.75	15500	8.0	2.75	819	59
7.5	10	60	108.30	48.5	72	0.76	15500	8.0	2.75	849	65

6" 3Phase 380 - 415V, 50Hz Water Filled Motor													
kW	HP	Full load Rated Ampere	Starting Current (Amp.)	Full load Ampere	Efficiency %	Power Factor	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (Meter)	Height (mm)	Net Weight (kg)
2.2	3	6.5	29.38	6.3	67	0.70	15500	17	10	1.5	2.75	689	47
3	4	8.5	37.96	8.14	67	0.70	15500	19	12	1.5	2.75	704	49
4	5	10	44.69	9.8	68	0.70	15500	20	14	2.5	2.75	704	51
4.5	6	12	50.97	11.3	70	0.71	15500	21	15	2.5	2.75	719	53
5.5	7.5	14.5	57.16	12.81	73	0.71	15500	24	18	2.5	2.75+2.75	774	59
7.5	10	19.5	79.51	18.2	74	0.71	15500	27	25	4.0	2.75+2.75	819	65
9.3	12.5	25	94.59	21.88	75	0.72	15500	35	31	4.0	2.75+2.75	849	69
11	15	29	113.12	26.44	76	0.72	15500	43	37	4.0	2.75+2.75	909	76
13	17.5	34	122.38	28.9	77	0.72	15500	51	43	4.0	3.25+3.25	939	79
15	20	39	133.09	32.39	78	0.73	15500	62	49	4.0	3.25+3.25	989	85
18.5	25	45	162.78	40.4	80	0.73	15500	98	61	6.0	3.25+3.25	1039	92
22	30	53	189.71	48	80	0.75	15500	118	74	6.0	3.25+3.25	1129	100
26	35	66	215.19	56	81	0.76	15500	146	84	8.0	3.25+3.25	1164	118
30	40	68	241.45	64	83	0.76	27500	196	98	8.0	3.25+3.25	1339	128