



COSMO

**SUBMERSIBLE
MOTOR**

CATALOGUE
50Hz

5"



FOUNTAIN



INDUSTRIAL



LIVESTOCK
WATERING



IRRIGATION
SYSTEM



AGRICULTURE



DOMESTIC
WATER SUPPLY

APPLICATION

CPSF5

WATER FILLED MOTOR

COSMO DWC LLC

WATER FILLED TURBO SERIES



SILENT FEATURES

- Easy to Dismantle and repair
- Available From 3.0 HP to 7.5 HP in Single Phase & 1.0 HP to 15.0 HP Three Phase.
- Also Available in 4" & 6" NEMA Coupling.

TECHNICAL DETAILS

Nominal Diameter		5" Motor (125 mm)
Max. Outer Diameter		122 mm
Power Range	1Ph	2.2 kW to 7.5 kW Single Phase
	3Ph	0.75 kW to 11.0 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 - Direct On Line (DOL)
Cable lead out type		3 Core Flat Cable

SPECIAL OPTIONS

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

FEATURES

- Suitable for 125 mmbore 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

5" 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	44.95	17.2	56	0.66	10000	2.5	2.5	720	39
3	4	25	51.46	20.36	58	0.67	10000	4.0	2.5	770	43
3.7	5	30	63.06	25.5	60	0.68	10000	6.0	2.5	820	47
4.5	6	35	73.16	30.22	64	0.68	10000	6.0	2.5	820	47
5.5	7.5	50	102.71	45.55	66	0.70	10000	6.0	2.5	880	52

TECHNICAL DATA

5" 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)	Cable Size (sq. mm)	Cable Length (Meter)	Height (mm)	Net Weight (kg)
0.75	1	3	15.04	2.9	55	0.65	10000	1.5	2.75	590	30
1.1	1.5	3.75	17.21	3.4	65	0.65	10000	1.5	2.75	605	32
1.5	2	4.5	20.99	4.3	66	0.65	10000	1.5	2.75	635	34
2.2	3	6.5	30.76	6.3	67	0.65	10000	1.5	2.75	670	38
3	4	8.5	39.57	8.2	67	0.65	10000	1.5	2.75	700	38
3.7	5	10	43.32	9.5	68	0.65	10000	2.5	2.75	720	39
4.5	6	12	51.88	11.5	70	0.67	10000	2.5	2.75	770	43
5.5	7.5	14.5	58.97	13.5	73	0.67	10000	2.5	2.75	820	47
7.5	10	19.5	78.89	18.25	74	0.67	10000	4.0	2.75	880	52
9.3	12.5	25	85.47	20.8	75	0.68	10000	4.0	2.75	925	56
11	15	29	107.98	26.54	76	0.68	10000	4.0	2.75	1010	62