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FOUNTAIN



INDUSTRIAL



LIVESTOCK
WATERING



IRRIGATION
SYSTEM



AGRICULTURE



DOMESTIC
WATER SUPPLY

APPLICATION

CPSF4

WATER FILLED MOTOR

COSMO DWC LLC

WATER FILLED HYPER SERIES



SILENT FEATURES

- Easy to Dismantle and Repair
- Available from 0.5HP to 5HP in single phase and 0.75HP to 7.5HP Three Phase.
- Also Available in NEMA Standard.

TECHNICAL DETAILS

Nominal Diameter	4" Motor (100 mm)	
Max. Outer Diameter	95 mm	
Power Range	1Ph	0.37 kW to 2.2 kW Single Phase
	3Ph	0.55 kW to 5.5 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	
	Three Phase - Direct On Line (DOL)	
Cable leadout type	3 Core Flat Cable	

SPECIAL OPTIONS

- Complete Body SS 304 Construction Special Construction Option for Corrosive Application.
- Also Available in 60Hz Motor.

FEATURES

- Suitable for 100mm 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.
- Key type assembly rotor and NEMA Type Rotor
- CED Coated Motor Assembly

TECHNICAL DATA

4" 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)	Starting Torque (Nm)	Torque (Nm)	Cable Size (sq. mm)	Cable Length (Meter)	Height (mm)	Net Weight (kg)
0.37	0.5	5.3	10.13	4.8	40	0.64	3000	2.0	1.2	1.0	2.75	474.5	17
0.55	0.75	6.2	11.50	5.5	42	0.65	3000	2.9	1.8	1.5	2.75	494.5	17.5
0.75	1.0	7.5	14.17	6.9	46	0.65	3000	4.1	2.5	1.5	2.75	514.5	19
1.1	1.5	10.5	20.15	9.9	49	0.65	3000	6.1	3.7	2.5	2.75	549.5	20
1.5	2	13.8	24.20	12.1	52	0.66	3000	8.3	4.9	2.5	2.75	594.5	22
2.2	3	19.8	34.60	17.9	56	0.66	6500	13.3	7.4	2.5	2.75	664.5	25.5
3.7	5	31	54.67	29	60	0.68	6500	15.5	8.6	2.5	2.75	765.0	31

TECHNICAL DATA

4" 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)
0.55	0.75	2.75	9.64	2.3	50	0.6	3000	3.4	1.9	1.5	2.75	493	18
0.75	1	3	10.27	2.5	56	0.6	3000	4.5	2.5	1.5	2.75	514.5	19.5
1.1	1.5	4	13.83	3.5	56	0.61	3000	6.7	3.7	1.5	2.75	549.5	20.5
1.5	2	4.8	16.44	4.2	60	0.61	3000	9	5	1.5	2.75	594.5	22.5
2.2	3	6.9	25.06	6.4	63	0.61	6500	14.1	7.5	1.5	2.75	664.5	26
3	4	9	31.13	8.1	63	0.62	6500	19	10	1.5	2.75	724.5	28
3.7	5	10.6	36.97	9.8	64	0.62	6500	22	12.4	2.5	2.75	764.5	31
4.5	6	12.6	42.61	11.5	67	0.63	6500	23	13.1	2.5	2.75	852.5	36
5.5	7.5	14.5	49.80	13.8	68	0.65	6500	33.7	18.7	2.5	3.2	855	36