



COSMO

**SUBMERSIBLE
MOTOR**

CATALOGUE
50Hz

9



FOUNTAIN



INDUSTRIAL



LIVESTOCK
WATERING



IRRIGATION
SYSTEM



AGRICULTURE



DOMESTIC
WATER SUPPLY

APPLICATION

CPSF9

WATER FILLED MOTOR

COSMO DWC LLC

WATER FILLED TURBO SERIES



SILENT FEATURES

- Easy to Dismantle and repair
- Available From 60.0 HP to 150.0 HP in Three Phase.

SPECIAL OPTIONS

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

FEATURES

- Suitable for 225 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 DETAILS

Nominal Diameter	9" Motor (225 mm)	
Max. Outer Diameter	225 mm	
Power Range	3Ph	45.0 kW to 93.0 kW Three Phase
Speed	2880 RPM	
Voltage Range	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	Three Phase – 45.0 kW to 93.0 kW (DOL & S.D.)	
Cable lead out type	3 Core Flat Cable	

TECHNICAL DATA

9" 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)
45	60	114	255.12	75	83	0.81	60000	16	4.0	1465	238
55	75	135	349.13	106	83	0.82	60000	25	4.0	1545	258
63	85	150	395.55	122	84	0.83	60000	25	4.0	1615	275
75	100	160	475.65	149	84	0.84	60000	25	4.0	1685	291
93	125	200	524.21	168	84	0.85	60000	25	4.0	1815	323
110	150	223	560.00	198	85	0.85	60000	35	4.0	1931	365

Submersible Pumpset Cable Selection Chart for 220 Voltage - Single Phase - 50 Hz

HP	INSTALLATION DEPTH IN MTR																								
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500			
0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6			
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	10	10	10	10		
1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	10	16	16	
1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	10	16	16	16	16	16	25	25
2	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	10	10	10	10	16	16	16	25	25	25	25	
3	2.5	2.5	2.5	2.5	4	4	6	6	6	6	10	10	10	16	16	16	16	25	25	35	35	35	35	35	
4	4	4	4	4	4	6	6	6	6	10	10	10	16	16	16	16	25	25	35	35	35	35	35	35	
5	4	4	4	4	6	6	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50	50	50	
6	6	6	6	6	10	10	10	10	10	16	16	16	25	25	25	35	35	35	50	50	50	50	50	50	
7.5	6	6	6	10	10	10	10	10	10	16	16	25	25	25	35	35	35	50	50	50	50	50	50	50	
10	10	10	10	10	10	10	10	10	16	25	25	25	25	35	35	35	50	50	50	50	50	50	50	50	

Submersible Pumpset Cable Selection Chart for 415 Voltage - Double Cable - Three Phase - 50 Hz

HP	INSTALLATION DEPTH IN MTR																									
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500				
7.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6	6	10	10	10	10	16
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	10	10	10	10	16	16
12.5	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	16	16	16	16
15	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	16	16	16	16
17.5	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	16	16	25	25	25
20	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	16	16	16	16	16	25	25	25	25
22.5	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	25	25	25	25
25	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	25	25	25	25
30	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	25	35	35	35	35
35	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	35	35	50	50	50	50
40	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	25	35	35	35	35	50	50	50	50
45	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	50	50	50	50	50
50	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	35	50	50	50	50	50	50	50	50
60	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	25	25	35	50	50	50	50	50	50	50	50
75	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	50	50	50	50	50	50	50
85	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	50	50	50	50	50	50	50	50
100	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	50	50	50	50	50	50	50	50	50	50	50
125	25	25	25	25	25	25	25	25	25	25	35	35	35	50	50	50	50	50	50	50	50	50	50	50	50	50

Submersible Pumpset Cable Selection Chart for 415 Voltage - Single Cable - Three Phase - 50 Hz

HP	INSTALLATION DEPTH IN MTR																									
	10	20	30	40	50	60	70	80	90	100	110	128	140	180	200	220	270	320	370	420	470	500				
0.75	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4
3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	4	4	4	6	6
4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	6	6	6	6	6
5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	6	6	6	10	10	10	10	10	10
6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	10	10	10
7.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	10	10	10	10	10	10	16	16	16
10	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	16	16	16	16
12.5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	16	16	16	25	25	25	25	25
15	6	6	6	6	6	6	8	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25	25	25	25
17.5	6	6	6	6	6	6	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25	25	35	35	35	35
20	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10	16	16	16	25	25	25	25	35	35	35	35
22.5	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	35	35	50	50	50
25	8	8	8	8	8	8	8	8	10	10	10	10	10	16	16	16	25	25	35	35	35	35	35	50	50	50
30	10	10	10	10	10	10	10	10	10	10	10	16	16	16	25	25	25	35	35	35	50	50	50	50	50	50
35	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	50	50	50	50	50	50
40	16	16	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	50	50	50	50	50	50	50	50	50
45	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	50	50	50	50	50	50
50	16	16	16	16	16	16	16	16	16	16	16	25	25	25	35	35	35	50	50	50	50	50	50	50	50	50
60	25	25	25	25	25	25	25	25	25	25	25	25	25	35	35	35	50	50	50	50	50	50	50	50	50	50
75	25	25	25	25	25	25	25	25	25	25	25	25	35	35	50	50	50	50	50	50	50	50	50	50	50	50
85	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
100	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
125	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50