

M4OS

Submersible Borehole Motors For 4" Well

Construction

Submersible borehole motors for 4"(100mm) deep well gives best in class performance with greater reliability even in low voltage. The component materials used ensures superior quality and ease of installation.

Operating Conditions

- Maximum water temperature : upto 33 °C
- Water Ph : 4 to 8
- Maximum immersion depth : 450m

Maximum number of starts

- Direct start : 15/hour
- Impedance start : 10/hour

Standard Voltage

- Single phase 230V up to 1.5kw
- Three phase 440V up to 7.5kw
- Voltage tolerances : As per NEMA MG 1
- Insulation category : B
- Protection Class : IP X8

Oil filled motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm)
- The stator and Rotor stampings of the motor made from special type of material. Edible grade oil filled for cooling

Special features and benefits

- Ideal for solar & Low voltage applications
- High quality Input materials
- 100% Ensured performance

MATERIAL SPECIFICATIONS

Components	Materials
Body	SS 304
Housings	CI FG 250 (Wrapped with SS 304)
Rotor shaft	SS 420
Thrust Bearing	Double Groove Ball Bearings
Seal	Mechanical Seal, Ceramic& Carbon
Bush	LTB4



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Single Phase Characteristics

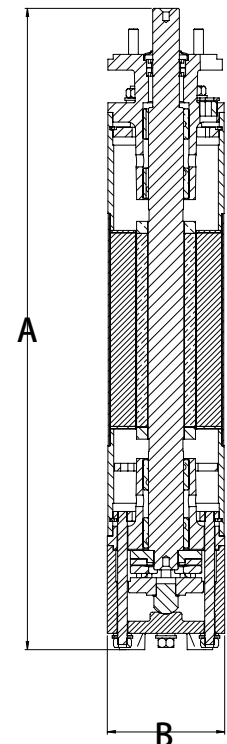
Product Code	P1		I1	SPEED RPM	POWER FACTOR			EFFICIENCY		
	HP	kW	A		4/4	3/4	2/4	4/4	3/4	2/4
M4OS03M5	0.50	0.37	5.3	2850	0.93	0.83	0.65	44	45	38
M4OS05M5	0.75	0.55	6.2		0.94	0.84	0.66	47	48	40
M4OS07M5	1.0	0.75	7.5		0.95	0.85	0.67	53	54	44
M4OS11M5	1.5	1.1	10.5		0.95	0.85	0.67	56	57	46
M4OS15M5	2.0	1.5	13.8		0.97	0.87	0.68	58	59	48
M4OS22M5	3.0	2.2	19.8		0.98	0.89	0.69	63	64	53

Three Phase Characteristics

Product Code	P1		I1	SPEED RPM	POWER FACTOR			EFFICIENCY		
	HP	kW	A		4/4	3/4	2/4	4/4	3/4	2/4
M4OS07T5	1.0	0.75	2.5	2850	0.59	0.53	0.41	65	66	55
M4OS11T5	1.5	1.1	4.0		0.62	0.56	0.44	66	67	56
M4OS15T5	2.0	1.5	4.8		0.65	0.58	0.46	70	71	59
M4OS22T5	3.0	2.2	6.9		0.69	0.62	0.48	72	73	61
M4OS30T5	4.0	3.0	9.0		0.71	0.64	0.50	73	74	62
M4OS37T5	5.0	3.7	10.6		0.73	0.65	0.51	73	74	62
M4OS45T5	6.0	4.5	12.6		0.74	0.66	0.52	74	75	63

Dimensions, Weights and Cable Data

Product Code	P1		DIMENSIONS (mm)		CABLE DATA		WEIGHT
	HP	kW	A	B	Sec (mm ²)	L m	Kg
M4OS03M5	0.50	0.37	97.5	530	1.5	3	15
M4OS05M5	0.75	0.55	97.5	530	1.5	3	15
M4OS07M5, M4OS07T5	1.0	0.8	97.5	530	1.5	3	15
M4OS11M5, M4OS11T5	1.5	1.1	97.5	570	1.5	3	17
M4OS15M5, M4OS15T5	2.0	1.5	97.5	570	2.5	3	21
M4OS22M5, M4OS22T5	3.0	2.2	97.5	650	2.5	3	21
M4OS30T5	4.0	3.0	97.5	710	2.5	3	24
M4OS37T5	5.0	3.7	97.5	750	2.5	3	26



* M - Single Phase, T - Three Phase