M4WSSubmersible Borehole Motors For 4" Well



Construction

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

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Operating Conditions

Maximum water temperature : upto 35 °C
 Water Ph : 4 to 8
 Maximum immersion depth : 220m

Maximum number of starts

Direct start : 15/hourImpedance start : 10/hour

Water filled motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm) is easy to dismantle and rewind
- The stator stampings of the motor body are made up of special type material which can withstand all type of water corrosions

Standard Voltage

Single phase 230V up to 2.2kw
Three phase 440V up to 4.5kw
Voltage tolerances: +6% -15%

• Insulation category: B

Special features and benefits

- Rotors are dynamically balanced for smooth operation
- High quality thrust bearings to withstanding axial stress
- Wounded motor body has been tested by using highly precise testing equipments
- Motor assembly is closely monitored by high qualified and experienced quality assurance team at each level of process

MATERIAL SPECIFICATIONS

Components	Materials
Body	SS 304
Housings	SS304
Rotor shaft	SS 420 (Hardened)
Thrust Bearing	Carbon, SS410
Seal	Oil Seal, Nitrile Rubber
Bush	LTB4



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Single Phase Characteristics

Product	Р	1	- 11	SPEED	PO	WER FACT	OR	EFFICIENCY		
Code	HP	kW	Α	RPM	4/4	3/4	2/4	4/4	3/4	2/4
M4WS03M5	0.37	0.50	5.3	2850	0.91	0.81	0.63	43	44	37
M4WS05M5	0.55	0.75	6.2		0.92	0.82	0.64	46	47	39
M4WS07M5	0.75	1	7.5		0.93	0.83	0.65	51	52	43
M4WS11M5	1.1	1.5	10.5		0.93	0.83	0.65	54	55	45
M4WS15M5	1.5	2	13.8		0.95	0.85	0.66	56	57	47
M4WS22M5	2.2	3	19.8		0.97	0.87	0.67	61	62	51

Three Phase Characteristics

Product	Р	P1		SPEED	PO	WER FACT	OR	EFFICIENCY		
Code	HP	kW	Α	RPM	4/4	3/4	2/4	4/4	3/4	2/4
M4WS07T5	0.75	1.0	2.5	2850	0.57	0.51	0.39	63	64	53
M4WS11T5	1.1	1.5	4		0.60	0.54	0.42	64	65	54
M4WS15T5	1.5	2.0	4.8		0.63	0.56	0.44	68	69	57
M4WS22T5	2.2	3.0	6.9		0.67	0.60	0.46	70	71	59
M4WS30T5	3.0	4.0	9		0.69	0.62	0.48	71	72	60
M4WS37T5	3.7	5.0	10.6		0.71	0.63	0.49	71	72	60
M4WS45T5	4.5	6.0	12.6		0.72	0.64	0.50	72	73	61

Dimensions, Weights and Cable Data

Product Code	P1	١	DIMENSI	ONS (mm)	CABLE	WEIGHT	
	HP	kW	A	В	Sec (mm²)	L	Kg
M4WS03M5	0.50	0.37	97.5	530	1.5	3	18
M4WS05M5	0.75	0.55	97.5	530	1.5	3	18
M4WS07M5, M4WS07T5	1.0	0.75	97.5	530	1.5	3	18
M4WS11M5, M4WS11T5	1.5	1.1	97.5	570	1.5	3	20
M4WS15M5, M4WS15T5	2.0	1.5	97.5	570	2.5	3	24
M4WS22M5, M4WS22T5	3.0	2.2	97.5	650	2.5	3	24
M4WS30T5	4.0	3.0	97.5	710	2.5	3	27
M4WS37T5	5.0	3.7	97.5	750	2.5	3	29
M4WS45T5	6.0	4.5	97.5	750	2.5	3	29

