

Submersible Rewindable Motor

**3" OF
Standard**

Quality for your borewell :

These motors are rewindable oil filled submersible motors which are designed and sized for installation in 3" diameter or larger water wells. They are also available in complete stainless steel construction.

Product Features :

- 3" Oil filled submersible motor.
- Completely rewindable.
- Cooling and lubrication by non toxic fluid.
- Stainless steel outer shell and shaft.
- Maintenance free lubricated ball bearings.
- Mechanical shaft seal (Carbon/Ceramic) provided.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- Single phase motors are permanent split capacitor motors.
All single phase motors will require control box.
- 3" NEMA coupling flange.
- Pressure compensation diaphragm.

Specifications :

- Ratings: Single phase - 0.37 to 1.1 kW
- Supply voltages (Tolerance +6% / -10%):
50 Hz, 1 phase, 230 V
60 Hz, 1 phase, 230 V
- Insulation class: F
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Single phase - CCW
Three phase - CCW and CW
- Maximum nos. of starts/hour: 30
- Water pH: 6.5 - 8
- Minimum cooling flow along the motor: 8 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x I_n
- Maximum submerged depth: 350 metres
- Mounting: vertical / horizontal.

On Request :

- AISI 304/316 stainless steel construction.
- Special voltages.

Cable Data :

HP	Type of start	Cable x Leads x Size (mm ²)	Length [m]	H x B [mm]
Single phase				
0.5 to 1.5	DOL	1 x 4 x 1.5	2.5	6 x 15.8



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Motors that are top class in Performance & Reliability

Cable

Cable safe for drinking water.

Earth cable

Outside earth cable provided.

Windings

Rewindable motor construction allows for low – cost motor repair that can be done locally.

Efficiency

High efficiency provides energy saving.

Thrust

Thrust bearing is larger than the competition and is rated to take much more thrust load than what would be subjected by the pump.

Shaft Extension

Stainless steel splined shaft extension to NEMA

Shaft seal

Carbon v/s ceramic Mech. Shaft seal is standard. Available with high sand resistance sic/sic mechanical shaft seal.

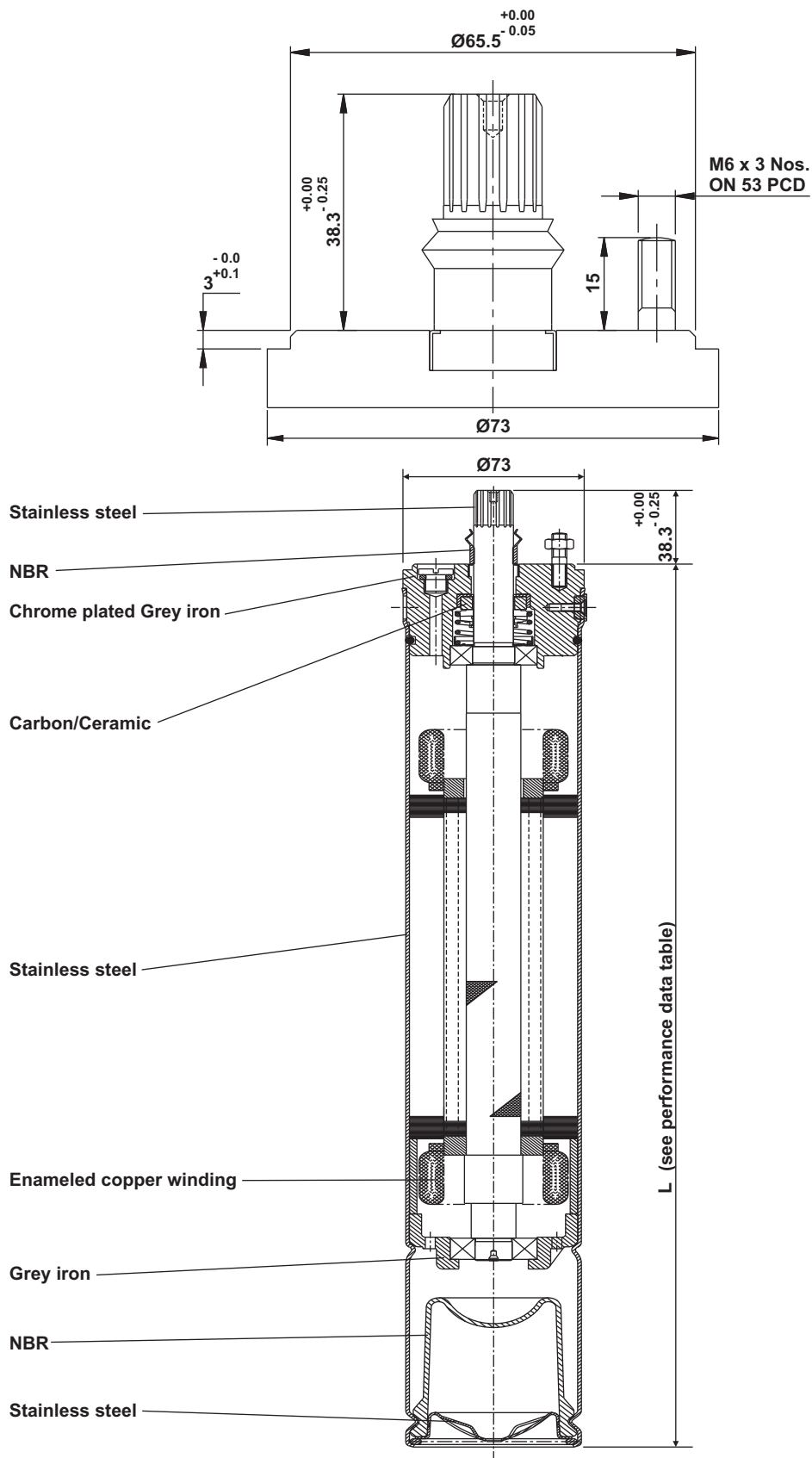
Easy Maintenance

Designed for easy disassembly & repair



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Shaft :

Spline shaft: 14 teeth, 24/48 pitch, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 3".

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3" Submersible Rewindable Motor Performance Data 50 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min ⁻¹]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						[A]		50%	75%	100%	50%				
Single phase																	
H3505	0.37	0.50	1200	230	3.40	3.30	2850	53.0	54.0	56.0	0.80	0.82	0.84	1.23	458	8.7	0.0041
H3507	0.55	0.75	1200	230	4.60	3.40	2850	55.0	59.0	61.0	0.82	0.83	0.85	1.83	483	9.4	0.0043
H3510	0.75	1.00	1200	230	6.00	3.50	2850	57.0	61.0	63.0	0.83	0.85	0.86	2.50	533	10.5	0.0045
H3512	0.93	1.25	1200	230	7.80	3.55	2850	58.0	62.0	65.0	0.84	0.86	0.87	3.00	533	10.7	0.0048
H3515	1.10	1.50	1200	230	8.10	3.55	2850	60.0	65.0	67.0	0.84	0.87	0.88	3.65	533	11.1	0.0050

Pn: Rated output

Ka: Thrust load

Un: Rated voltage

In: Rated current

Ist/In: Locked rotor current/Rated amperage

n: Rated speed

η: Efficiency

cos φ: Power factor

Tn: Rated torque

L: Motor length

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3" Submersible Rewindable Motor Performance Data 60 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In	Ist/In	n [min ⁻¹]	η [%]			COS φ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						[A]			50%	75%	100%				
Single phase																	
H3605	0.37	0.50	1200	230	3.50	7.00	3450	42.0	46.0	48.0	0.94	0.97	0.99	1.10	458	8.7	0.0041
H3607	0.55	0.75	1200	230	5.00	7.90	3450	46.0	49.0	51.0	0.95	0.98	0.99	1.75	483	9.4	0.0043
H3610	0.75	1.00	1200	230	6.50	8.50	3450	47.0	50.0	52.0	0.95	0.98	0.99	2.35	508	10.5	0.0045
H3612	0.93	1.25	1200	230	8.50	8.60	3450	48.0	51.0	53.0	0.88	0.91	0.94	2.85	533	10.7	0.0048
H3615	1.10	1.50	1200	230	10.00	9.00	3450	48.0	52.0	54.0	0.88	0.91	0.94	3.50	558	11.1	0.0050

Pn: Rated output

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Un: Rated voltage

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