Submersible Rewindable Motor

6" OF Standard

Quality for your borewell :

These motors are rewindable oil filled submersible motors which are designed and sized for installation in 6" diameter or larger water wells.

Product Features :

- 6" 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).
- 6" NEMA coupling flange.
- Pressure compensation diaphragm.

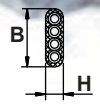
Specifications :

- Ratings: Three phase - 3 to 37 kW
- Supply voltages (Tolerance +10% / -15%):
  50 Hz, 3 phase, 380 V, 400 V, 415 V
  60 Hz, 3 phase, 230 V, 380 V, 460 V
- Insulation class: F
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Three phase - CCW and CW
- Maximum nos. of starts/hour: 20
- Water pH: 6.5 - 8
- Minimum cooling flow along the motor:
  3 to 15 kW - 15 cm/sec
  18.5 to 37 kW - 30 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 250 metres
- Mounting: vertical / horizontal (up to 15 kW).

On Request :

- AISI 304/316 stainless steel construction.
- Built-in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.

Cable Data :

HP	Type of start	Cable x Leads x Size (mm²)	Length [m]	H x B [mm]	
4.00 to 50.0	DOL	1 x 4 x 6	3.5	7.9 x 24.3	

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Submersible Rewindable Motor

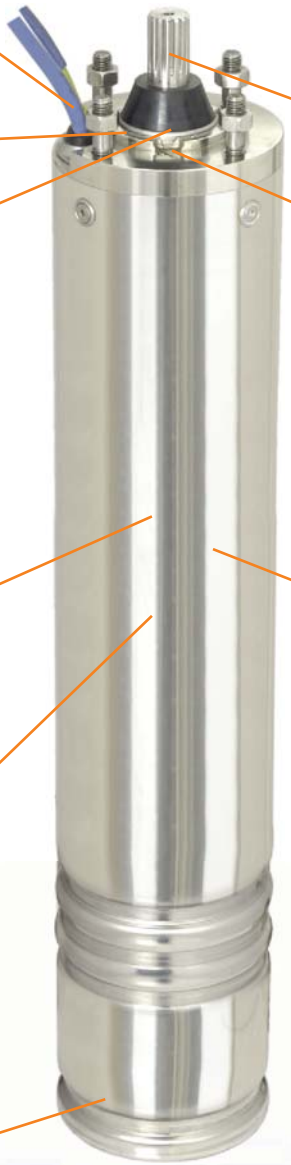
Motors that are top class in Performance & Reliability

6" OF Standard

Cable
Cable safe for drinking water.

Earth cable
Outside earth cable provided.

Sensor
Temperature protection by means of PT 100 sensor (Optional).



Shaft Extension
Stainless steel splined shaft extension to NEMA

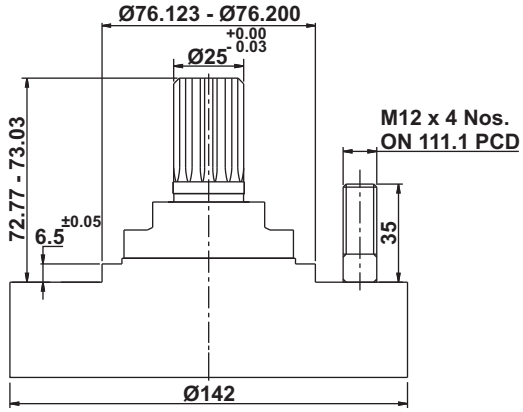
Shaft seal
Carbon v/s ceramic Mech. Shaft seal is standard. Available with high sand resistance sic/sic mechanical shaft seal.

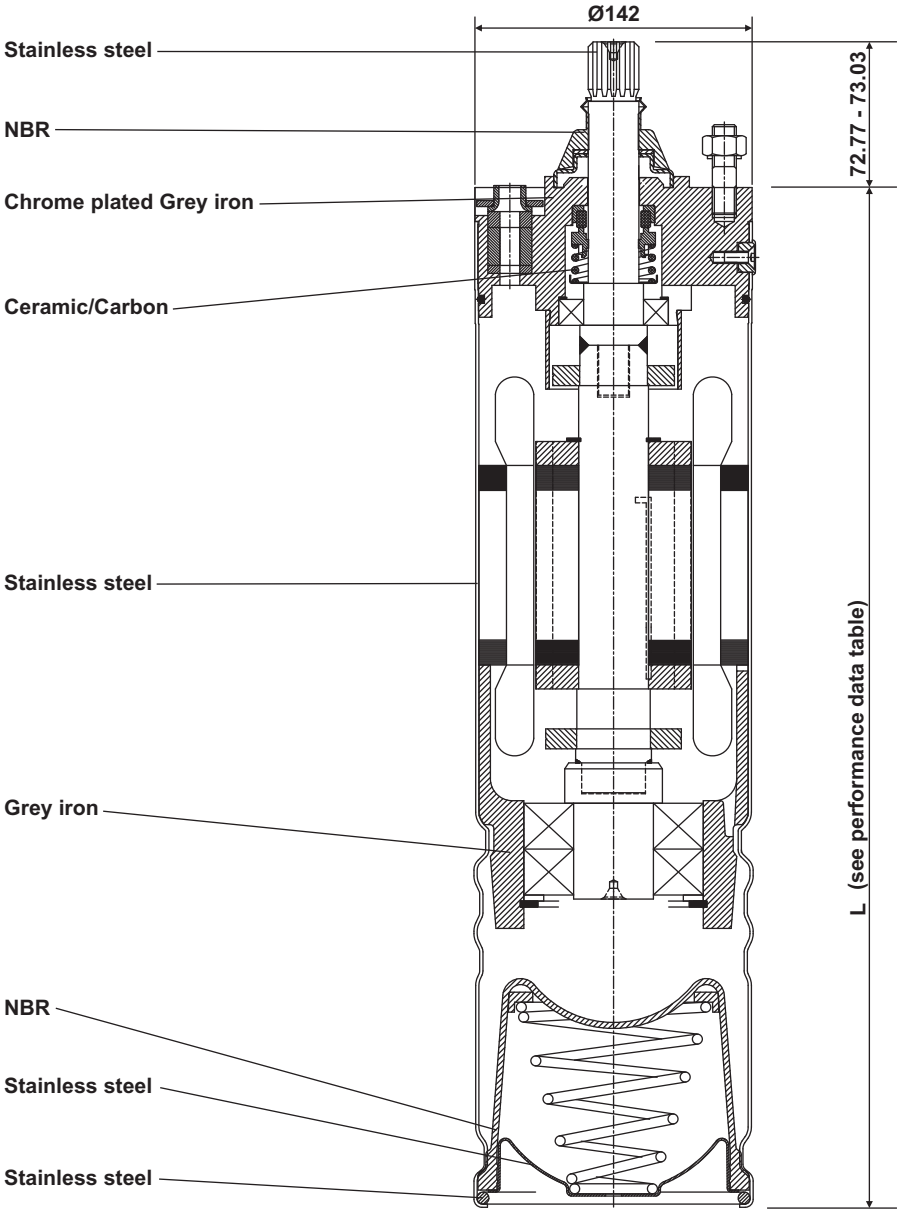
Windings
Rewindable motor construction allows for low – cost motor repair that can be done locally.

Easy Maintenance
Designed for easy disassembly & repair

Efficiency
High efficiency provides energy saving.

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





Shaft :
Spline shaft: 15 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 6".

Submersible Rewindable Motor

6" Submersible Rewindable Motor Performance Data 50 Hz

6" OF Standard

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 [m³]
	kW	HP			[A]			50%	75%	100%	50%	75%	100%				
H6504	3.00	4.00	10000	380	7.40	4.00	2860	69.6	76.2	77.5	0.62	0.73	0.81	10.02	531	42.6	0.0404
				400	7.30	3.90	2870	70.8	76.7	78.5	0.60	0.71	0.80	9.99			
				415	7.00	4.00	2870	71.2	76.7	78.0	0.59	0.70	0.79	9.99			
H6505	4.00	5.50	10000	380	9.40	4.00	2860	70.6	76.7	78.0	0.64	0.75	0.83	13.36	546	44.6	0.0435
				400	9.00	3.90	2870	71.8	77.2	78.5	0.62	0.73	0.82	13.32			
				415	8.80	4.00	2870	72.0	77.4	78.5	0.61	0.72	0.81	13.32			
H6507	5.50	7.50	10000	380	12.7	4.10	2860	72.4	77.2	78.5	0.65	0.76	0.84	18.37	586	48.8	0.0435
				400	12.2	4.00	2870	73.8	77.7	79.0	0.63	0.74	0.83	18.31			
				415	11.9	4.10	2870	74.0	78.2	79.5	0.62	0.73	0.82	18.31			
H6510	7.50	10.00	10000	380	17.1	5.10	2860	73.3	77.7	79.5	0.65	0.76	0.84	25.05	621	53.3	0.0483
				400	16.2	5.00	2870	74.3	78.7	80.0	0.64	0.75	0.84	24.96			
				415	15.7	5.10	2870	74.6	79.2	80.5	0.63	0.74	0.83	24.96			
H6512	9.30	12.50	10000	380	20.9	5.20	2860	74.8	79.7	81.5	0.64	0.75	0.83	31.07	656	57.0	0.0483
				400	19.7	5.00	2870	76.8	80.7	82.0	0.63	0.74	0.83	30.96			
				415	19.5	4.90	2870	77.0	80.9	82.2	0.62	0.73	0.82	30.96			
H6515	11.00	15.00	10000	380	24.0	5.10	2860	75.8	81.2	83.0	0.65	0.76	0.84	36.75	691	63.1	0.0514
				400	22.6	5.00	2870	77.8	82.2	83.5	0.64	0.75	0.84	36.62			
				415	22.5	5.20	2870	78.0	82.5	83.8	0.63	0.74	0.83	36.62			
H6517	13.00	17.50	10000	380	28.5	4.90	2850	75.9	80.7	82.5	0.65	0.76	0.84	43.58	726	67.3	0.0563
				400	27.2	5.00	2860	78.0	81.7	83.0	0.63	0.74	0.83	43.43			
				415	26.5	5.10	2860	78.2	82.1	83.4	0.62	0.73	0.82	43.43			
H6520	15.00	20.00	10000	380	32.9	5.20	2850	76.0	80.7	82.4	0.65	0.76	0.84	50.29	761	71.0	0.0563
				400	31.1	5.10	2860	78.1	81.7	83.0	0.64	0.75	0.84	50.11			
				415	30.5	5.30	2860	78.3	82.2	83.5	0.63	0.74	0.83	50.11			
H6525	18.50	25.00	10000	380	40.1	5.05	2850	77.3	81.7	83.5	0.65	0.76	0.84	62.02	831	78.8	0.0594
				400	37.8	5.10	2860	78.8	82.7	84.0	0.64	0.75	0.84	61.80			
				415	37.1	5.15	2860	79.3	83.2	84.5	0.62	0.73	0.82	61.80			
H6530	22.00	30.00	10000	380	47.1	5.05	2850	77.8	82.7	84.5	0.65	0.76	0.84	73.75	886	83.5	0.0636
				400	44.5	5.15	2860	79.9	83.7	85.0	0.64	0.75	0.84	73.50			
				415	43.5	5.20	2860	80.1	84.0	85.3	0.63	0.74	0.83	73.50			
H6540	30.00	40.00	20000	380	62.4	5.12	2850	78.6	82.9	85.0	0.67	0.78	0.86	100.60	996	96.0	0.0704
				400	58.5	5.20	2860	80.8	84.7	86.0	0.66	0.77	0.86	100.22			
				415	57.9	5.22	2860	81.0	84.7	86.1	0.64	0.75	0.84	100.22			
H6550	37.00	50.00	20000	380	75.9	5.35	2850	78.8	83.1	85.1	0.68	0.79	0.87	124.00	1091	102.5	0.0747
				400	71.5	5.30	2860	80.8	84.7	86.0	0.67	0.78	0.87	123.61			
				415	71.1	5.32	2860	81.0	84.8	86.2	0.65	0.76	0.86	123.61			

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

Submersible Rewindable Motor

6" Submersible Rewindable Motor Performance Data 60 Hz

6" OF Standard

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 [m³]
	kW	HP			[A]			50%	75%	100%	50%	75%	100%				
H6604	3.00	4.00	10000	230	17.6	5.25	3440	67.8	71.8	74.0	0.63	0.74	0.79	8.33	531	42.6	0.0404
				380	9.70	4.50	3440	68.8	72.8	74.0	0.64	0.74	0.80	8.33			
				460	9.00	4.60	3450	69.8	73.8	75.0	0.63	0.73	0.79	8.31			
H6605	4.00	5.50	10000	230	19.5	5.26	3440	67.8	72.8	74.0	0.63	0.74	0.80	11.10	546	44.6	0.0435
				380	11.6	4.55	3440	68.8	72.8	74.0	0.64	0.74	0.80	11.10			
				460	10.0	4.63	3450	69.8	73.8	75.0	0.63	0.73	0.79	11.07			
H6607	5.50	7.50	10000	230	28.4	5.30	3450	72.8	77.8	79.0	0.63	0.75	0.82	15.23	586	48.8	0.0435
				380	16.2	4.88	3450	73.8	77.8	79.0	0.65	0.75	0.82	15.23			
				460	14.4	4.72	3450	74.8	78.8	80.0	0.64	0.74	0.81	15.23			
H6610	7.50	10.00	10000	230	33.8	5.40	3440	72.8	77.8	80.0	0.66	0.78	0.85	20.83	621	53.3	0.0483
				380	19.5	5.30	3440	74.8	78.8	80.0	0.68	0.78	0.85	20.83			
				460	17.0	5.06	3450	74.8	78.8	80.0	0.67	0.77	0.84	20.77			
H6612	9.30	12.50	10000	230	43.3	5.49	3450	73.8	78.8	80.0	0.64	0.76	0.81	25.80	656	57.0	0.0483
				380	25.1	4.89	3450	74.8	78.8	80.0	0.66	0.76	0.81	25.80			
				460	21.0	4.89	3460	75.8	79.8	81.0	0.65	0.75	0.80	25.68			
H6615	11.00	15.00	10000	230	48.5	5.59	3460	74.8	79.8	81.0	0.66	0.78	0.84	30.40	691	63.1	0.0514
				380	28.2	5.25	3460	75.8	79.8	81.0	0.68	0.78	0.84	30.40			
				460	23.5	5.25	3460	76.8	80.8	82.0	0.67	0.77	0.83	30.40			
H6617	13.00	17.50	10000	230	57.0	5.63	3450	74.8	79.8	82.0	0.66	0.78	0.84	36.00	726	67.3	0.0563
				380	33.0	5.36	3450	76.8	80.8	82.0	0.68	0.78	0.84	36.00			
				460	27.7	5.36	3460	76.8	80.8	82.0	0.67	0.77	0.83	35.90			
H6620	15.00	20.00	10000	230	63.8	5.65	3450	75.8	81.8	83.0	0.65	0.77	0.84	41.54	761	71.0	0.0563
				380	37.4	5.37	3450	76.8	81.8	83.0	0.67	0.77	0.84	41.54			
				460	31.1	5.35	3460	77.8	82.8	84.0	0.66	0.76	0.83	41.42			
H6625	18.50	25.00	10000	230	76.4	5.65	3460	75.8	81.8	84.0	0.64	0.77	0.83	51.10	831	78.8	0.0594
				380	46.0	5.70	3460	77.8	82.8	84.0	0.66	0.77	0.83	51.10			
				460	38.2	5.69	3460	77.8	82.8	84.0	0.66	0.76	0.82	51.10			
H6630	22.00	30.00	10000	230	93.0	5.60	3450	76.8	82.8	85.0	0.66	0.78	0.84	60.93	886	83.5	0.0636
				380	53.8	6.22	3450	78.8	83.8	85.0	0.68	0.78	0.84	60.93			
				460	48.0	5.80	3460	78.8	83.8	85.0	0.67	0.77	0.83	60.75			
H6640	30.00	40.00	20000	230	119.0	5.76	3450	75.8	82.8	85.0	0.67	0.78	0.85	83.08	996	96.0	0.0704
				380	72.4	6.17	3450	78.8	83.8	85.0	0.68	0.78	0.85	83.08			
				460	60.4	6.19	3460	78.8	83.8	85.0	0.67	0.77	0.84	82.84			
H6650	37.00	50.00	20000	230	147.0	5.80	3450	75.8	82.8	85.0	0.67	0.78	0.85	102.50	1091	102.5	0.0747
				380	87.0	6.20	3450	78.8	83.8	86.0	0.68	0.79	0.86	102.50			
				460	74.0	6.18	3460	77.8	83.8	85.0	0.67	0.77	0.84	102.18			

Pn: Rated output
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In: Rated current
Ist/In: Locked rotor current/Rated amperage
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NOTE