

Quality for your borewell :

These motors are heavy duty, rewindable, stainless steel water filled submersible motors which are designed and sized for installation in 8" diameter or larger water wells. They are of robust construction and are furnished with heavy duty radial & thrust bearings to take the extra radial & thrust load when used with high head pump.

Product Features :

- 8" Water filled heavy duty stainless steel submersible motor.
- Easily rewindable (wet wound) induction motor with PE insulated windings.
- Completely stainless steel AISI 304 construction.
- Water lubricated heavy duty radial and axial thrust bearings.
- Counter thrust bearing.
- Motors are pre-filled with clean water + Glycol mixture.
- Shaft extension made of stainless steel AISI 316.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- 8" NEMA coupling flange.
- Pressure compensation diaphragm.

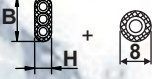
Specifications :

- Ratings: Three phase - 30 to 130 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
- Degree of protection: IP 68
- Continuous duty
- Ambient temperature: 45°C
- Rotation: Three phase - CCW and CW
- Maximum nos. of starts/hour:
30 to 55 kW - 25
66 to 130 kW - 20
- Water pH: 6.5 - 8
- Minimum cooling flow along the motor:
30 to 37 kW - 30 cm/sec
45 to 130 kW - 45 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x I_n
- Maximum submerged depth: 200 metres.

On Request :

- Mechanical shaft seal Sic/Sic.
- 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 (mm ²)	Length [m]	H x B [mm]	
40.0 to 125.0	DOL	1 x 4 x 16	5	14 x 37.6	
150.0 to 175.0	DOL	1 x 3 x 35 + 1 x 1 x 16	5	15.3 x 35	



Submersible Rewindable Motor

Motors that are top class in Performance & Reliability

8" WF Premium Stainless Steel

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

Mechanical shaft seal is standard

Windings

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

Easy Maintenance

Designed for easy disassembly & repair

Efficiency

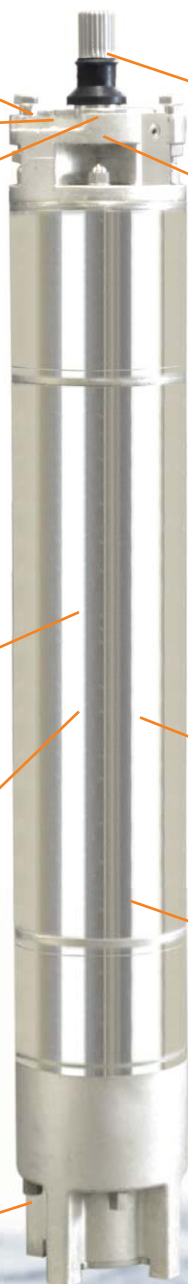
High efficiency provides energy saving.

Contamination

Water filled motor design prevents water contamination.

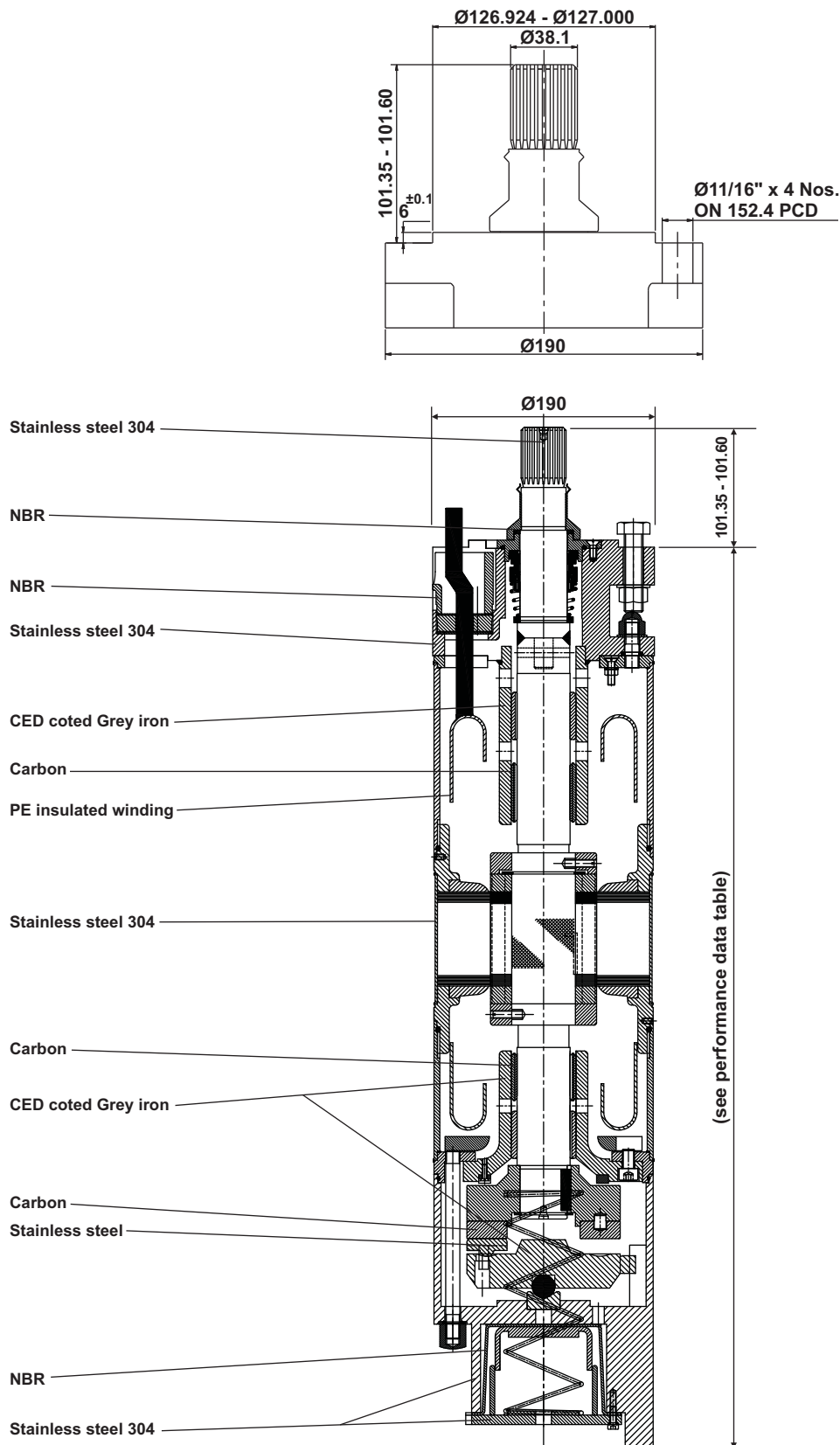
Thrust

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



Submersible Rewindable Motor

**8" WF Premium
Stainless Steel**



Shaft :

Spline shaft: 23 teeth, 16/32 pitch, module 1.5875, 30° pressure angle, coupling tolerance 5 as per ANSI B.92.1, confirming with NEMA 8".

Submersible Rewindable Motor

**8" WF Premium
Stainless Steel**

8" Submersible Rewindable Motor Performance Data 50 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In [A]	Ist/In	n [min ⁻¹]	η [%]			COS ϕ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						50%	75%	100%	50%	75%	100%				
L8540-KHSS	30.00	40.00	45000	380	62.8	4.51	2890	79.9	83.3	84.2	0.72	0.83	0.89	99.19	1012	183.0	0.1900
				400	59.9	4.61	2900	81.1	84.1	85.0	0.71	0.84	0.89	98.84			
				415	57.8	4.66	2900	80.7	83.9	84.9	0.69	0.83	0.88	98.84			
L8550-KHSS	37.00	50.00	45000	380	78.0	4.70	2890	80.1	83.1	84.1	0.74	0.84	0.88	122.30	1112	205.0	0.2100
				400	75.0	4.80	2900	81.3	84.1	85.0	0.72	0.83	0.86	121.90			
				415	74.0	4.85	2900	80.7	83.5	84.4	0.70	0.80	0.84	121.90			
L8560-KHSS	45.00	60.00	45000	380	92.5	4.70	2890	80.3	83.3	85.2	0.73	0.87	0.88	148.80	1212	228.0	0.2200
				400	89.8	4.80	2900	81.5	84.1	85.9	0.72	0.81	0.86	148.30			
				415	88.8	4.90	2900	81.3	83.9	85.8	0.70	0.80	0.84	148.30			
L8575-KHSS	55.00	75.00	45000	380	113.8	4.90	2890	80.5	84.1	85.7	0.74	0.84	0.88	181.84	1262	240.0	0.2300
				400	109.5	5.00	2910	81.9	85.1	86.4	0.72	0.82	0.86	180.60			
				415	108.8	5.10	2910	81.5	84.7	86.2	0.69	0.80	0.84	180.60			
L8590-HSS	66.00	90.00	45000	380	135.5	4.90	2890	80.7	85.3	86.4	0.74	0.85	0.89	218.20	1350	249.0	0.2400
				400	131.0	5.00	2910	81.9	85.9	86.9	0.72	0.83	0.86	216.70			
				415	128.5	5.05	2910	81.3	85.3	86.6	0.69	0.81	0.84	216.70			
L85100-HSS	75.00	100.0	45000	380	151.0	4.91	2890	80.9	84.7	86.2	0.74	0.85	0.89	247.96	1397	261.0	0.2500
				400	147.0	5.01	2910	81.9	85.5	87.0	0.72	0.83	0.87	246.26			
				415	145.5	5.11	2910	81.7	85.3	86.6	0.70	0.79	0.84	246.26			
L85125-HSS	93.00	125.0	45000	380	186.8	4.91	2900	80.5	84.5	86.5	0.75	0.84	0.88	306.40	1537	293.0	0.2700
				400	181.0	5.01	2910	81.5	86.4	87.8	0.71	0.81	0.86	305.36			
				415	180.5	5.06	2920	81.7	85.5	87.0	0.70	0.79	0.84	304.31			
L85150-HSS	110.0	150.0	45000	380	231.0	4.92	2890	79.0	83.3	85.0	0.72	0.81	0.85	363.68	1667	323.0	0.2900
				400	224.0	5.02	2900	79.5	84.1	85.5	0.71	0.79	0.83	362.42			
				415	220.0	5.08	2900	80.0	84.7	86.0	0.69	0.77	0.81	362.42			
L85175-HSS	130.0	175.0	45000	380	273.0	4.93	2890	79.2	83.4	85.2	0.72	0.81	0.85	429.80	1867	370.0	0.3200
				400	261.0	5.02	2900	79.7	84.3	85.7	0.71	0.80	0.84	428.32			
				415	256.0	5.08	2900	80.2	84.9	86.2	0.70	0.78	0.82	428.32			

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

**8" WF Premium
Stainless Steel**

8" Submersible Rewindable Motor Performance Data 60 Hz

Performance data

Motor type	Pn		Ka [N]	Un [V]	In [A]	Ist/In	n [min ⁻¹]	η [%]			COS ϕ			Tn [Nm]	L [mm]	Gross weight [kg]	Gross volume [m ³]
	kW	HP						50%	75%	100%	50%	75%	100%				
L8640-KHSS	30.00	40.00	45000	230	118.5	5.76	3480	81.9	83.9	85.0	0.77	0.83	0.86	82.40	972	174.0	0.1900
				380	70.1	5.66	3500	82.9	84.7	85.0	0.77	0.84	0.88	81.90			
				460	57.2	5.76	3480	82.1	84.3	85.0	0.78	0.84	0.89	82.40			
L8650-KHSS	37.00	50.00	45000	230	149.6	5.76	3480	82.1	83.9	85.0	0.75	0.81	0.84	101.60	1012	183.0	0.1900
				380	89.1	5.75	3500	82.7	84.7	85.4	0.76	0.82	0.85	101.00			
				460	72.2	5.75	3480	82.1	84.5	85.0	0.77	0.84	0.87	101.60			
L8660-KHSS	45.00	60.00	45000	230	179.8	5.75	3500	83.1	84.9	86.0	0.75	0.81	0.84	122.85	1112	205.0	0.2100
				380	107.6	5.80	3510	83.9	85.7	86.0	0.75	0.81	0.85	122.50			
				460	86.5	5.80	3500	83.3	85.5	86.3	0.76	0.82	0.87	122.85			
L8675-KHSS	55.00	75.00	45000	230	217.3	5.75	3500	83.2	85.3	87.0	0.75	0.80	0.84	150.00	1212	228.0	0.2200
				380	130.0	5.80	3510	84.2	86.1	87.0	0.76	0.82	0.85	149.72			
				460	104.9	5.80	3500	83.7	85.9	87.0	0.76	0.82	0.87	150.00			
L8690-HSS	66.00	90.00	45000	230	254.7	5.75	3500	83.3	86.1	88.0	0.74	0.81	0.85	180.20	1262	240.0	0.2300
				380	152.4	6.00	3510	84.9	87.2	88.0	0.75	0.82	0.86	179.66			
				460	124.4	6.00	3500	84.1	86.9	88.0	0.76	0.83	0.87	180.20			
L86100-HSS	75.00	100.0	45000	230	286.1	5.76	3500	83.5	85.9	88.0	0.75	0.82	0.86	204.70	1350	249.0	0.2400
				380	169.2	6.01	3510	85.1	87.3	88.0	0.76	0.84	0.88	204.16			
				460	139.8	6.01	3500	84.2	86.9	88.0	0.77	0.83	0.88	204.70			
L86125-HSS	93.00	125.0	45000	230	363.2	5.76	3500	83.7	85.7	88.0	0.75	0.81	0.84	253.80	1397	261.0	0.2500
				380	216.3	6.01	3510	84.7	87.1	88.4	0.75	0.81	0.85	253.16			
				460	174.7	6.01	3500	84.5	86.9	88.3	0.76	0.82	0.87	253.80			
L86150-HSS	110.0	150.0	45000	380	263.0	6.01	3500	82.3	84.7	86.0	0.75	0.81	0.85	300.29	1537	293.0	0.2700
				460	214.0	6.01	3480	82.4	84.9	86.2	0.76	0.82	0.86	302.02			
L86175-HSS	130.0	175.0	45000	460	250.0	6.01	3480	85.0	85.0	86.3	0.77	0.83	0.87	356.93	1667	323.0	0.2900

Pn: Rated output
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This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The background is a clean, solid white color.