

Submersible Rewindable Motor

10" WF Premium Stainless Steel

Quality for your borewell :

These motors are heavy duty, rewindable, stainless steel water filled submersible motors which are designed and sized for installation in 10" 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 :

- 10" 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).
- 10" NEMA coupling flange.
- Pressure compensation diaphragm.



Specifications :

- Ratings: Three phase - 55 to 185 kW
- Supply voltages (Tolerance $\pm 10\%$):
50 Hz, 3 phase, 380 V, 400 V, 415 V
60 Hz, 3 phase, 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:
55 to 135 kW - 20
150 to 220 kW - 15
- Water pH: 6,5 - 8
- Minimum cooling flow along the motor:
55 to 93 kW - 30 cm/sec
110 to 220 kW - 50 cm/sec
- Motor protection: Select thermal overload protection with trip time < 10 sec. at 5 x In
- Maximum submerged depth: 200 metres.

On Request :

- Built-in PT 100 temperature sensor.
- Special voltages.
- Double cable for Star - Delta operation.
- PE2/PA winding insulation.

Cable Data :

HP	Type of start	Cable x Leads x Size (mm ²)	Length [m]	D [mm]	
100.0 to 200.0	DOL	3 x 1 x 35 + 1 x 1 x 16	5	14 + 7	
	S/D	6 x 1 x 35 + 1 x 1 x 16		14 + 7	
225.0 to 300.0	DOL	3 x 1 x 70 + 1 x 1 x 50	5	19 + 12	
	S/D	6 x 1 x 35 + 1 x 1 x 16		19 + 12	



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Motors that are top class in Performance & Reliability

Cable

Cable safe for drinking water.

Earth cable

Outside earth cable provided.

Sensor

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

Windings

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

Efficiency

High efficiency provides energy saving.

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.

Shaft Extension

Stainless steel shaft extension

Shaft seal

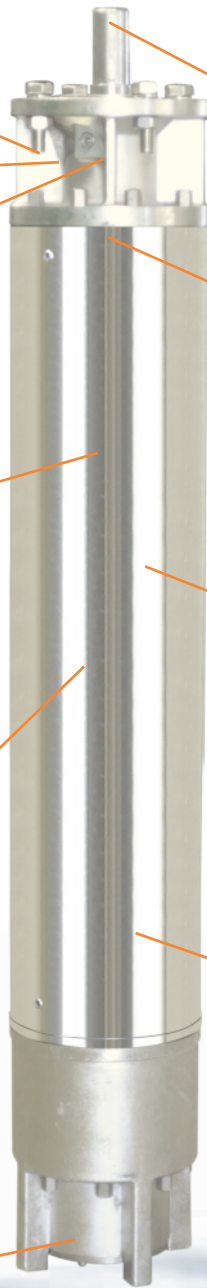
Mecahnical seal sic / sic is standard.

Easy Maintenance

Designed for easy disassembly & repair

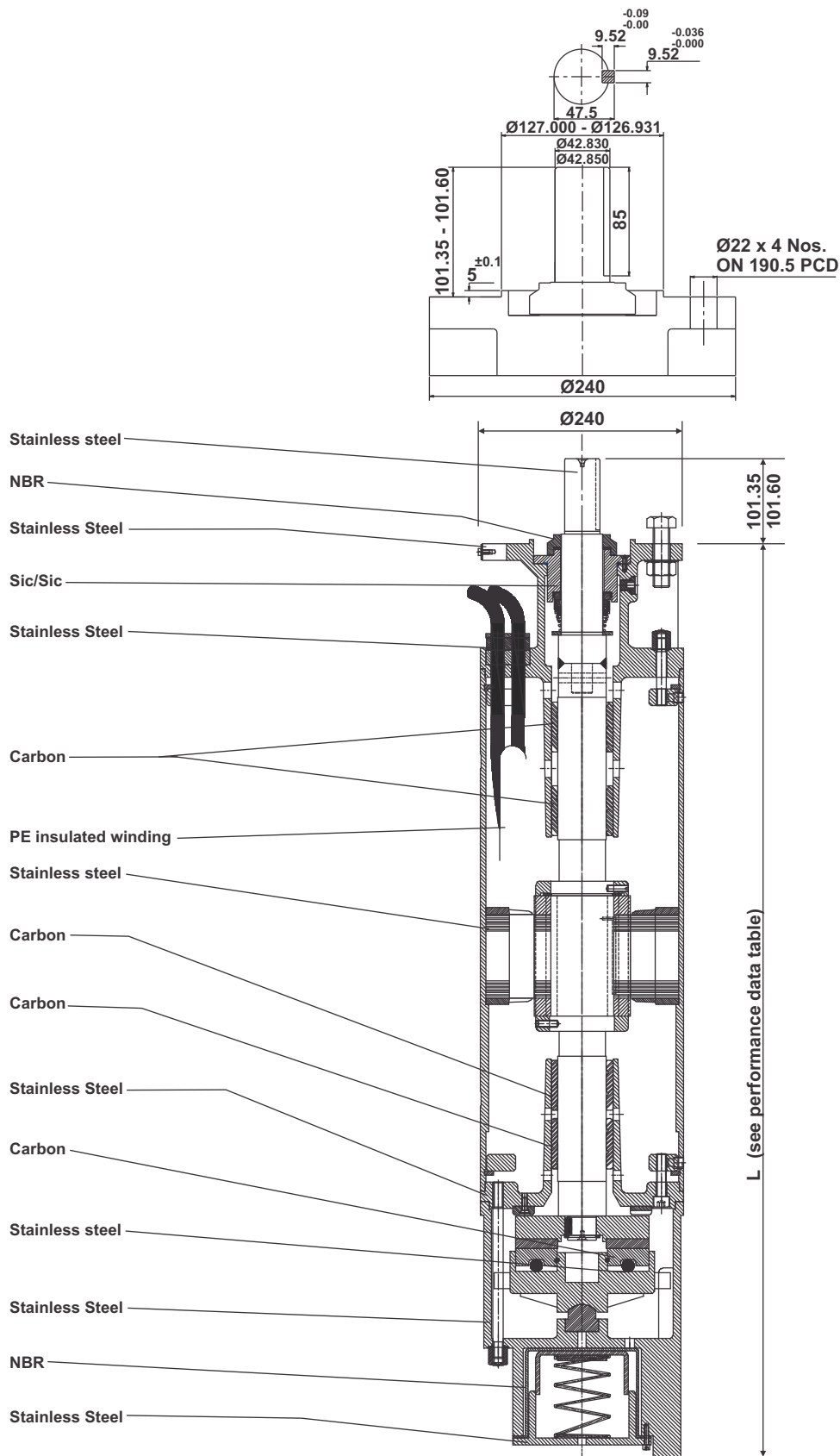
Contamination

Water filled motor design prevents water contamination.



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Shaft :
Cylindrical shaft with key.

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10" 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						50%	75%	100%	50%	75%	100%				
L15100-DSS	75.00	100.0	60000	380	163.4	4.63	2890	78.9	82.1	84.0	0.69	0.79	0.83	247.96	1517	409.0	0.329
				400	152.8	4.69	2900	79.9	84.1	85.0	0.70	0.80	0.84	247.11			
				415	150.5	4.71	2900	79.9	83.1	84.0	0.69	0.80	0.84	247.11			
L15125-DSS	93.00	125.0	60000	380	195.6	4.74	2890	79.4	83.7	85.0	0.70	0.81	0.85	307.47	1617	430.0	0.348
				400	187.5	4.80	2900	80.4	83.9	85.0	0.70	0.80	0.84	306.41			
				415	185.5	4.83	2900	80.5	84.1	85.0	0.69	0.78	0.83	306.41			
L15150-DSS	110.0	150.0	60000	380	228.0	4.75	2900	79.5	84.9	86.0	0.69	0.81	0.85	362.42	1697	447.0	0.362
				400	223.0	4.80	2910	80.5	85.9	86.0	0.69	0.80	0.83	361.20			
				415	221.0	4.83	2910	80.7	85.1	86.0	0.70	0.80	0.82	361.20			
L15180-DSS	135.0	180.0	60000	380	266.0	4.80	2900	79.7	85.1	87.0	0.69	0.83	0.87	444.80	1867	484.0	0.395
				400	255.8	4.90	2910	80.9	87.1	88.0	0.70	0.82	0.86	443.27			
				415	254.5	4.95	2910	80.7	85.9	87.0	0.70	0.81	0.84	443.27			
L15200-DSS	150.0	200.0	60000	380	303.0	4.80	2900	79.7	84.7	86.0	0.69	0.84	0.88	494.22	1997	512.0	0.419
				400	293.5	4.90	2910	80.9	86.1	87.0	0.71	0.81	0.85	492.52			
				415	292.0	4.94	2920	80.9	84.9	87.0	0.70	0.81	0.84	490.83			
L15225-DSS	165.0	225.0	60000	380	335.0	4.89	2900	79.9	84.1	86.0	0.70	0.83	0.87	543.64	2047	523.0	0.428
				400	325.0	4.99	2910	81.4	85.6	87.0	0.71	0.81	0.85	541.77			
				415	321.0	5.04	2910	81.1	85.8	87.0	0.71	0.81	0.85	541.77			
L15250-DSS	185.0	250.0	60000	380	376.0	4.89	2900	80.1	85.3	87.0	0.70	0.82	0.86	609.53	2097	534.0	0.437
				400	366.0	4.99	2910	81.7	86.9	88.0	0.71	0.81	0.85	607.44			
				415	362.0	5.04	2910	81.4	84.6	86.0	0.71	0.82	0.85	607.44			
L15300-DSS	220.0	300.0	60000	380	450.0	4.90	2900	80.0	85.2	87.0	0.74	0.83	0.86	724.85	2197	55.06	0.456
				400	438.0	5.00	2910	81.1	85.9	87.0	0.69	0.79	0.84	722.36			
				415	435.0	5.05	2910	81.4	84.6	86.0	0.68	0.77	0.84	722.36			

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

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10" 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%				
L16100-DSS	75.00	100.0	60000	380	183.6	5.94	3500	83.1	85.1	86.0	0.69	0.77	0.83	205.00	1517	409.0	0.329
				460	149.8	5.85	3480	83.1	84.1	85.0	0.75	0.82	0.85	206.00			
L16125-DSS	93.00	125.0	60000	380	230.3	5.19	3510	81.1	83.1	85.0	0.68	0.77	0.83	253.10	1617	430.0	0.348
				460	183.6	4.67	3500	83.1	84.1	85.0	0.75	0.82	0.86	253.80			
L16150-DSS	110.0	150.0	60000	380	274.0	5.20	3510	84.1	86.1	86.0	0.69	0.78	0.84	299.40	1697	447.0	0.362
				460	224.5	5.16	3500	84.1	86.1	86.0	0.70	0.79	0.84	300.20			
L16180-DSS	135.0	180.0	60000	380	313.0	5.45	3510	84.1	86.1	86.0	0.72	0.81	0.86	367.50	1867	484.0	0.395
				460	253.5	5.15	3500	85.1	87.1	87.0	0.76	0.83	0.87	368.50			
L16200-DSS	150.0	200.0	60000	380	353.0	5.59	3510	84.1	87.1	87.0	0.74	0.82	0.87	408.30	1997	512.0	0.419
				460	293.5	5.30	3500	85.1	87.1	87.0	0.76	0.83	0.87	409.50			
L16225-DSS	165.0	225.0	60000	380	393.0	5.83	3510	84.1	86.1	86.0	0.74	0.81	0.85	449.10	2047	523.0	0.428
				460	333.0	5.38	3500	85.1	86.1	87.0	0.72	0.80	0.85	450.40			
L16250-DSS	185.0	250.0	60000	380	463.0	5.77	3510	84.1	87.1	87.0	0.65	0.76	0.83	503.60	2097	534.0	0.437
				460	376.0	5.64	3500	85.1	87.1	87.0	0.69	0.78	0.84	505.00			
L16300-DSS	220.0	300.0	60000	380	554.0	5.76	3510	83.0	84.8	86.0	0.66	0.79	0.83	598.88	2197	556.0	0.456
				460	450.0	5.65	3500	83.4	85.1	86.0	0.69	0.78	0.84	600.59			

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