NIAGARA©
PUMPS THE SMART CHOICE

10"

WF “T” SS Series

10" Rewindable Water-Filled Submersible Motor

**“Experience the Difference,
The Ultimate Choice for Your Water Needs!”**

50/60Hz

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10" WF "T" SS Series

NIAGARA 10" WF "T" SS Submersible Motor is specially designed with the latest manufacturing techniques. Years of experience, superior design and better manufacturing have resulted in the development of this range of motors, which are efficient and reliable in operation. Strict quality assurance during the total process assures trouble-free and reliability in operation requiring minimum maintenance.



Applications

Built for coupling with submersible multistage high and low load thrust 10" pumps for clean water deep well.

Technical Features

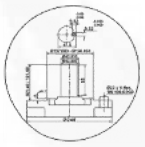
- 10" WF "T" SS Submersible Motor are water lubricated and rewindable.
- Upper/Lower bracket and Motor base are Stainless Steel.
- Motor shaft is of AISI 420 grade or above.
- Stator shell is of AISI 304 grade.
- Flange and shaft protrusion as per NEMA standard.
- Water lubricated radial and thrust bearing.
- Degree of protection: IP 68. Tropicalized design (lower winding temperature).
- Mounting: vertical/horizontal.
- Motor cable length: 3.5 meter / 3 core.

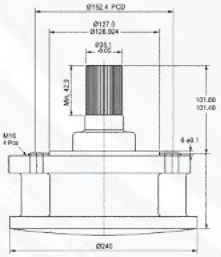
  Easily rewindable (wet wound) induction motor with PE insulated windings Class B.

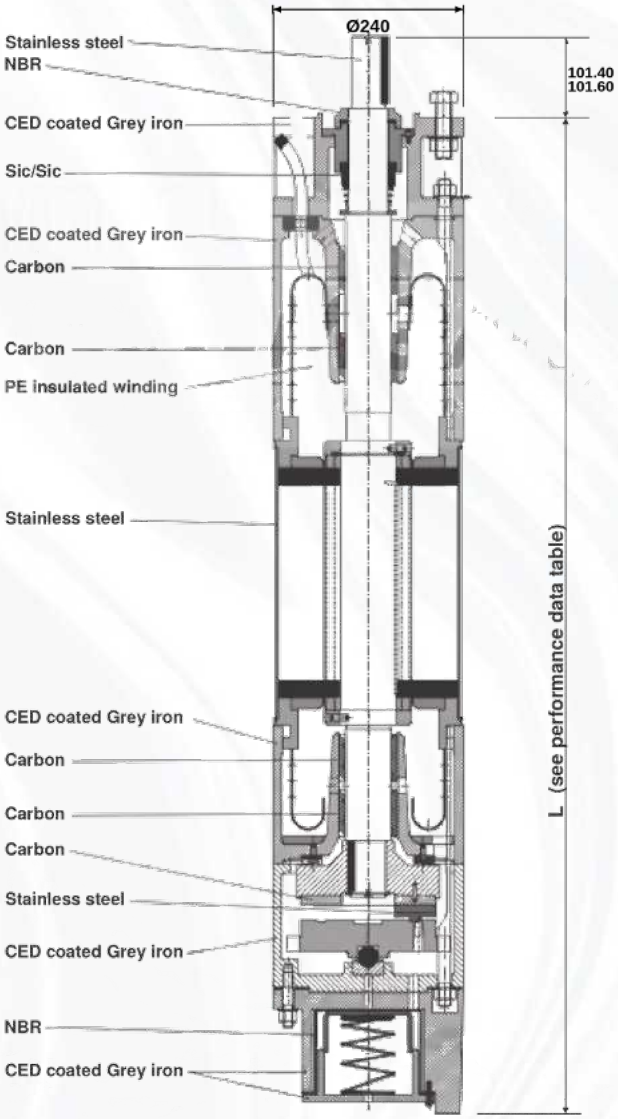
Operating Limits

- Maximum allowable rating voltage fluctuation +6% / -10%.
- Range: 55 to 185 kW.
- Maximum liquid temperature: 50° C.
- Rotation: Clockwise when viewed from motor end.
- Water pH: 6.5- 8.
- Maximum submerged depth: 200 meters.

10" WF "T" SS MOTOR — CONSTRUCTION & DIMENSIONS







Shaft :
Cylindrical shaft with key.

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10" WF "T" SS Series

Submersible Rewindable Motor

10" Submersible Rewindable Motor Performance Data 50 Hz

10" WFT SS

10 Inch Water Filled Motor

MOTOR TYPE	PN		Thrust Load (N)	Un (V)	IN	IA	nN min-1	η (Eff.) (%) AT % LOAD			COS Ø (P.F) AT % LOAD			TN (Nm)	L (mm)	Gross weight(kg)
	HP	kW			(Amps)			50	75	100	50	75	100			
10" WFT SS 75	75.0	55.00	60000	380	122.9	4.52	2890	76.8	81.2	82.5	0.67	0.76	0.82	181.8	1495	309.0
				400	115.1	4.55	2900	79.0	82.2	83.1	0.69	0.78	0.82	181.2		
				415	113.0	4.62	2900	79.0	82.1	83.1	0.68	0.79	0.83	181.2		
10" WFT SS 90	90.0	66.00	60000	380	146.7	4.55	2890	78.3	81.6	83.1	0.68	0.77	0.82	218.2	1565	330.0
				400	136.8	4.65	2900	79.8	83.0	83.9	0.69	0.79	0.82	217.4		
				415	113.5	4.72	2900	79.6	82.8	89.9	0.68	0.79	0.83	217.4		
10" WFT SS 100	100.0	75.00	60000	380	163.2	4.62	2890	79.8	82.2	84.1	0.68	0.79	0.83	248.0	1665	361.0
				400	152.5	4.66	2900	79.8	84.2	85.1	0.69	0.79	0.83	247.1		
				415	150.3	4.70	2900	79.8	83.2	84.1	0.69	0.80	0.84	247.1		
10" WFT SS 125	125.0	93.00	60000	380	195.5	4.72	2890	79.3	83.6	84.9	0.70	0.80	0.84	307.5	1715	378.0
				400	187.2	4.76	2900	80.5	83.8	85.1	0.69	0.80	0.84	306.4		
				415	185.3	4.80	2900	80.5	84.2	85.1	0.69	0.79	0.83	306.4		
10" WFT SS 150	150.0	110.0	60000	380	227.6	4.74	2900	79.4	84.7	85.9	0.68	0.80	0.84	362.4	1765	397.0
				400	222.8	4.78	2910	80.5	85.7	86.1	0.69	0.80	0.83	361.2		
				415	220.8	4.81	2910	80.6	85.2	86.1	0.70	0.80	0.82	361.2		
10" WFT SS 180	180.0	135.0	60000	380	265.9	4.82	2900	79.8	85.2	87.1	0.68	0.82	0.87	444.7	1825	419.0
				400	255.5	4.88	2910	80.9	87.2	88.1	0.69	0.82	0.85	443.2		
				415	254.3	4.93	2910	80.6	85.8	87.1	0.70	0.81	0.84	443.2		
10" WFT SS 200	200.0	150.0	60000	380	302.9	4.82	2900	79.6	84.6	86.1	0.69	0.83	0.87	494.2	1865	433.0
				400	293.1	4.88	2910	80.8	86.2	87.1	0.70	0.81	0.85	492.5		
				415	291.8	4.93	2920	80.8	85.0	87.1	0.70	0.81	0.84	490.8		
10" WFT SS 225	225.0	165.0	60000	380	334.7	4.88	2900	79.8	84.2	86.1	0.70	0.82	0.86	543.6	1915	451.0
				400	324.8	4.98	2910	81.5	85.6	87.1	0.70	0.81	0.85	541.8		
				415	320.8	5.02	2910	81.2	85.9	87.1	0.71	0.81	0.85	541.8		
10" WFT SS 250	250.0	185.0	60000	380	375.7	4.88	2900	80.2	85.4	87.1	0.70	0.82	0.86	609.5	1965	472.0
				400	365.8	4.98	2910	81.6	86.8	88.1	0.70	0.81	0.85	607.4		
				415	361.8	5.02	2910	81.5	84.8	86.1	0.71	0.81	0.85	607.4		

Submersible Rewindable Motor

10" WFT SS

10" Submersible Rewindable Motor Performance Data 60 Hz

10 Inch Water Filled Motor

MOTOR TYPE	PN		Thrust Load (N)	Un (V)	IN	IA	nN min-1	η (Eff.) (%) AT % LOAD			COS Ø (P.F) AT % LOAD			TN (Nm)	L (mm)	Gross weight(kg)
	HP	kW			(Amps)			50	75	100	50	75	100			
10" WFT SS 75	75.00	55.00	60000	380	136.1	5.70	3500	81.0	82.0	85.1	0.68	0.77	0.85	150.20	1495	309.0
				460	110.0	5.70	3480	82.0	84.0	85.1	0.75	0.80	0.86	150.80		
10" WFT SS 90	90.00	66.00	60000	380	163.4	5.85	3500	81.0	83.0	85.1	0.69	0.78	0.85	180.20	1565	330.0
				460	133.3	5.88	3480	83.0	84.0	85.1	0.75	0.83	0.86	181.00		
10" WFT SS 100	100.0	75.00	60000	380	183.5	5.95	3500	83.0	85.0	86.1	0.70	0.78	0.84	205.00	1665	361.0
				460	149.6	5.85	3480	83.0	84.0	85.1	0.76	0.82	0.86	206.00		
10" WFT SS 125	125.0	93.00	60000	380	230.4	5.20	3510	81.0	83.0	85.1	0.69	0.78	0.84	253.00	1715	378.0
				460	183.8	4.68	3500	83.0	84.0	85.1	0.75	0.82	0.86	253.60		
10" WFT SS 150	150.0	110.0	60000	380	274.1	5.20	3510	84.0	86.0	86.1	0.70	0.78	0.85	299.20	1765	397.0
				460	224.6	5.16	3500	84.0	86.0	86.1	0.70	0.80	0.85	300.10		
10" WFT SS 180	180.0	135.0	60000	380	313.2	5.45	3510	84.0	86.0	86.1	0.73	0.81	0.86	367.30	1825	419.0
				460	253.8	5.15	3500	85.0	87.0	87.1	0.75	0.82	0.87	368.40		
10" WFT SS 200	200.0	150.0	60000	380	353.2	5.60	3510	84.0	87.0	87.1	0.75	0.82	0.87	408.20	1865	433.0
				460	293.6	5.30	3500	85.0	87.0	87.1	0.76	0.83	0.87	409.30		
10" WFT SS 225	225.0	165.0	60000	380	393.1	5.85	3510	84.0	86.0	86.1	0.75	0.82	0.85	449.20	1915	451.0
				460	333.2	5.40	3500	85.0	86.0	87.1	0.73	0.81	0.86	450.50		
10" WFT SS 250	250.0	185.0	60000	380	463.1	5.78	3510	84.0	87.0	87.1	0.66	0.77	0.83	503.50	1965	472.0
				460	376.2	5.65	3500	85.0	87.0	87.1	0.70	0.78	0.84	505.00		

PN : Rated output
Un : Rated voltage
IN : Rated current
IA : Starting current
nN : Rated speed
η : Motor Efficiency
cos@ : Power factor

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