NIAGARA©
PUMPS THE SMART CHOICE

8"

WF "T" CI Series

8" Rewindable Water-Filled Submersible Motor

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

50/60Hz

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8" WF "T" CI Series

NIAGARA 8" WF "T" CI 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 8" pumps for clean water deep well.

Technical Features

- 8" WF "T" CI Submersible Motor are Water Lubricated and rewindable.
- Upper/Lower bracket and Motor base are cast iron.
- 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.
- Mounting: vertical/horizontal.
- Dynamically balanced rotor ensure smooth running.
- Solid copper bars inserted in to our piece billet rotor offer great rigidity.
- Motor cable length: 3.5 meter / 3 core.
- Easily rewindable (wet wound) induction motor with PE insulated windings Class B.

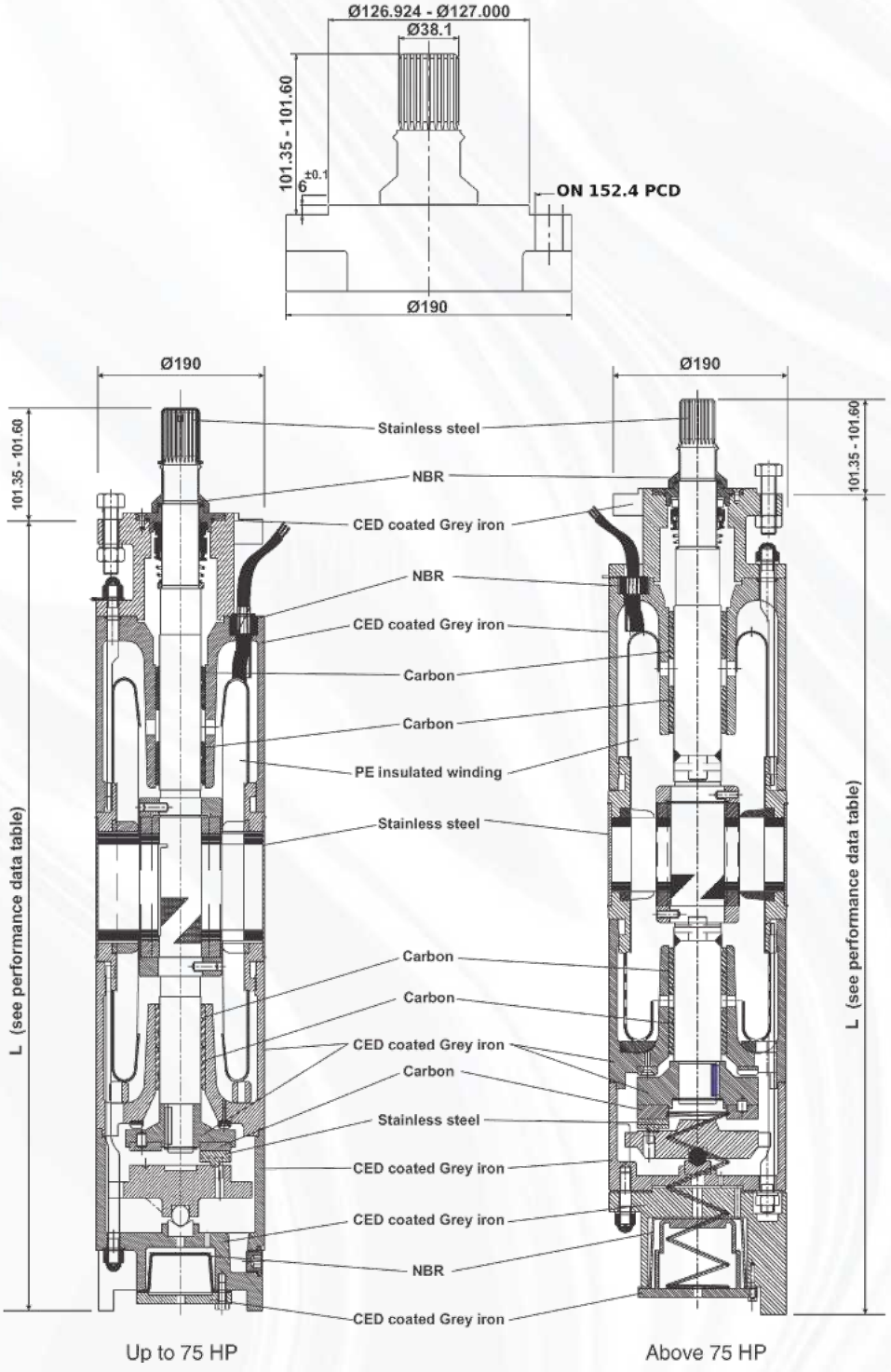
Operating Limits

- Maximum allowable rating voltage fluctuation +6% / -10%.
- Range: 30 kW to 110 kW (40 to 150 HP).
- Speed: 2900 RPM 50 Hz / 3500 RPM 60 Hz.
- Maximum liquid temperature: 50° C.
- Rotation: Clockwise when viewed from motor end.

Versions

- Three phase 30 kW to 110 kW, 380-400-415 Volts / 50 Hz.
- Three phase 30 kW to 110 kW, 230-380-460 Volts / 60 Hz.

8" WF "T" CI MOTOR — CONSTRUCTION & DIMENSIONS



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".

DIMENSIONS ARE IN MM

Submersible Rewindable Motor

8" WFT CI

8" Submersible Rewindable Motor Performance Data 50 Hz

8 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			
8" WFT CI 40	40.0	30.00	45000	380	63.10	4.50	2895	80.1	83.5	84.3	0.71	0.82	0.89	98.99	1030	175.0
				400	60.20	4.60	2905	81.2	84.2	84.9	0.70	0.83	0.88	98.90		
				415	58.10	4.65	2905	80.9	84.1	84.8	0.69	0.84	0.88	98.90		
8" WFT CI 50	50.0	37.00	45000	380	77.90	4.71	2895	80.0	83.0	84.0	0.74	0.85	0.87	121.90	1120	190.0
				400	75.30	4.82	2905	81.2	84.0	85.0	0.72	0.83	0.86	121.60		
				415	74.40	4.86	2905	80.6	83.6	84.5	0.70	0.80	0.85	121.60		
8" WFT CI 60	60.0	45.00	45000	380	91.90	4.71	2895	80.4	83.2	85.1	0.72	0.86	0.88	148.50	1220	211.0
				400	90.10	4.82	2905	81.6	84.0	85.8	0.73	0.81	0.87	148.10		
				415	89.30	4.90	2905	81.4	83.8	85.6	0.71	0.80	0.84	148.10		
8" WFT CI 75	75.0	55.00	45000	380	114.00	4.90	2895	80.6	84.2	85.8	0.73	0.83	0.87	181.81	1270	224.0
				400	110.20	5.10	2910	82.1	85.3	86.5	0.72	0.82	0.86	180.60		
				415	109.00	5.20	2910	81.7	84.8	86.1	0.70	0.81	0.85	180.60		
8" WFT CI 90	90.0	66.00	45000	380	134.90	4.90	2895	80.8	85.4	86.5	0.74	0.85	0.89	217.90	1420	246.0
				400	130.90	5.10	2910	82.0	85.8	87.0	0.73	0.84	0.87	216.40		
				415	129.10	5.05	2910	81.5	85.4	86.7	0.70	0.82	0.85	216.40		
8" WFT CI 100	100.0	75.00	45000	380	150.80	4.90	2895	80.9	84.8	86.1	0.74	0.86	0.88	248.10	1470	258.0
				400	147.40	5.00	2910	82.0	85.7	86.9	0.72	0.84	0.87	246.32		
				415	146.10	5.10	2910	81.8	85.5	86.7	0.70	0.80	0.85	246.32		
8" WFT CI 125	125.0	93.00	45000	380	187.20	4.90	2900	80.6	84.6	86.6	0.74	0.84	0.87	306.20	1610	286.0
				400	182.10	5.00	2910	81.6	86.5	87.7	0.71	0.80	0.86	305.30		
				415	181.00	5.05	2920	81.7	86.4	87.1	0.70	0.79	0.85	304.25		
8" WFT CI 150	150.0	110.0	45000	380	230.80	4.95	2895	79.1	83.2	85.1	0.71	0.80	0.83	362.9	1740	314.0
				400	224.60	5.05	2905	79.4	84.2	85.4	0.70	0.79	0.81	361.8		
				415	220.50	5.10	2905	80.1	84.6	86.1	0.69	0.78	0.80	361.8		

Submersible Rewindable Motor

8" Submersible Rewindable Motor Performance Data 60 Hz

8" WFT CI

8 Inch Water Filled Motor

MOTOR TYPE	PN		Thrust Load (N)	Un (VOlts)	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			
8" WFT CI 40	40.00	30.00	45000	460	57.6	5.78	3480	82.0	84.2	85.1	0.77	0.82	0.88	82.5	1030	175.0
8" WFT CI 50	50.00	37.00	45000	230	150.2	5.78	3480	82.0	84.1	85.1	0.76	0.82	0.85	102.20	1120	190.0
				380	89.5	5.76	3500	82.6	84.6	85.5	0.76	0.83	0.86	101.40		
				460	73.1	5.76	3480	82.2	84.5	84.9	0.77	0.84	0.87	102.10		
8" WFT CI 60	60.00	45.00	45000	230	180.3	5.76	3500	83.2	84.8	86.1	0.75	0.81	0.84	123.20	1220	211.0
				380	108.1	5.81	3510	83.8	85.6	86.0	0.75	0.82	0.85	122.90		
				460	86.8	5.81	3500	83.2	85.4	86.2	0.76	0.82	0.86	123.20		
8" WFT CI 75	75.00	55.00	45000	230	217.7	5.75	3500	83.1	85.2	87.1	0.74	0.81	0.84	150.70	1270	224.0
				380	130.6	5.81	3510	84.1	86.2	87.1	0.75	0.82	0.85	150.20		
				460	105.2	5.81	3500	83.6	86.1	87.0	0.75	0.82	0.86	150.70		
8" WFT CI 90	90.00	66.00	45000	230	255.2	5.76	3500	83.2	86.2	88.1	0.75	0.82	0.86	180.70	1420	246.0
				380	153.1	6.01	3510	84.8	87.1	88.0	0.75	0.82	0.86	180.20		
				460	125.2	6.01	3500	84.0	87.0	88.0	0.76	0.83	0.87	180.70		
8" WFT CI 100	100.0	75.00	45000	230	286.5	5.78	3500	83.4	86.0	88.1	0.75	0.83	0.86	205.20	1470	258.0
				380	170.2	6.02	3510	85.0	87.2	88.1	0.76	0.84	0.87	204.60		
				460	140.3	6.02	3500	84.1	87.0	88.0	0.76	0.83	0.88	205.20		
8" WFT CI 125	125.0	93.00	45000	230	362.8	5.78	3500	83.6	85.8	88.1	0.75	0.82	0.85	254.30	1610	286.0
				380	216.5	6.02	3510	84.6	87.1	88.4	0.76	0.81	0.85	253.80		
				460	175.2	6.02	3500	84.6	86.9	88.3	0.76	0.82	0.86	254.30		
8" WFT CI 150	150.0	110.0	45000	380	263.4	6.02	3500	82.3	84.6	86.1	0.75	0.81	0.86	300.60	1740	314.0
				460	214.3	6.02	3480	82.4	85.0	86.2	0.76	0.82	0.86	302.70		

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