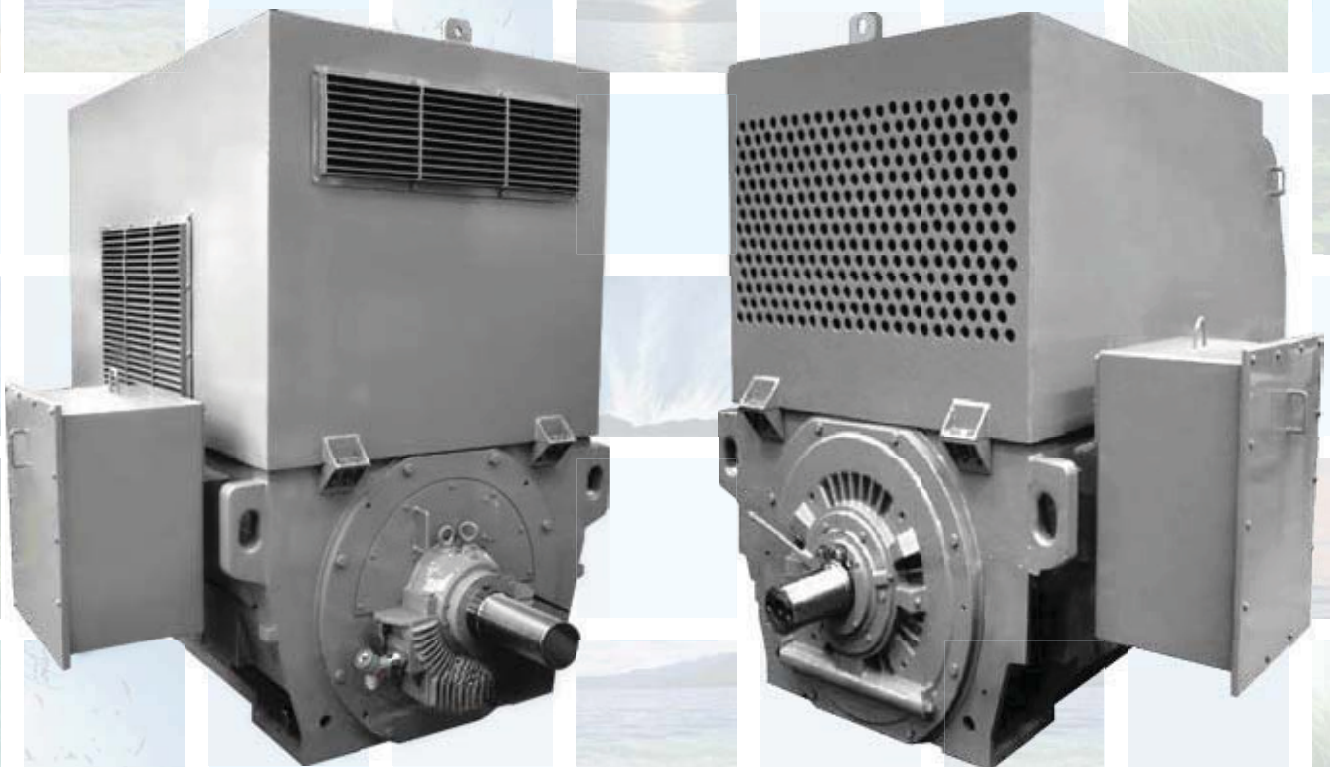


# Squirrel Cage 3-Phase Induction Motor

## NEMA STANDARD



## TW21TN SERIES

Horizontal Foot Mounted

3-Phase / 60Hz / 2300V, 4160V, 6600V

Frame Size N4014 ~ N5620 (NEMA / IMPERIAL)

TEAAC / WPI / WPPII CONSTRUCTION

## STANDARD SPECIFICATIONS

- **Output** : 800HP ~ 7000HP
- **Poles** : 2P ~ 8P
- **Frame size** : N4016 ~ N5620 (NEMA / IMPERIAL)
- **Voltage** : 2300V, 4160V, 6600V
- **Frequency** : 60Hz
- **Enclosure** : Totally Enclosed Air to Air Cooled (TEAAC)  
Weather Protected Type I and Type II
- **Mounting** : Horizontal Foot Mounted
- **Insulation** : Class F
- **Temperature rise** : Class B at S.F. 1.0 / Class F at S.F. 1.15  
(By Resistance Method)
- **Environment** : Ambient Temperature 40°C

## PREMIUM FEATURES

- **Optimized Cast Iron Frame**  
Optimum cast iron design ensures low vibration and noise.
- **Reliable Rotor Construction**  
Compact design and precise balancing provide reliable operation. Improved arrangement of ventilation path inside rotor greatly raises cooling efficiency.
- **Durable Bearing Construction**  
Proper bearing selection and bearing life calculation ensure lasting operation. Grease and oil inlet and discharge pipe assure easy and safe maintenance.
- **Large Size Terminal Box**  
Large size steel plate terminal boxes provides ample space and tough enclosure for cable connection.
- **V.P.I. Stator Winding**  
For medium and high voltage motors, Stator winding with V.P.I. treatment meets class F insulation and gives high resistance to corona.
- **Low Noise Construction**  
Low noise construction is available on request.

## TW21TN SERIES

## TW21TN-T PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)
800	880	N4014	195	1120	1494	80	200	95.0	94.5	93.5	81.0	78.0	70.0
900	880	N4014	219	1250	1494	80	200	95.0	94.5	93.5	81.0	78.0	70.0
1000	1180	N4014	225	1400	1114	80	200	95.5	95.0	94.0	87.0	85.5	80.0
	880	N4014	241	1380	1494	80	200	95.5	95.0	94.0	81.5	78.5	70.5
1250	1180	N4014	282	1750	1114	80	200	95.5	95.0	94.0	87.0	85.5	80.0
	880	N4014	299	1710	1494	80	200	95.5	95.0	94.0	82.0	79.0	71.0
1350	3560	N4014	289	1950	369	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	293	1900	741	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	303	1880	1114	80	200	95.8	95.5	94.5	87.0	85.5	80.0
	880	N4516	316	1810	1494	80	200	95.8	95.5	94.5	83.5	80.5	72.0
1500	3550	N4014	322	2160	412	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	325	2100	823	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	337	2070	1238	80	200	95.8	95.5	94.5	87.0	85.5	80.0
	880	N4516	351	2000	1660	80	200	95.8	95.5	94.5	83.5	80.5	72.0
1750	3550	N4014	375	2530	480	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	379	2450	960	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	388	2400	1444	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	880	N4516	406	2350	1937	80	200	96.0	96.0	95.0	84.0	81.0	73.0
2000	3550	N4014	429	2900	549	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	433	2800	1097	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	443	2750	1651	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	880	N4516	464	2680	2214	80	200	96.0	96.0	95.0	84.0	81.0	73.0
2250	3550	N4014	482	3250	617	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	488	3150	1235	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	499	3100	1857	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	885	N5018	514	2980	2476	80	200	96.5	96.0	95.0	85.0	82.0	75.0
2500	3550	N4516	530	3550	686	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	539	3460	1372	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	554	3420	2064	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	885	N5018	571	3300	2751	80	200	96.5	96.0	95.0	85.0	82.0	75.0
2750	3550	N4516	583	3900	755	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	593	3800	1509	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N5018	598	3700	2270	80	200	96.7	96.5	95.5	89.0	87.5	84.0
	885	N5018	628	3600	3027	80	200	96.5	96.0	95.0	85.0	82.0	75.0
3000	3550	N4516	636	4270	823	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	642	4150	1646	80	200	96.7	96.0	95.0	90.5	89.5	86.0
	1180	N5018	652	4030	2476	80	200	96.8	96.5	95.5	89.0	87.5	84.0
	885	N5620	679	3930	3302	70	200	96.8	96.3	95.0	85.5	83.0	76.5
3500	3550	N4516	742	4960	960	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	749	4850	1921	80	200	96.7	96.0	95.0	90.5	89.5	86.0
	1180	N5018	761	4730	2889	80	200	96.8	96.5	95.5	89.0	88.0	85.0
	885	N5620	792	4590	3852	70	200	96.8	96.3	95.0	85.5	83.0	76.5
3700	3555	N5018	776	5200	1014	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	787	5100	2030	80	200	96.8	96.5	95.5	91.0	90.0	87.0
	1180	N5018	804	5000	3054	80	200	96.8	96.5	95.5	89.0	87.5	84.0
	885	N5620	837	4850	4072	70	200	96.8	96.3	95.0	85.5	83.0	76.5
4000	3555	N5018	839	5650	1096	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	850	5530	2195	80	200	96.8	96.5	95.5	91.0	90.0	87.0
	1180	N5620	860	5360	3302	70	200	96.8	96.5	95.5	90.0	88.5	85.0
4500	3555	N5018	944	6300	1233	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	957	6200	2469	80	200	96.8	96.5	95.5	91.0	89.5	86.5
	1180	N5620	965	6000	3714	70	200	97.0	96.5	95.5	90.0	88.5	85.0
5000	3560	N5620	1043	6900	1368	70	200	96.5	96.0	95.0	93.0	92.5	90.5
	1780	N5620	1053	6800	2736	70	200	97.2	97.0	96.0	91.5	90.5	87.5
6000	3560	N5620	1252	8200	1642	70	200	96.5	96.0	95.0	93.0	92.5	90.5
	1780	N5620	1263	8100	3283	70	200	97.2	97.0	96.0	91.5	90.5	87.5

Note: (1) Above data are typical values and for reference only.

(2) Performance test per ANSI/IEEE standard 112 method F1 with reduced voltage starting characteristics.

**ALL DATA ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

## TW21TN-T PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)
800	880	N4014	108	620	885	80	200	95.0	94.5	93.5	81.0	78.0	70.0
900	880	N4014	121	700	996	80	200	95.0	94.5	93.5	81.0	78.0	70.0
1000	1180	N4014	125	780	825	80	200	95.5	95.0	94.0	87.0	85.5	80.0
	880	N4014	133	770	1107	80	200	95.5	95.0	94.0	81.5	78.5	70.5
1250	1180	N4014	156	975	1032	80	200	95.5	95.0	94.0	87.0	85.5	80.0
	880	N4014	165	960	1384	80	200	95.5	95.0	94.0	82.0	79.0	71.0
1350	3560	N4014	160	1090	342	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	162	1050	741	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	168	1040	1114	80	200	95.8	95.5	94.5	87.0	85.5	80.0
	880	N4516	175	1020	1494	80	200	95.8	95.5	94.5	83.5	80.5	72.0
1500	3550	N4014	178	1210	412	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	180	1170	823	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	186	1160	1238	80	200	95.8	95.5	94.5	87.0	85.5	80.0
	880	N4516	194	1130	1660	80	200	95.8	95.5	94.5	83.5	80.5	72.0
1750	3550	N4014	207	1410	480	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	210	1370	960	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	214	1330	1444	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	880	N4516	225	1300	1937	80	200	96.0	96.0	95.0	84.0	81.0	73.0
2000	3550	N4014	237	1600	549	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	240	1560	1097	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	245	1520	1651	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	880	N4516	257	1490	2214	80	200	96.0	96.0	95.0	84.0	81.0	73.0
2250	3550	N4014	267	1810	617	70	200	96.0	95.5	94.0	91.0	90.5	88.5
	1775	N4014	270	1750	1235	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	276	1710	1857	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	885	N5018	284	1650	2476	80	200	96.5	96.0	95.0	85.0	82.0	75.0
2500	3550	N4516	293	2000	686	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	298	1940	1372	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	306	1900	2064	80	200	96.0	96.0	95.0	88.0	86.5	81.5
	885	N5018	316	1820	2751	80	200	96.5	96.0	95.0	85.0	82.0	75.0
2750	3550	N4516	322	2200	755	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	328	2140	1509	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N5018	331	2070	2270	80	200	96.7	96.5	95.5	89.0	87.5	84.0
	885	N5018	347	2020	3027	80	200	96.5	96.0	95.0	85.0	82.0	75.0
3000	3550	N4516	352	2390	823	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	355	2320	1646	80	200	96.7	96.0	95.0	90.5	89.5	86.0
	1180	N5018	361	2240	2476	80	200	96.8	96.5	95.5	89.0	87.5	84.0
	885	N5620	375	2180	3302	80	200	96.8	96.3	95.0	85.5	83.0	76.5
3500	3550	N4516	410	2790	960	70	200	96.0	95.5	94.5	92.0	91.5	89.5
	1775	N4516	414	2700	1921	80	200	96.7	96.0	95.0	90.5	89.5	86.0
	1180	N5018	421	2620	2889	80	200	96.8	96.5	95.5	89.0	88.0	85.0
	885	N5620	438	2550	3852	80	200	96.8	96.3	95.0	85.5	83.0	76.5
3700	3555	N5018	429	2930	1014	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	435	2840	2030	80	200	96.8	96.5	95.5	91.0	90.0	87.0
	1180	N5018	445	2770	3054	80	200	96.8	96.5	95.5	89.0	87.5	84.0
	885	N5620	463	2700	4072	80	200	96.8	96.3	95.0	85.5	83.0	76.5
4000	3555	N5018	464	3170	1096	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	470	3050	2195	80	200	96.8	96.5	95.5	91.0	90.0	87.0
	1180	N5620	475	2960	3302	80	200	96.8	96.5	95.5	90.0	88.5	85.0
4500	3555	N5018	522	3570	1233	70	200	96.5	96.0	95.0	92.5	92.0	90.0
	1775	N5018	529	3450	2469	80	200	96.8	96.5	95.5	91.0	89.5	86.5
	1180	N5620	534	3330	3714	80	200	97.0	96.5	95.5	90.0	88.5	85.0
5000	3555	N5620	577	3900	1370	70	200	96.5	96.0	95.0	93.0	92.5	90.5
	1775	N5620	582	3800	2744	80	200	97.2	97.0	96.0	91.5	90.5	87.5
6000	3560	N5620	692	4700	1642	70	200	96.5	96.0	95.0	93.0	92.5	90.5
	1780	N5620	698	4550	3283	80	200	97.2	97.0	96.0	91.5	90.5	87.5

Note: (1) Above data are typical values and for reference only.

(2) Performance test per ANSI/IEEE standard 112 method F1 with reduced voltage starting characteristics.

**ALL DATA ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

## TW21TN-T PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)
700	880	N4014	59	345	775	80	200	95.0	94.5	93.0	81.0	76.0	68.0
800	880	N4014	68	395	885	80	200	95.0	94.5	93.0	81.0	76.0	68.0
900	1180	N4014	72	450	743	80	200	95.5	95.0	93.5	85.0	83.0	77.0
	880	N4014	75	440	996	80	200	95.5	95.0	93.5	81.5	76.5	68.5
1000	1180	N4014	80	520	825	80	200	95.5	95.0	93.5	85.0	83.0	77.0
	880	N4014	83	520	1107	80	200	95.5	94.5	93.0	82.0	78.0	70.0
1250	3550	N4014	94	640	343	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	97	630	686	80	200	95.5	94.5	93.0	88.5	87.5	83.5
	1180	N4014	99	620	1032	80	200	95.5	95.0	93.5	86.0	84.0	78.5
	880	N4516	102	595	1384	80	200	95.5	95.0	93.5	83.5	81.5	72.5
1350	3550	N4014	101	690	370	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	104	680	741	80	200	95.5	94.5	93.0	88.5	87.5	83.5
	1180	N4014	107	665	1114	80	200	95.5	95.0	94.0	86.0	84.0	78.5
	880	N4516	110	645	1494	80	200	95.5	95.0	93.5	83.5	81.5	72.5
1500	3550	N4014	113	765	412	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	115	750	823	80	200	95.5	94.5	93.0	89.0	88.0	84.0
	1180	N4516	118	730	1238	80	200	95.5	95.0	94.0	87.0	86.0	82.0
	885	N4516	122	710	1651	80	200	95.5	95.0	93.5	84.0	82.0	73.0
1750	3550	N4014	131	890	480	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1780	N4014	134	875	958	80	200	95.5	94.5	93.0	89.0	88.0	84.0
	1180	N4516	137	855	1444	80	200	95.5	95.0	94.0	87.0	86.0	82.0
	885	N4516	142	830	1926	80	200	95.5	95.0	93.5	84.0	82.0	73.0
2000	3550	N4014	150	1020	549	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1780	N4014	154	1000	1094	80	200	95.5	94.5	93.0	89.0	88.0	84.0
	1180	N4516	156	970	1651	80	200	96.0	95.5	94.5	87.0	86.0	82.0
	885	N5018	160	930	2201	80	200	96.0	95.5	94.5	85.0	83.5	74.5
2250	3550	N4516	166	1120	617	70	200	96.0	95.0	94.5	92.0	91.5	90.0
	1780	N4516	169	1100	1231	80	200	96.0	95.5	94.5	90.5	89.5	86.5
	1185	N4516	176	1090	1849	80	200	96.0	95.5	94.5	87.0	86.0	82.0
	885	N5018	180	1040	2476	80	200	96.0	95.0	94.5	85.0	83.5	74.5
2500	3560	N4516	185	1250	684	70	200	96.0	95.5	94.5	92.0	91.5	90.0
	1780	N4516	186	1200	1368	80	200	96.5	96.0	95.0	91.0	90.0	87.0
	1185	N5018	190	1180	2055	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	885	N5018	199	1160	2751	80	200	96.5	95.5	94.5	85.0	83.5	74.5
2750	3560	N4516	203	1380	752	70	200	96.0	95.0	94.5	92.0	91.5	90.0
	1780	N4516	204	1330	1505	80	200	96.5	96.0	95.0	91.0	90.0	87.0
	1185	N5018	209	1300	2260	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	885	N5620	216	1260	3027	80	200	96.5	96.0	95.0	86.0	84.5	76.0
3000	3560	N4516	222	1500	821	70	200	96.0	95.0	94.5	92.0	91.5	90.0
	1780	N4516	223	1450	1642	80	200	96.5	96.0	95.0	91.0	90.0	87.0
	1185	N5018	228	1420	2466	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	890	N5620	236	1370	3283	80	200	96.5	96.0	95.0	86.0	84.5	76.0
3500	3560	N5018	257	1740	958	70	200	96.5	96.0	94.0	92.0	91.5	90.0
	1785	N5018	259	1680	1910	80	200	96.5	96.0	95.0	91.5	90.5	87.5
	1185	N5018	266	1650	2877	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	890	N5620	275	1600	3830	80	200	96.5	96.0	95.0	86.0	84.5	76.0
3700	3560	N5018	272	1840	1012	70	200	96.5	96.0	94.0	92.0	91.5	90.0
	1785	N5018	273	1770	2019	80	200	96.7	96.5	95.5	91.5	90.5	87.5
	1185	N5620	278	1730	3041	80	200	96.5	96.0	95.0	90.0	89.0	85.0
4000	3560	N5018	294	1980	1094	70	200	96.5	96.0	94.0	92.0	91.5	90.0
	1785	N5018	295	1910	2183	80	200	96.8	96.5	95.5	91.5	90.5	87.5
	1185	N5620	301	1880	3288	80	200	96.5	96.0	95.0	90.0	89.0	85.0
4500	3560	N5620	328	2220	1231	70	200	96.8	96.5	94.5	92.5	92.0	90.5
	1785	N5620	333	2160	2455	80	200	97.0	96.5	95.0	91.0	90.5	88.5
5000	3560	N5620	364	2450	1368	70	200	96.8	96.5	94.5	92.5	92.0	90.5
	1785	N5620	370	2400	2728	80	200	97.0	96.5	95.0	91.0	90.5	88.5

Note: (1) Above data are typical values and for reference only.

(2) Performance test per ANSI/IEEE standard 112 method F1 with reduced voltage starting characteristics.

**ALL DATA ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

## TW21TN-W PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)
1000	880	N4014	242	1400	1937	80	200	95.0	94.5	93.5	81.5	79.0	71.0
1250	880	N4014	302	1750	1937	80	200	95.0	94.5	93.5	81.5	79.0	71.0
1350	1180	N4014	304	1880	1444	80	200	95.5	95.0	94.0	87.0	86.5	83.0
	880	N4014	323	1860	1937	80	200	95.5	95.0	94.0	82.0	79.0	71.0
1500	1180	N4014	338	2090	1444	80	200	95.5	95.0	94.0	87.0	86.5	83.0
	880	N4014	359	2060	1937	80	200	95.5	95.0	94.0	82.0	79.0	72.0
1750	3560	N4014	375	2550	479	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	379	2460	960	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	393	2430	1444	80	200	95.8	95.5	94.5	87.0	86.5	83.0
	880	N4516	412	2390	1937	80	200	95.8	95.5	94.5	83.0	81.0	74.5
2000	3550	N4014	429	2900	549	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	433	2810	1097	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	449	2780	1651	80	200	95.8	95.5	94.5	87.0	86.5	83.0
	880	N4516	471	2730	2214	80	200	95.8	95.5	94.5	83.0	81.0	74.5
2250	3550	N4014	482	3260	617	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	488	3160	1235	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	499	3090	1857	80	200	96.0	96.0	95.0	88.0	87.5	84.0
	880	N4516	529	3060	2490	80	200	96.0	95.5	95.0	83.0	81.0	74.5
2500	3550	N4014	536	3600	686	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	542	3500	1372	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	551	3400	2064	80	200	96.0	96.0	95.0	88.5	88.0	84.5
	880	N4516	588	3400	2767	80	200	96.0	95.5	95.0	83.0	81.0	74.5
2750	3550	N4516	583	3920	755	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	593	3850	1509	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	606	3750	2270	80	200	96.0	96.0	95.0	88.5	88.0	84.5
	885	N5018	635	3650	3027	80	200	96.5	96.0	95.0	84.0	82.0	75.5
3000	3550	N4516	636	4300	823	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	647	4200	1646	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	658	4100	2476	80	200	96.5	96.0	95.0	88.5	88.0	84.5
	885	N5018	693	4000	3302	75	200	96.5	96.0	95.0	84.0	82.0	75.5
3500	3550	N4516	742	5000	960	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	753	4850	1921	80	200	96.7	96.0	95.0	90.0	89.0	87.0
	1180	N5018	761	4700	2889	80	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5018	809	4650	3852	80	200	96.5	96.0	95.0	84.0	82.0	75.5
3750	3550	N4516	795	5400	1029	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	807	5240	2058	75	200	96.7	96.0	95.0	90.0	89.0	87.0
	1180	N5018	815	5050	3095	75	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5620	849	4920	4127	75	200	96.8	96.5	95.5	85.5	83.0	76.5
4000	3555	N4516	844	5700	1096	70	200	96.5	96.0	95.0	92.0	91.5	90.5
	1775	N4516	860	5550	2195	75	200	96.8	96.5	95.5	90.0	89.0	87.0
	1180	N5018	869	5350	3302	75	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5620	905	5200	4402	75	200	96.8	96.5	95.5	85.5	83.0	76.5
4500	3555	N5018	944	6400	1233	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	957	6200	2469	70	200	96.8	96.5	95.5	91.0	90.0	89.0
	1180	N5018	978	6050	3714	70	200	96.8	96.5	95.5	89.0	88.5	85.0
5000	3555	N5018	1049	7100	1370	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	1063	6850	2744	70	200	96.8	96.5	95.5	91.0	90.0	89.0
	1180	N5620	1073	6600	4127	70	200	97.0	96.5	96.0	90.0	89.5	86.0
6000	3555	N5018	1259	8500	1644	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	1273	8200	3292	70	200	97.0	96.5	96.0	91.0	90.0	89.0
	1180	N5620	1287	7900	4953	70	200	97.0	96.5	96.0	90.0	89.5	86.0
7000	3560	N5620	1453	9500	1915	60	200	97.0	96.5	95.5	93.0	92.5	91.5
	1780	N5620	1469	9200	3830	70	200	97.0	97.0	96.0	92.0	91.0	90.0
7500	3560	N5620	1557	9900	2052	60	200	97.0	96.5	95.5	93.0	92.5	91.5
	1780	N5620	1571	9800	4104	70	200	97.2	97.0	96.0	92.0	91.0	90.0

Note: (1) Above data are typical values and for reference only.

(2) For motor Performance test per ANSI/IEEE standard 112 method F1 with reduced voltage starting characteristics.

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## TW21TN-W PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3 / 4 LOAD (%)	1 / 2 LOAD (%)	FULL LOAD (%)	3 / 4 LOAD (%)	1 / 2 LOAD (%)
1000	880	N4014	134	770	1937	80	200	95.0	94.5	93.5	81.5	79.0	71.0
1250	880	N4014	167	960	1937	80	200	95.0	94.5	93.5	81.5	79.0	71.0
1350	1180	N4014	168	1030	1444	80	200	95.5	95.0	94.0	87.0	86.5	83.0
	880	N4014	178	1020	1937	80	200	95.5	95.0	94.0	82.0	79.0	71.0
1500	1180	N4014	187	1150	1444	80	200	95.5	95.0	94.0	87.0	86.5	83.0
	880	N4014	198	1130	1937	80	200	95.5	95.0	94.0	82.0	79.0	72.0
1750	3560	N4014	207	1400	479	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	210	1360	960	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	217	1340	1444	80	200	95.8	95.5	94.5	87.0	86.5	83.0
	880	N4516	228	1300	1937	80	200	95.8	95.5	94.5	83.0	81.0	74.5
2000	3550	N4014	237	1600	549	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	240	1550	1097	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4014	248	1530	1651	80	200	95.8	95.5	94.5	87.0	86.5	83.0
	880	N4516	260	1500	2214	80	200	95.8	95.5	94.5	83.0	81.0	74.5
2250	3550	N4014	267	1800	617	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	270	1750	1235	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	276	1710	1857	80	200	96.0	96.0	95.0	88.0	87.5	84.0
	880	N4516	292	1680	2490	80	200	96.0	95.5	95.0	83.0	81.0	74.5
2500	3550	N4014	296	2000	686	70	200	96.0	95.5	94.0	91.0	90.5	89.5
	1775	N4014	300	1930	1372	80	200	96.0	95.5	94.5	90.0	89.0	85.5
	1180	N4516	305	1890	2064	80	200	96.0	96.0	95.0	88.5	88.0	84.5
	880	N4516	325	1860	2767	80	200	96.0	95.5	95.0	83.0	81.0	74.5
2750	3550	N4516	322	2170	755	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	328	2120	1509	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	335	2070	2270	80	200	96.0	96.0	95.0	88.5	88.0	84.5
	885	N5018	351	2020	3027	80	200	96.5	96.0	95.0	84.0	82.0	75.5
3000	3550	N4516	352	2360	823	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	358	2320	1646	80	200	96.0	95.5	94.5	90.5	89.5	86.0
	1180	N4516	364	2250	2476	80	200	96.5	96.0	95.0	88.5	88.0	84.5
	885	N5018	383	2200	3302	75	200	96.5	96.0	95.0	84.0	82.0	75.5
3500	3550	N4516	410	2750	960	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	416	2680	1921	80	200	96.7	96.0	95.0	90.0	89.0	87.0
	1180	N5018	421	2600	2889	80	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5018	447	2550	3852	80	200	96.5	96.0	95.0	84.0	82.0	75.5
3750	3550	N4516	440	2950	1029	70	200	96.0	95.5	94.5	92.0	91.5	90.5
	1775	N4516	446	2860	2058	75	200	96.7	96.0	95.0	90.0	89.0	87.0
	1180	N5018	451	2770	3095	75	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5620	469	2690	4127	75	200	96.8	96.5	95.5	85.5	83.0	76.5
4000	3555	N4516	466	3150	1096	70	200	96.5	96.0	95.0	92.0	91.5	90.5
	1775	N4516	475	3050	2195	75	200	96.8	96.5	95.5	90.0	89.0	87.0
	1180	N5018	481	2980	3302	75	200	96.8	96.5	95.5	89.0	88.5	85.0
	885	N5620	500	2900	4402	75	200	96.8	96.5	95.5	85.5	83.0	76.5
4500	3555	N5018	522	3500	1233	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	529	3400	2469	70	200	96.8	96.5	95.5	91.0	90.0	89.0
	1180	N5018	541	3350	3714	70	200	96.8	96.5	95.5	89.0	88.5	85.0
5000	3555	N5018	580	3900	1370	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	588	3800	2744	70	200	96.8	96.5	95.5	91.0	90.0	89.0
	1180	N5620	593	3700	4127	70	200	97.0	96.5	96.0	90.0	89.5	86.0
6000	3555	N5018	696	4650	1644	60	200	96.5	96.0	95.0	92.5	92.0	91.0
	1775	N5018	704	4550	3292	70	200	97.0	96.5	96.0	91.0	90.0	89.0
	1180	N5620	712	4400	4953	70	200	97.0	96.5	96.0	90.0	89.5	86.0
7000	3560	N5620	803	5200	1915	60	200	97.0	96.5	95.5	93.0	92.5	91.5
	1780	N5620	812	5100	3830	70	200	97.0	97.0	96.0	92.0	91.0	90.0
7500	3560	N5620	861	5550	2052	60	200	97.0	96.5	95.5	93.0	92.5	91.5
	1780	N5620	868	5450	4104	70	200	97.2	97.0	96.0	92.0	91.0	90.0

Note: (1) Above data are typical values and for reference only.

(2) For motor Performance test per ANSI/IEEE standard method F1 with reduced voltage starting characteristics.

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## TW21TN-W PERFORMANCE DATA

OUTPUT HP	FULL LOAD RPM	FRAME SIZE	CURRENT		TORQUE			EFFICIENCY			POWER FACTOR		
			FULL LOAD (A)	LOCKED ROTOR (A)	FULL LOAD (kg-m)	LOCKED ROTOR (%)	BREAK DOWN (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)	FULL LOAD (%)	3/4 LOAD (%)	1/2 LOAD (%)
900	880	N4014	76	440	996	80	200	95.0	94.5	93.0	81.0	77.5	69.0
1000	880	N4014	85	490	1107	80	200	95.0	94.5	93.5	81.0	77.5	69.0
1250	1180	N4014	100	620	1032	80	200	95.5	95.0	93.5	85.0	83.0	77.0
	880	N4014	105	610	1384	80	200	95.0	94.5	93.5	81.5	78.0	69.5
1350	1180	N4014	109	670	1114	80	200	95.5	95.0	93.5	85.0	83.0	77.0
	880	N4014	113	650	1494	80	200	95.0	94.5	93.5	82.0	78.5	70.0
1500	3550	N4014	113	760	412	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	116	750	823	80	200	95.5	94.5	93.0	88.5	87.5	83.5
	1180	N4014	119	740	1238	80	200	95.5	95.0	93.5	86.0	84.0	78.0
	880	N4516	123	710	1660	80	200	95.5	95.5	94.5	83.0	81.0	74.0
1750	3550	N4014	131	890	480	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	135	870	960	80	200	95.5	94.5	93.0	88.5	87.5	83.5
	1180	N4014	139	870	1444	80	200	95.5	95.0	94.0	86.0	84.0	78.0
	880	N4516	144	870	1937	80	200	95.8	95.5	94.5	83.0	81.0	74.0
2000	3550	N4014	150	1000	549	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1775	N4014	154	990	1097	80	200	95.5	94.5	93.0	89.0	88.0	84.0
	1180	N4516	157	980	1651	80	200	95.5	95.0	94.0	87.0	86.0	82.0
	885	N4516	165	970	2201	80	200	95.5	95.5	94.5	83.0	81.0	74.0
2250	3550	N4014	169	1130	617	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1780	N4014	173	1120	1231	80	200	95.5	94.5	93.0	89.0	88.0	84.0
	1180	N4516	177	1100	1857	80	200	95.5	95.0	94.0	87.0	86.0	82.0
	885	N4516	185	1070	2476	80	200	95.8	95.5	94.5	83.0	81.0	74.0
2500	3550	N4014	188	1260	686	70	200	95.5	94.5	93.0	91.0	90.5	89.0
	1780	N4014	192	1240	1368	80	200	95.5	95.0	94.0	89.0	88.0	84.0
	1180	N4516	195	1200	2064	80	200	96.0	95.5	94.5	87.0	86.0	82.0
	885	N5018	201	1160	2751	80	200	96.5	96.0	95.0	84.0	82.0	75.0
2750	3550	N4516	204	1380	755	70	200	96.0	95.0	94.5	91.5	91.0	89.5
	1780	N4516	207	1330	1505	80	200	96.0	95.5	94.5	90.5	89.0	84.5
	1185	N4516	215	1330	2260	80	200	96.0	95.5	94.5	87.0	86.0	82.0
	885	N5018	221	1280	3027	80	200	96.5	96.0	95.0	84.0	82.0	75.0
3000	3560	N4516	223	1510	821	70	200	96.0	95.5	94.5	91.5	91.0	89.5
	1780	N4516	224	1450	1642	80	200	96.5	96.0	95.0	90.5	89.0	84.5
	1185	N5018	228	1420	2466	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	885	N5018	242	1400	3302	80	200	96.5	96.0	95.0	84.0	82.0	75.0
3500	3560	N4516	260	1760	958	70	200	96.0	95.0	94.5	91.5	91.0	89.5
	1780	N4516	262	1680	1915	80	200	96.5	96.0	95.0	90.5	89.0	84.5
	1185	N5018	266	1650	2877	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	885	N5620	278	1600	3852	80	200	96.5	96.0	95.0	85.0	82.5	75.5
3750	3560	N4516	279	1880	1026	70	200	96.0	95.0	94.5	91.5	91.0	89.5
	1780	N4516	280	1800	2052	80	200	96.5	96.0	95.0	90.5	89.0	84.5
	1185	N5018	285	1770	3082	80	200	96.5	96.0	95.0	89.0	87.0	83.0
	890	N5620	298	1710	4104	80	200	96.5	96.0	95.0	85.0	82.5	75.5
4000	3560	N5018	294	1980	1094	60	200	96.5	96.0	94.0	92.0	91.5	90.0
	1785	N5018	297	1930	2183	70	200	96.5	96.0	95.0	91.0	90.5	88.0
	1185	N5018	304	1890	3288	70	200	96.5	96.0	95.0	89.0	87.0	83.0
4500	3560	N5018	331	2220	1231	60	200	96.5	96.0	95.0	92.0	91.5	90.0
	1785	N5018	334	2150	2455	70	200	96.7	96.5	95.5	91.0	90.5	88.0
	1185	N5620	338	2090	3699	70	200	96.5	96.0	95.0	90.0	89.0	85.0
5000	3560	N5018	368	2430	1368	60	200	96.5	96.0	95.0	92.0	91.5	90.0
	1785	N5018	370	2400	2728	70	200	97.0	96.8	96.0	91.0	90.5	88.0
	1185	N5620	375	2310	4110	70	190	96.7	96.5	95.5	90.0	89.0	85.0
6000	3560	N5620	435	2870	1642	60	190	96.8	96.5	95.0	93.0	92.0	90.5
	1785	N5620	439	2820	3274	70	200	97.0	96.5	96.0	92.0	91.0	89.0
7000	3560	N5620	507	3350	1915	60	190	96.8	96.5	95.0	93.0	92.0	90.5
	1785	N5620	512	3250	3820	70	200	97.0	96.5	96.0	92.0	91.0	89.0

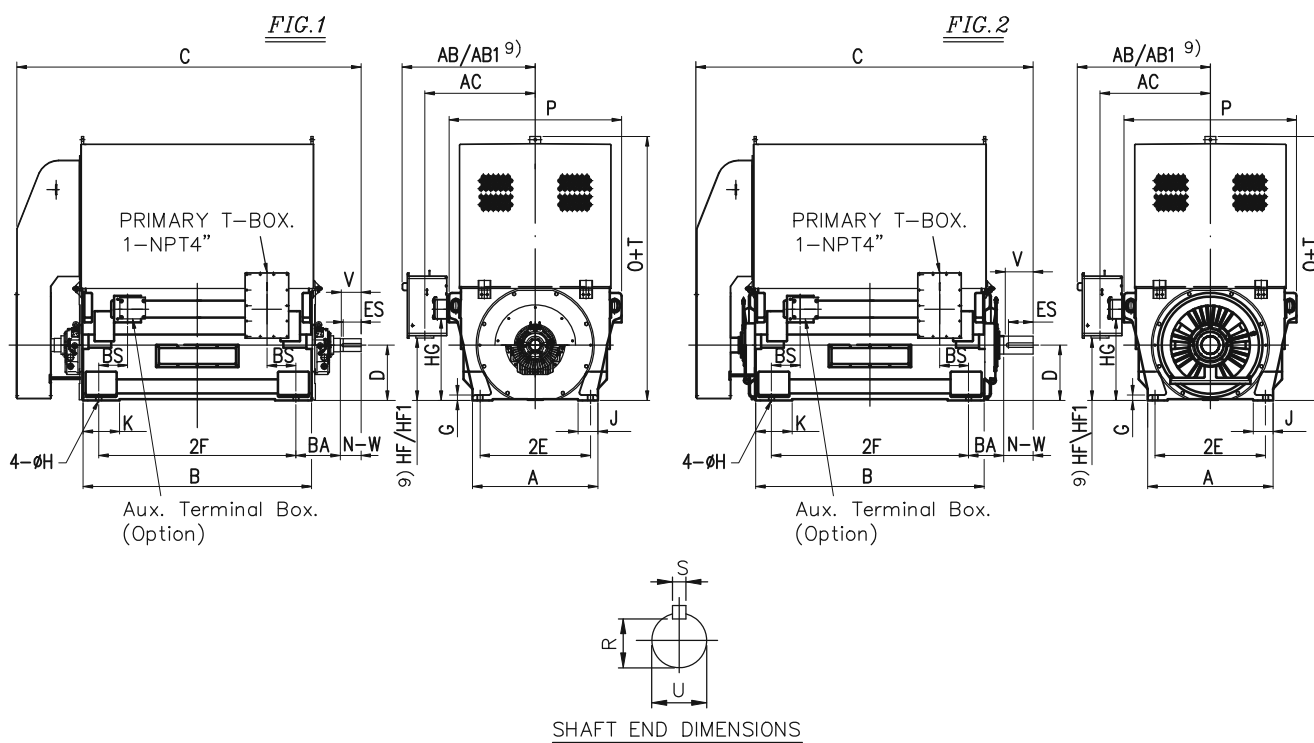
Note: (1) Above data are typical values and for reference only.

(2) For motor Performance test per ANSI/IEEE standard method F1 with reduced voltage starting characteristics.

**ALL DATA ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**



# OUTLINE DIMENSION FOR TOTALLY ENCLOSED AIR TO AIR COOLED (TEAAC)



FRAME NO.	POLES	FIG. NO.	A	B	C <sup>6)</sup>	D	2E	2F	G	H	J	K	P	AB <sup>9)</sup>	AC	BA	BS
N4014	2	1	37.40	67.96	104.4	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	15.75	8.94
	4~8	2	37.40	67.96	104.1	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	12.40	8.94
N4516	2	1	41.34	73.86	115.4	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	15.75	10.28
	4~8	2	41.34	73.86	113.2	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	12.40	10.28
N5018	2	1	45.28	83.31	125.6	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	16.73	11.50
	4~8	2	45.28	83.31	122.7	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	13.19	11.50
N5620	2	1	50.00	91.19	137.5	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	17.72	11.50
	4	2	50.00	91.19	134.5	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50
	6~8	2	50.00	91.19	134.5	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50

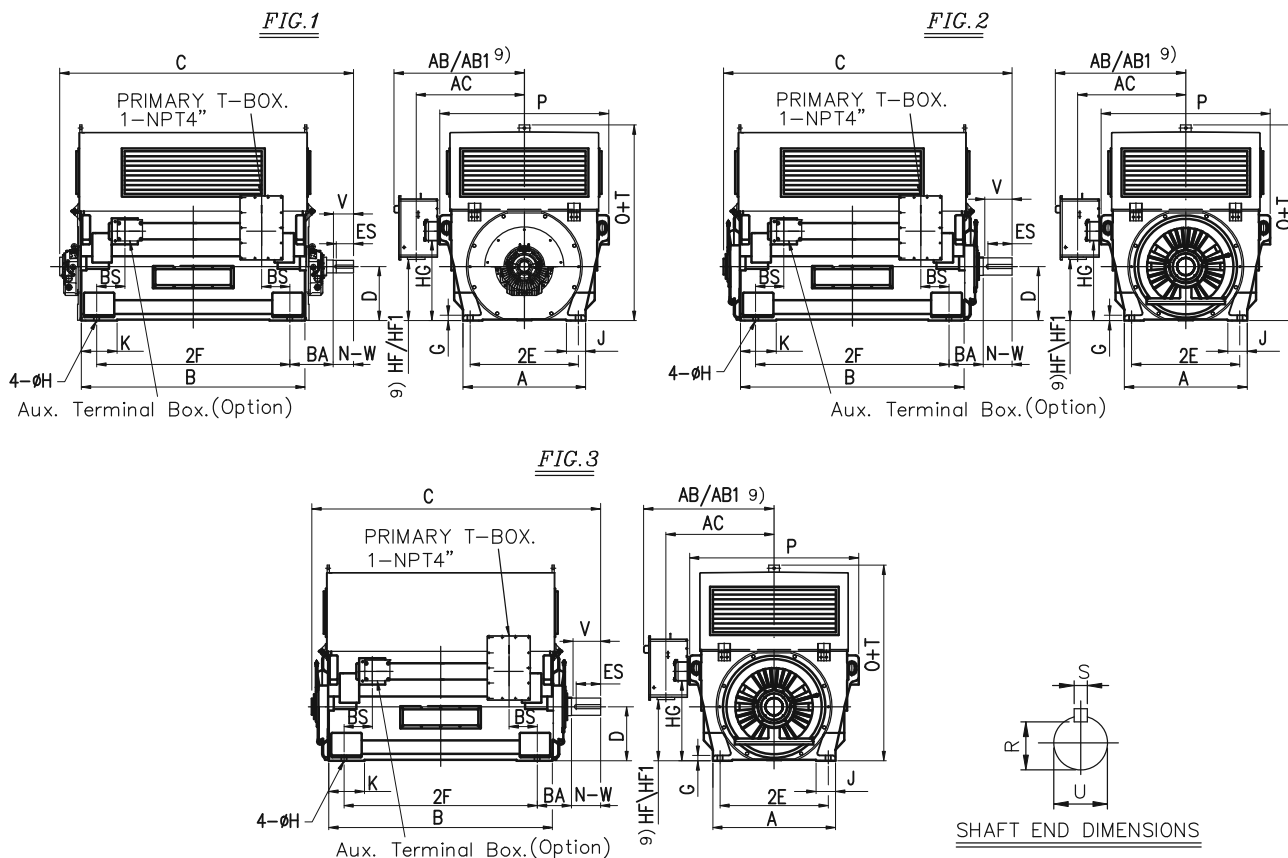
FRAME NO.	POLES	FIG. NO.	O+T	HF <sup>9)</sup>	HG	AB1 <sup>9)</sup>	HF1 <sup>9)</sup>	SHAFT END						BEARING		APPROX. WEIGHT (LBS)
								U	N-W	ES	S	R	V	D.E.	N.D.E.	
N4014	2	1	82.4	6.50	20.41	48.11	2.95	3.75	6.70	5.50	0.875	3.261	6.50	9S-90 <sup>7)</sup>	9S-90 <sup>7)</sup>	14100
	4~8	2	82.4	6.50	20.41	48.11	2.95	5.50	9.85	8.66	1.250	4.803	9.60	6230C3	6230C3	13510
N4516	2	1	89.5	9.80	23.72	50.08	6.26	4.375	8.30	6.70	1.000	3.817	8.10	11-110 <sup>8)</sup>	11-110 <sup>8)</sup>	17620
	4~8	2	89.5	9.80	23.72	50.08	6.26	5.875	9.85	8.66	1.500	5.028	9.60	6232C3	6232C3	17180
N5018	2	1	98.9	14.13	28.15	52.05	10.59	4.875	8.30	6.70	1.250	4.169	8.10	11-125 <sup>8)</sup>	11-125 <sup>8)</sup>	23130
	4~8	2	98.9	14.13	28.15	52.05	10.59	6.30	9.85	8.66	1.500	5.459	9.60	6234C3	6234C3	22380
N5620	2	1	114.2	18.66	32.56	54.21	15.12	5.25	8.30	6.70	1.250	4.550	8.10	14-125 <sup>8)</sup>	14-125 <sup>8)</sup>	30850
	4	2	114.2	18.66	32.56	54.21	15.12	6.30	11.81	9.84	1.500	5.459	11.6	NU234C3+6234C3	NU234C3	29800
	6~8	2	114.2	18.66	32.56	54.21	15.12	7.00	11.81	9.84	1.750	6.014	11.6	NU238C3+6238C3	NU234C3	29800

Unit: inch

Note:

- 1) Dimension D tolerance : +0.00 inch ~ -0.06 inch.
- 2) Dimension U tolerance : +0.00 inch ~ -0.001 inch.
- 3) Dimension R tolerance : +0.00 inch ~ -0.015 inch.
- 4) Dimension V = Length of shaft available for coupling.
- 5) Dimensions A, B, C, G, AB, AB1, O+T, HF are approximate values.
- 6) C dimension may be extended to meet low noise level.
- 7) Oil lubricated self cooled sleeve bearings.
- 8) Forced feed lubricated sleeve bearings.
- 9) Dimensions AB ,HF for 4160 voltage and below  
Dimensions AB1 ,HF1 for 4160 voltage to 6600 voltage
- 10) For direct coupled. Data for belt drive on request.
- 11) 2 Pole and 4 Pole rotation : Uni-Directional.

# OUTLINE DIMENSION FOR WEATHER PROTECTED TYPE I (WPI)



FRAME NO.	POLES	FIG. NO.	A	B	C <sup>6)</sup>	D	2E	2F	G	H	J	K	P <sup>6)</sup>	AB <sup>9)</sup>	AC	BA	BS
N4014	2	1	37.40	67.96	91.9	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	15.75	8.94
	4 6~8	2 3	37.40	67.96	89.1	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	12.40	8.94
N4516	2	1	41.34	73.86	100.4	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	15.75	10.28
	4 6~8	2 3	41.34	73.86	96.7	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	12.40	10.28
N5018	2	1	45.28	83.31	110.0	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	16.73	11.50
	4 6~8	2 3	45.28	83.31	106.2	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	13.19	11.50
N5620	2	1	50.00	91.19	119.8	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	17.72	11.50
	4	2	50.00	91.19	117.6	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50
	6~8	3	50.00	91.19	117.6	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50

FRAME NO.	POLES	FIG. NO.	O+T <sup>6)</sup>	HF <sup>9)</sup>	HG	AB1 <sup>9)</sup>	HF1 <sup>9)</sup>	SHAFT END						BEARING		APPROX. WEIGHT (LBS)
								U	N-W	ES	S	R	V	D.E.	N.D.E.	
N4014	2	1	60.1	6.50	20.41	48.11	2.95	3.75	6.70	5.50	0.875	3.261	6.50	9S-90 <sup>7)</sup>	9S-90 <sup>7)</sup>	12100
	4 6~8	2 3	60.1	6.50	20.41	48.11	2.95	5.50	9.85	8.66	1.250	4.803	9.60	6230C3	6230C3	11530
N4516	2	1	66.8	9.80	23.72	50.08	6.26	4.375	8.30	6.70	1.000	3.817	8.10	11-110 <sup>8)</sup>	11-110 <sup>8)</sup>	15160
	4 6~8	2 3	66.8	9.80	23.72	50.08	6.26	5.875	9.85	8.66	1.500	5.028	9.60	6232C3	6232C3	14720
N5018	2	1	73.7	14.13	28.15	52.05	10.59	4.875	8.30	6.70	1.250	4.169	8.10	11-125 <sup>8)</sup>	11-125 <sup>8)</sup>	20110
	4 6~8	2 3	73.7	14.13	28.15	52.05	10.59	6.30	9.85	8.66	1.500	5.459	9.60	6234C3	6234C3	19360
N5620	2	1	78.4	18.66	32.56	54.21	15.12	5.25	8.30	6.70	1.250	4.550	8.10	14-125 <sup>8)</sup>	14-125 <sup>8)</sup>	26500
	4	2	78.4	18.66	32.56	54.21	15.12	6.30	11.81	9.84	1.500	5.459	11.6	NU234C3+ 6234C4	NU234C3	25400
	6~8	3	78.4	18.66	32.56	54.21	15.12	7.00	11.81	9.84	1.750	6.014	11.6	NU238C3+ 6238C3	NU234C3	25400

Note:

- 1) Dimension D tolerance : +0.00 inch ~ -0.06 inch.
- 2) Dimension U tolerance : +0.00 inch ~ -0.001 inch.
- 3) Dimension R tolerance : +0.00 inch ~ -0.015 inch.
- 4) Dimension V = Length of shaft available for coupling.
- 5) Dimensions A, B, C, G, AB, AB1, O+T, HF are approximate values.
- 6) C, P, O+T dimension may be extended to meet low noise level.
- 7) Oil lubricated self cooled sleeve bearings.
- 8) Forced feed lubricated sleeve bearings.
- 9) Dimensions AB, HF for 4160 voltage and below  
Dimensions AB1, HF1 for 4160 voltage to 6600 voltage
- 10) For direct coupled. Data for belt drive on request.
- 11) 2 Pole and 4 Pole rotation : Uni-Directional.

Unit: inch

# OUTLINE DIMENSION FOR WEATHER PROTECTED TYPE II (WP11)

FIG.1

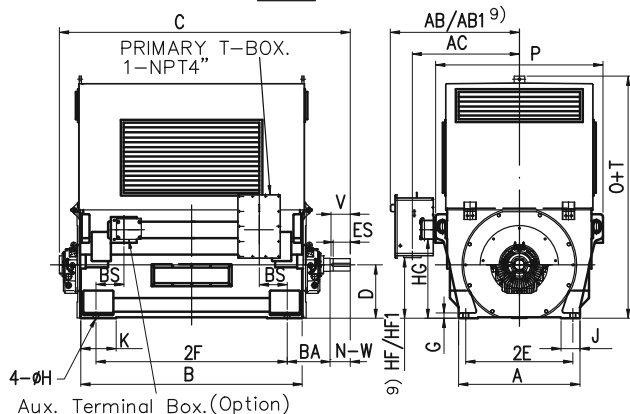


FIG.2

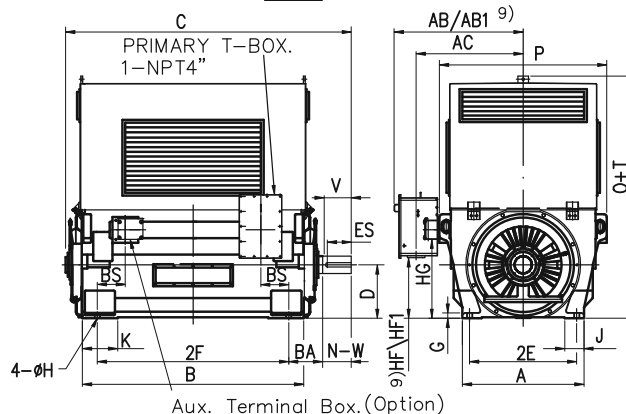
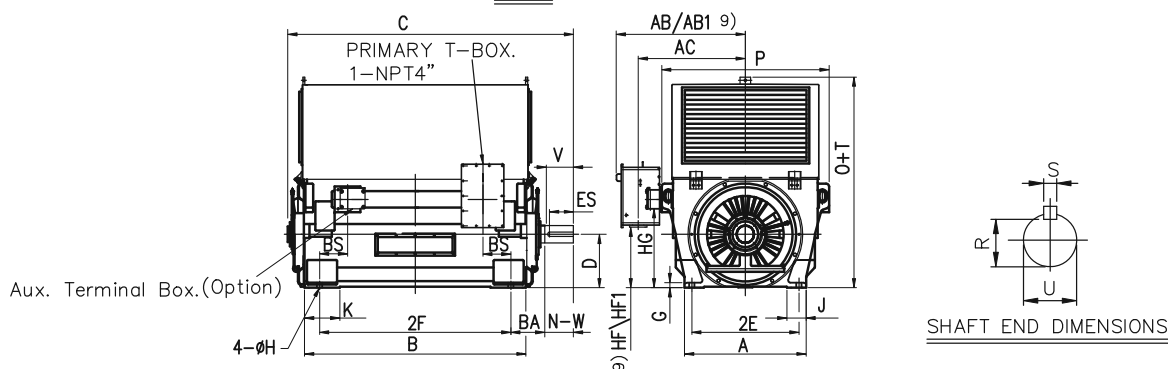


FIG.3



FRAME NO.	POLES	FIG. NO.	A	B	C <sup>6)</sup>	D	2E	2F	G	H	J	K	P <sup>6)</sup>	AB <sup>9)</sup>	AC	BA	BS
N4014	2	1	37.40	67.96	91.9	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	15.75	8.94
	4 6~8	2 3	37.40	67.96	89.1	15.75	31.50	55.12	1.57	1.65	7.09	12.01	56.70	47.72	39.30	12.40	8.94
N4516	2	1	41.34	73.86	100.4	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	15.75	10.28
	4 6~8	2 3	41.34	73.86	96.7	17.72	35.43	62.99	1.77	1.88	7.88	13.78	60.63	49.69	41.26	12.40	10.28
N5018	2	1	45.28	83.31	110.0	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	16.73	11.50
	4 6~8	2 3	45.28	83.31	106.2	19.69	39.37	70.87	1.96	2.20	7.88	14.57	64.57	51.66	43.23	13.19	11.50
N5620	2	1	50.00	91.19	119.8	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	17.72	11.50
	4	2	50.00	91.19	117.6	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50
	6~8	3	50.00	91.19	117.6	22.05	44.09	78.74	2.16	2.20	7.88	14.57	68.90	53.82	45.40	13.98	11.50

FRAME NO.	POLES	FIG. NO.	O+T <sup>6)</sup>	HF <sup>9)</sup>	HG	AB1 <sup>9)</sup>	HF1 <sup>9)</sup>	SHAFT END						BEARING		APPROX. WEIGHT (LBS)
								U	N-W	ES	S	R	V	D.E.	N.D.E.	
N4014	2	1	77.8	6.50	20.41	48.11	2.95	3.75	6.70	5.50	0.875	3.261	6.50	9S-90 <sup>7)</sup>	9S-90 <sup>7)</sup>	12760
	4 6~8	2 3	77.8	6.50	20.41	48.11	2.95	5.50	9.85	8.66	1.250	4.803	9.60	6230C3	6230C3	12170
N4516	2	1	85.5	9.80	23.72	50.08	6.26	4.375	8.30	6.70	1.000	3.817	8.10	11-110 <sup>8)</sup>	11-110 <sup>8)</sup>	15900
	4 6~8	2 3	85.5	9.80	23.72	50.08	6.26	5.875	9.85	8.66	1.500	5.028	9.60	6232C3	6232C3	15460
N5018	2	1	94.3	14.13	28.15	52.05	10.59	4.875	8.30	6.70	1.250	4.169	8.10	11-125 <sup>8)</sup>	11-125 <sup>8)</sup>	21040
	4 6~8	2 3	94.3	14.13	28.15	52.05	10.59	6.30	9.85	8.66	1.500	5.459	9.60	6234C3	6234C3	20290
N5620	2	1	103.0	18.66	32.56	54.21	15.12	5.25	8.30	6.70	1.250	4.550	8.10	14-125 <sup>8)</sup>	14-125 <sup>8)</sup>	27500
	4	2	103.0	18.66	32.56	54.21	15.12	6.30	11.81	9.84	1.500	5.459	11.6	NU234C3+6234C3	NU234C3	26400
	6~8	3	103.0	18.66	32.56	54.21	15.12	7.00	11.81	9.84	1.750	6.014	11.6	NU238C3+6238C3	NU234C3	26400

Note:

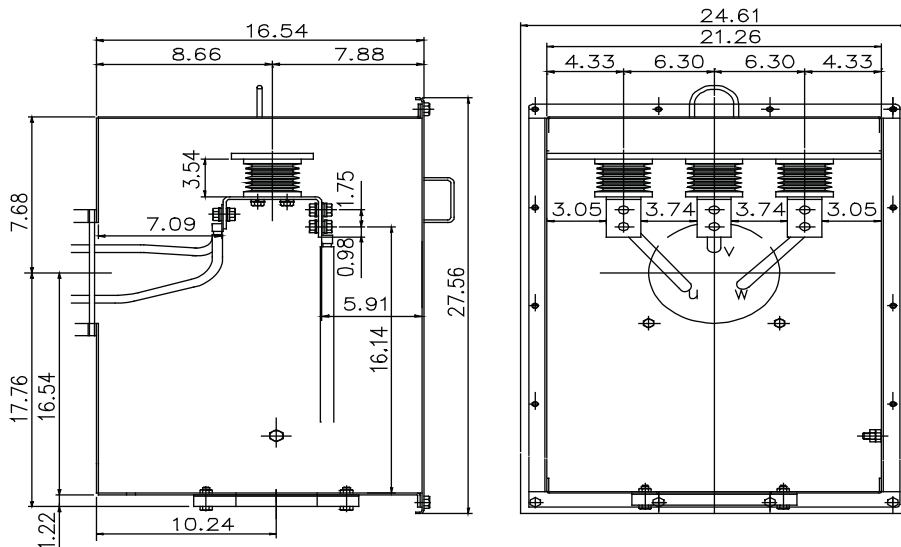
- 1) Dimension D tolerance : +0.00 inch ~ -0.06 inch.
- 2) Dimension U tolerance : +0.00 inch ~ -0.001 inch.
- 3) Dimension R tolerance : +0.00 inch ~ -0.015 inch.
- 4) Dimension V = Length of shaft available for coupling.
- 5) Dimensions A, B, C, G, AB, AB1, O+T, HF are approximate values.

- 6) C , P , O+T dimension may be extended to meet low noise level.
- 7) Oil lubricated self cooled sleeve bearings.
- 8) Forced feed lubricated sleeve bearings.
- 9) Dimensions AB ,HF for 4160 voltage and below  
Dimensions AB1 ,HF1 for 4160 voltage to 6600 voltage
- 10) For direct coupled. Data for belt drive on request.
- 11) 2 Pole and 4 Pole rotation : Uni-Directional.

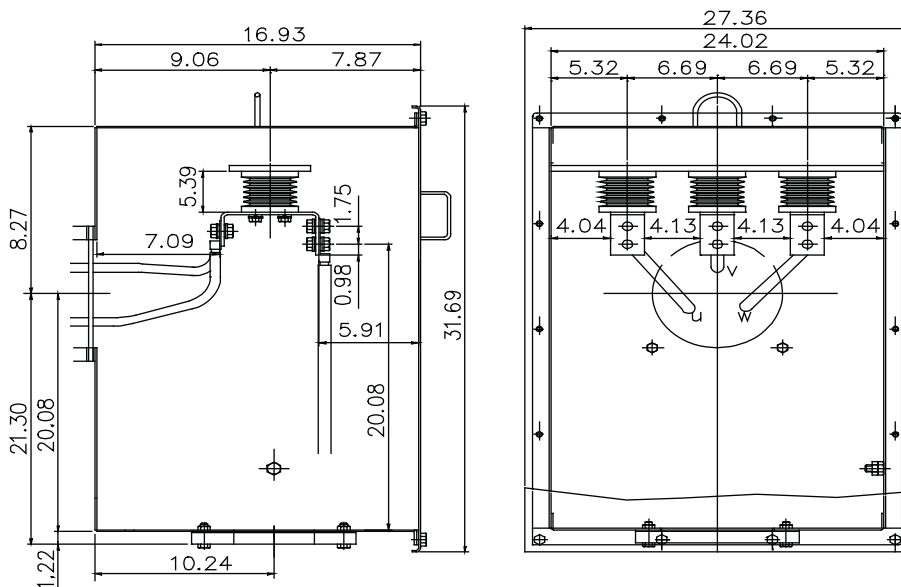
Unit: inch

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