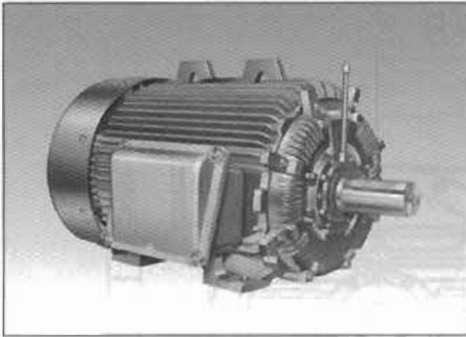


MEDIUM VOLTAGE-TEFC



- AVAILABLE FROM 100 HP TO 800 HP.
- STATOR WINDING FORM WOUND VPI CLASS F INSULATION.
- COMPUTER-AIDED VENTILATION DESIGN.
- CONTINUOUS DUTY, 1.15 S.F.
- 3/60/2300V, 4000V, 4160V.
- WITH COPPER ROTOR BAR FOR LARGER HP RATING.
- 120 VOLT SPACE HEATERS.
- 100Ω WINDING RTD'S.

Standard Premium Features

1. Extra Rugged Frame

Made from quality cast iron for maximum strength and rigidity.
Deep ribbed design ensures maximum heat exchange.

2. Rotor Construction And Balance

Specially designed rotor slots minimize stray losses and improve torque.
Aluminum-bar or copper bar and cooling fan give rugged and reliable operation.
Rotors are then dynamically balanced to I.E.E.E standards.

3. Computer-Aided Ventilation Design

The shape of the bi-directional, non-sparking fan blades and the distance between fan and bracket give maximum air flow and minimize windage noise, suitable for use in division 2 area non sparking fan.

4. Oversized Bearings

Open type full grease relief systems, ball or ball & roller bearings assure long-life and quiet operation.

5. Rigid Shaft

High-grade steel shaft material is used to provide sufficient strength against torque and vibration stress.

6. Stainless Steel Nameplate

Easy-to-read and long-life nameplate made of corrosion-free stainless steel.

7. Specially Designed Over Sized Cast Iron Conduit Box

Made from quality cast iron, rotatable in 90° turns give plenty of room to make proper connections and easy installation.

8. Stator Winding Insulation (Form wound V.P.I. Class F insulation)

The insulation of individual coils consists of a fine-mica tape which is impregnated with special resin and is highly resistant to corona.

MEDIUM VOLTAGE-TEFC

Totally Enclosed Fan Cooled, 3/60/2300,4000, 4160V

NEMA Design B or C, Class F Insulation,

40°C Ambient, Continuous Duty, 1.15 S.F.

PERFORMANCE DATA

HP	Full Load RPM	Frame Size	Full Load				Locked Rotor		Breakdown Torque %FLT	Rotor WR ² 1b-ft ²	NEMA Code Letter	APPROX NET WT. LBS.
			Torque 1b-ft	Eff %	P.F. %	Current AT 4160V	Torque %FLT	Current (4160V) Amps				
100	3555	444TS	148	91.7	89.5	12.6	120	85	220	16	G	1650
	1770	444T	297	91.7	88.0	12.8	200	85	250	40	G	1650
	1170	445T	449	91.7	80.5	14.0	200	85	250	60	G	1750
	875	447TZ	600	91.7	77.0	14.7	140	85	220	110	G	2460
	690	5007N	761	91.0	72.0	15.8	140	85	220	205	G	3520
	575	5007N	913	91.0	66.0	17.2	120	85	220	250	G	3520
125	3560	445TS	184	91.7	89.5	15.8	120	108	250	25	G	1750
	1775	445T	370	91.7	88.0	16.0	200	108	250	50	G	1750
	1175	447TZ	559	92.4	82.0	17.1	200	108	250	75	G	2460
	875	449TZ	750	91.7	77.0	18.3	140	108	220	130	G	2750
	690	5007N	951	91.0	72.0	19.8	140	108	220	250	G	3520
	575	5007N	1141	91.0	66.0	21.5	120	108	220	320	G	3520
150	3565	447TS	221	91.7	90.2	18.6	120	130	250	30	G	2460
	1775	447TZ	444	91.7	88.0	19.1	200	130	250	65	G	2460
	1175	449TZ	670	92.4	81.0	20.8	200	130	250	90	G	2750
	875	5007N	900	91.7	78.0	21.7	140	130	220	200	G	3520
	690	5806N	1141	91.0	74.0	22.9	140	130	220	280	G	4680
	575	5806N	1370	91.0	68.0	25.1	120	130	220	450	G	4680
200	3570	449TS	294	92.4	90.2	24.8	120	170	250	45	G	2750
	1780	449TZ	590	92.4	88.0	25.5	200	170	250	90	G	2750
	1175	5007N	894	92.4	85.0	26.4	200	170	250	135	G	2750
	875	5009N	1200	92.4	78.5	28.5	140	170	220	252	G	4290
	695	5808N	1511	91.7	74.0	30.5	150	170	250	400	G	5280
	575	5808N	1826	91.7	70.0	32.3	120	170	220	600	G	5280
250	3575	5007NS	367	93.0	90.5	30.8	120	215	250	65	G	3520
	1780	5007N	737	93.0	88.5	31.4	200	215	250	140	G	3520
	1180	5009N	1112	93.0	83.0	33.5	200	215	250	175	G	4290
	875	5808N	1500	93.0	78.5	35.5	125	215	220	380	G	5280
	695	5808N	1888	92.4	75.5	37.1	150	215	250	450	G	5280
	580	6806N	2263	92.4	72.0	38.9	120	215	220	900	G	7500
300	3580	5009NS	440	93.6	90.5	36.7	120	260	250	75	G	4290
	1785	5009N	882	93.6	89.5	37.1	200	260	250	165	G	4290
	1185	5808N	1329	93.6	85.0	39.0	200	260	250	300	G	5280
	880	5808N	1790	93.6	80.0	41.5	130	260	220	460	G	5280
	700	6806N	2250	93.0	75.0	44.5	140	260	250	800	G	7500
	580	6806N	2716	92.4	72.0	46.7	120	260	200	1200	G	7500
350	3580	5808NS	513	93.6	90.5	42.8	110	305	220	105	G	5280
	1785	5808N	1029	93.6	90.0	43.0	200	305	250	230	G	5280
	1185	5808N	1551	93.6	85.0	45.5	200	305	250	380	G	5280
	880	5810N	2088	93.6	80.0	48.4	130	305	220	550	G	5830
	700	6806N	2625	93.0	77.0	50.6	140	305	230	880	G	7500
	580	6806N	3168	93.0	74.0	52.7	120	305	200	1330	G	7500
400	3580	5808NS	587	94.1	91.0	48.4	110	340	220	145	G	5280
	1785	5808N	1176	94.1	90.5	48.6	200	340	250	275	G	5280
	1185	5810N	1772	94.1	86.0	51.2	200	340	250	420	G	5830
	885	6806N	2373	93.6	85.0	52.1	110	340	220	800	G	7500
	705	6806N	2979	93.0	77.0	57.8	120	340	230	1000	G	7500
	585	6808N	3590	93.0	74.0	60.2	110	340	200	1550	G	8250
450	3585	6806NS	659	94.1	91.0	54.5	110	390	220	175	G	7500
	1785	5810N	1324	94.1	90.2	54.9	200	390	250	300	G	5830
	1185	5810N	1994	94.1	86.5	57.2	200	390	250	485	G	5830
	885	6806N	2669	93.6	85.0	58.6	110	390	200	950	G	7500
	705	6808N	3351	93.6	78.5	63.4	120	390	230	1150	G	8250
	500	3585	6806NS	732	94.5	91.7	59.7	110	435	220	200	G
1785		5810N	1471	94.5	90.2	60.7	200	435	250	340	G	5830
1185		6806N	2215	94.5	88.5	62.0	200	435	250	700	G	7500
885		6806N	2966	94.1	85.0	64.7	110	435	200	950	G	7500
600	1785	6806N	1765	94.5	90.2	73.0	200	520	250	600	G	7500
	1185	6806N	2658	94.5	88.5	74.3	200	520	250	750	G	7500
	885	6808N	3559	94.1	85.0	78.0	110	520	200	1050	G	8250
700	1785	6806N	2059	95.0	90.2	84.6	200	600	250	700	G	7500
	1185	6808N	3101	95.0	88.5	86.2	200	600	250	850	G	8250
800	1785	6808N	2353	95.0	90.5	96.0	200	680	250	800	G	8250

Note: 1. The above data is based on test as depicted on item 2.

2. Test method: (a) For motors 500HP and under per ANSI/IEEE standard 112 method B and reduced voltage measuring starting performance.

(b) For motors above 500HP per ANSI/IEEE standard 112 method E and reduced voltage measuring starting performance.

3. Design C motors also available on other size motors on request.

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE.

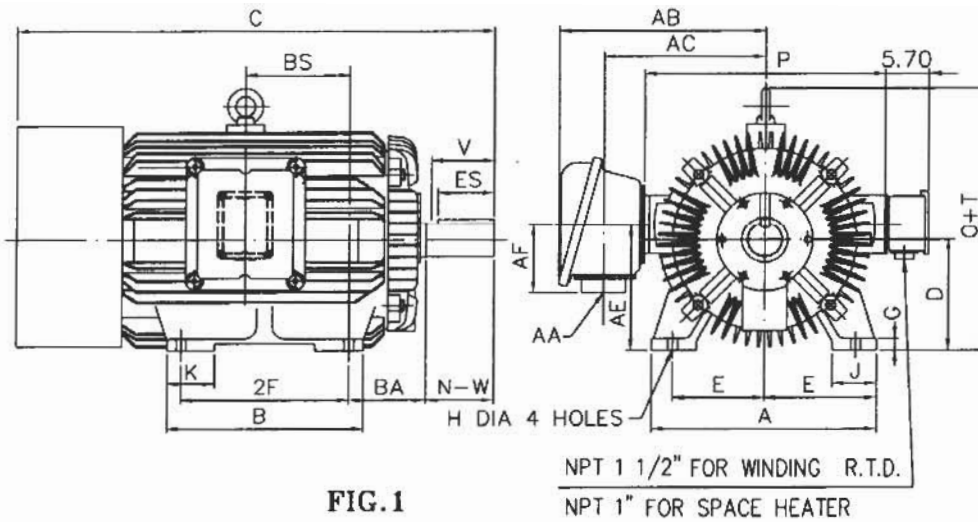


FIG. 1

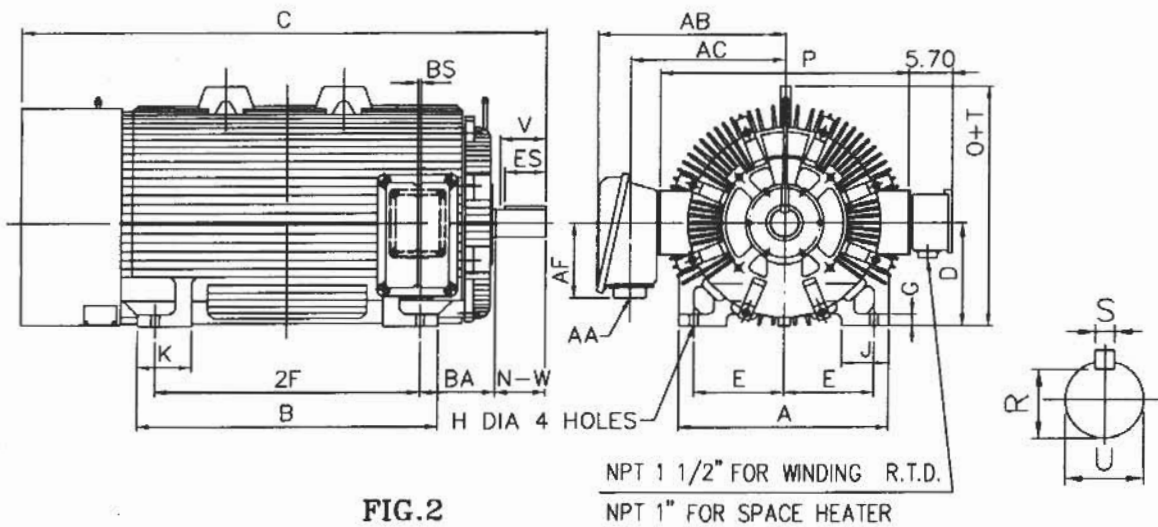


FIG. 2

FRAME	FIG	A	B	C	D	E	2F	G	H	J	K	O+T	P
444TS	1	22.00	17.30	42.34	11.00	9.00	14.50	1.18	0.81	4.30	4.70	27.20	24.80
444T		22.00	17.30	46.09	11.00	9.00	14.50	1.18	0.81	4.30	4.70	27.20	24.80
445TS		22.00	19.30	44.34	11.00	9.00	16.50	1.18	0.81	4.30	4.70	27.20	24.80
445T		22.00	19.30	48.09	11.00	9.00	16.50	1.18	0.81	4.30	4.70	27.20	24.80
447TS		22.00	22.80	53.35	11.00	9.00	20.00	1.18	0.81	4.30	4.70	27.20	26.40
447TZ		22.00	22.80	58.70	11.00	9.00	20.00	1.18	0.81	4.30	4.70	27.20	26.40
449TS		22.00	27.80	57.68	11.00	9.00	25.00	1.18	0.81	4.30	4.70	27.20	26.40
449TZ		22.00	27.80	64.52	11.00	9.00	25.00	1.18	0.81	4.30	4.70	27.20	26.40
5007NS	2	24.80	24.90	50.58	12.50	10.00	22.00	1.38	1.10	5.50	6.50	28.90	30.00
5007N		24.80	24.90	56.46	12.50	10.00	22.00	1.38	1.10	5.50	6.50	28.90	30.00
5009NS		24.80	30.90	58.86	12.50	10.00	28.00	1.38	1.10	5.50	6.50	28.90	30.00
5009N		24.80	30.90	60.75	12.50	10.00	28.00	1.38	1.10	5.50	6.50	28.90	30.00
5806N	4	28.00	28.54	61.64	14.50	11.50	22.00	1.14	1.10	6.30	8.78	33.60	31.11
5808NS	2	28.00	32.00	61.45	14.50	11.50	28.00	1.57	1.10	6.30	7.30	33.00	33.00
5808N		28.00	32.00	67.58	14.50	11.50	28.00	1.57	1.10	6.30	7.30	33.00	33.00
5810NS		28.00	40.00	68.90	14.50	11.50	36.00	1.57	1.10	6.30	7.30	33.00	33.00
5810N		28.00	40.00	78.09	14.50	11.50	36.00	1.57	1.10	6.30	7.30	33.00	33.00
6806NS	4	33.90	35.35	64.13	17.00	13.50	28.00	1.69	1.38	6.30	9.84	38.85	36.62
6806N		33.90	35.35	72.28	17.00	13.50	28.00	1.69	1.38	6.30	9.84	38.85	36.62
6808N	3	33.90	41.20	81.18	17.00	13.50	36.00	1.69	1.38	6.50	8.50	38.00	38.60

- Note: 1. Dimension D Tolerance: +0.00 inch, -0.06 inch.
 2. Dimension U Tolerance: +0.000 inch, -0.001 inch.
 3. Dimension R Tolerance: +0.000 inch, -0.015 inch.
 4. Dimension V is the length of straight part of shaft.

DIMENSIONS ARE FOR REFERENCE ONLY.

MEDIUM VOLTAGE-TEFC

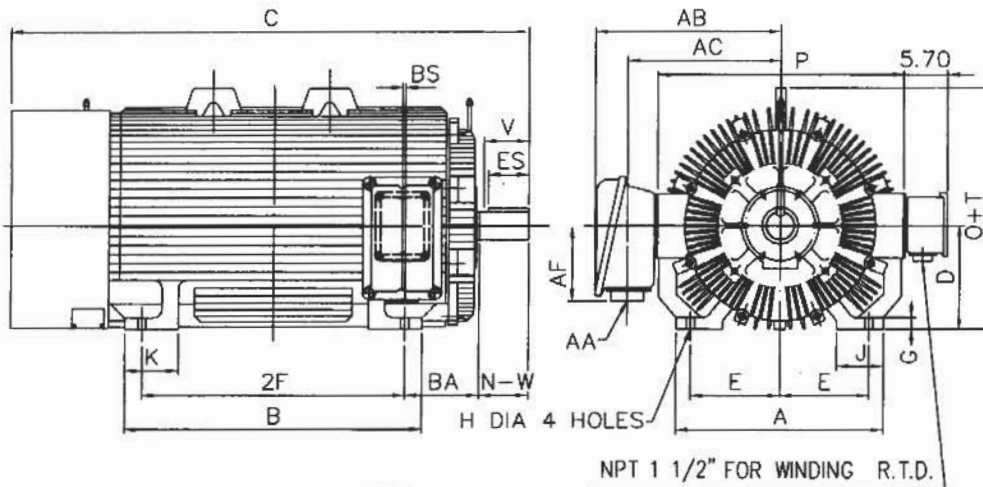


FIG. 3

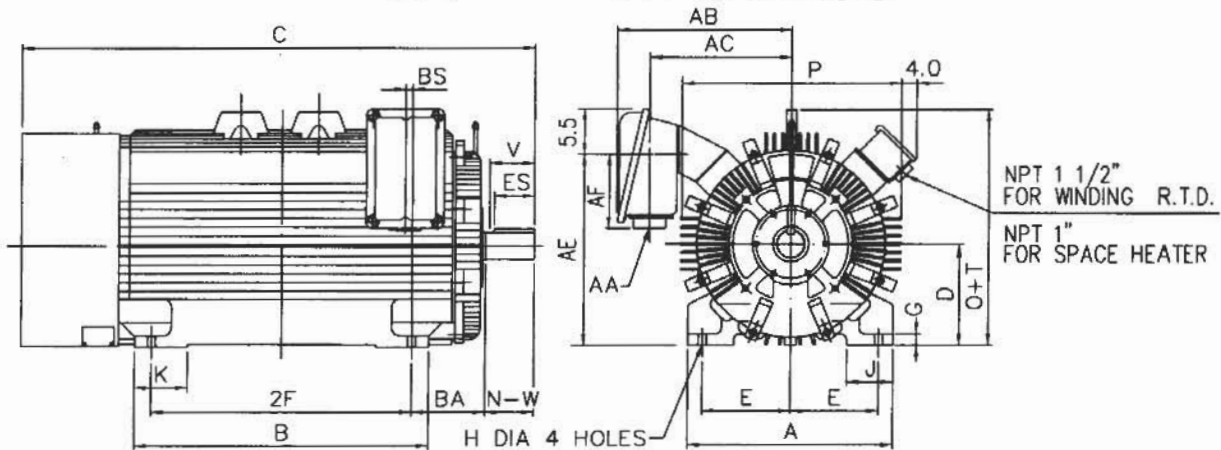


FIG. 4

3RD ANGLE PROJECTION
DIMENSIONS IN INCHES

AA	AB	AC	AE	AF	BA	BS	SHAFT END					APPROX. WEIGHT(LBS)	
							N-W	U	V	R	S		ES
NPT4"	21.46	16.85	14.98	10.34	7.50	8.79	4.75	2.375	4.70	2.021	0.625	3.03	1650
NPT4"	21.46	16.85	14.98	10.34	7.50	8.79	8.50	3.375	8.40	2.880	0.875	6.93	1650
NPT4"	21.46	16.85	14.98	10.34	7.50	9.80	4.75	2.375	4.70	2.021	0.625	3.03	1750
NPT4"	21.46	16.85	14.98	10.34	7.50	9.80	8.50	3.375	8.40	2.880	0.875	6.93	1750
NPT4"	22.26	17.65	11.00	10.34	7.50	14.72	4.75	2.375	4.70	2.021	0.625	3.03	2460
NPT4"	22.26	17.65	11.00	10.34	7.50	14.72	10.125	3.375	9.875	2.880	0.875	8.50	2460
NPT4"	22.26	17.65	11.00	10.34	7.50	14.72	4.75	2.375	4.70	2.021	0.625	3.03	2750
NPT4"	22.26	17.65	11.00	10.34	7.50	14.72	10.125	3.375	9.875	2.880	0.875	8.50	2750
NPT4"	28.39	22.36		10.83	8.50	0.37	5.75	2.625	5.500	2.275	0.625	4.01	3520
NPT4"	28.39	22.36		10.83	8.50	0.37	11.63	3.875	11.35	3.309	1.000	10.00	3520
NPT4"	28.39	22.36		10.83	8.50	0.42	5.75	2.625	5.500	2.275	0.625	4.01	4290
NPT4"	28.39	22.36		10.83	8.50	0.42	11.63	3.875	11.35	3.309	1.000	10.00	4290
NPT4"	30.50	24.61	27.30	10.83	11.50	2.04	11.88	4.875	11.60	4.169	1.250	10.00	4680
NPT4"	29.89	23.86		10.83	10.00	0.42	5.75	2.625	5.500	2.275	0.625	4.01	5280
NPT4"	29.89	23.86		10.83	10.00	0.42	11.88	4.875	11.60	4.169	1.250	10.00	5280
NPT4"	29.89	23.86		10.83	10.00	0.68	5.75	2.625	5.500	2.275	0.625	4.01	5830
NPT4"	29.89	23.86		10.83	10.00	0.68	11.88	4.875	11.60	4.169	1.250	10.00	5830
NPT4"	32.87	26.85	33.05	10.83	11.50	2.42	5.50	2.875	11.60	2.443	0.751	4.75	7500
NPT4"	32.87	26.85	33.05	10.83	11.50	2.42	11.88	4.875	11.60	4.169	1.250	10.00	7500
NPT4"	32.69	26.66		10.83	11.50	1.07	11.88	4.875	11.60	4.169	1.250	10.00	8250