

TECO

INDUCTION MOTORS

EXPLOSION-PROOF



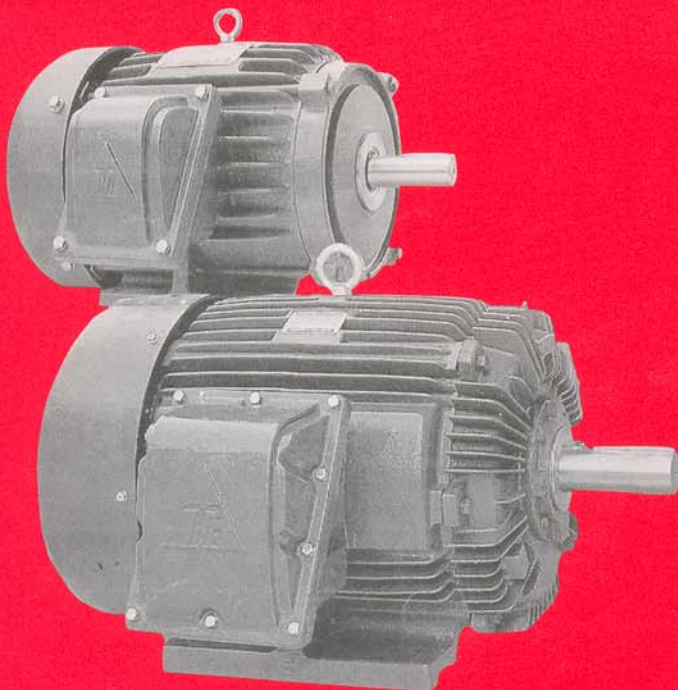
**UNDERWRITERS LABORATORIES INC. LISTED
HAZARDOUS LOCATIONS**

Class I: Group D

Class II: Groups E, F, & G

NEMA Frames 143T-445T

3/4 HP through 150 HP



PREMIUM FEATURES

- **Rugged Cast-Iron Construction**
- **Oversized cast-Iron Conduit Box**
- **Oversized Vacuum Degassed Bearings**
- **Stainless Steel Nameplate and UL Dual Class Label**
- **Non-sparking Fan and Dust Slingers**
- **Low Temperature Rise**
- **Energy Efficient and High Power Factor**
- **Usable on 208 Volts**
- **1.15 Service Factor**
- **CSB Certified through 75 HP**

Explosion-proof, Type AEEAXU

3/60/230-460V (usable on 208V); 575V

Class I-Group D and Class II-Groups E, F, G

NEMA Design B, Class B & F Insulation*

40° C Ambient Temperature, Continuous duty, 1.15 Service Factor

HP	Full Load RPM	Frame Size	Full Load				Locked Rotor		Break-down Torque %FLT	Rotor WR ² 1b-ft ²	NEMA Code Letter	Approx. NET WT. LBS.
			Torque 1b-ft	Eff. %	P.F. %	Current Amps @ 460V	Torque %FLT	Current Amps @ 460V				
¾	1150	143T	3.4	74.0	61.5	1.5	175	12.5	285	0.080	P	66
	1750	143T	3.0	77.0	76.0	1.6	275	15.0	360	0.063	N	66
	1160	145T	4.5	75.5	60.5	2.0	250	15.0	350	0.105	N	73
1	3470	143T	2.3	80.0	86.0	2.0	350	20.0	370	0.050	M	69
	1720	145T	4.6	77.0	78.5	2.3	250	20.0	300	0.085	M	69
	1150	182T	6.9	75.5	77.5	2.4	165	20.0	280	0.200	M	106
2	3460	145T	3.0	81.5	87.5	2.6	245	25.0	270	0.065	L	73
	1715	145T	6.1	80.0	81.5	2.9	235	25.0	295	0.105	L	73
	1160	184T	9.1	80.0	74.5	3.1	170	25.0	315	0.300	L	115
3	3410	182T	4.6	78.5	90.5	4.0	210	32.0	270	0.125	K	106
	1750	182T	9.0	84.0	79.5	4.2	235	32.0	340	0.220	K	106
	1170	213T	13.5	85.5	74.5	4.4	205	32.0	315	0.360	K	170
5	3460	184T	7.6	82.5	93.0	6.1	200	46.0	270	0.235	J	117
	1735	184T	15.1	85.5	86.5	6.3	210	46.0	300	0.395	J	117
	1155	215T	22.7	84.0	78.5	7.1	190	46.0	290	0.925	J	183
7½	3475	213T	11.3	84.0	89.5	9.3	215	63.5	235	0.280	H	190
	1745	213T	22.6	86.5	89.5	9.1	190	63.5	250	0.695	H	190
	1170	254T	33.7	86.5	85.0	9.6	190	63.5	235	1.710	H	291
10	3465	215T	15.2	85.5	90.5	12.1	200	81.0	240	0.380	H	216
	1745	215T	30.1	87.5	90.5	11.8	210	81.0	260	0.955	H	220
	1170	256T	44.9	87.5	84.5	12.7	200	81.0	250	2.550	H	324
15	3510	254T	22.5	86.5	91.5	17.7	200	116.0	220	0.990	G	300
	1750	254T	45.0	88.5	90.5	17.5	205	116.0	250	1.950	G	315
	1165	284T	67.6	88.5	82.5	19.2	190	116.0	220	4.100	G	436
20	3515	256T	29.9	88.5	91.5	23.1	195	145.0	220	1.300	G	357
	1750	256T	60.0	90.2	90.5	22.9	210	145.0	240	2.450	G	359
	1170	286T	89.8	90.2	85.5	24.3	210	145.0	210	7.550	G	502
25	3505	284TS	37.5	88.5	91.0	29.1	185	182.5	220	1.600	G	447
	1750	284T	75.1	90.2	88.5	29.3	210	182.5	245	3.750	G	456
	1170	324T	112.0	91.7	82.5	30.9	185	182.5	215	8.700	G	682
30	3520	286TS	45.0	88.5	91.0	34.9	200	217.5	220	2.100	G	502
	1755	286T	90.0	90.2	90.0	34.6	195	217.5	220	4.600	G	513
	1170	326T	135.0	91.0	85.5	36.1	190	217.5	220	11.800	G	726
40	3550	324TS	59.0	89.5	89.0	47.0	160	290.0	230	3.000	G	691
	1760	324T	119.0	91.0	90.0	45.7	190	290.0	220	6.700	G	735
	1180	364T	178.0	92.4	85.0	47.7	190	290.0	200	15.600	G	902
50	3545	326TS	74.0	89.5	92.0	56.9	185	362.5	220	3.460	G	733
	1765	326T	149.0	91.7	90.5	56.4	190	362.5	230	7.950	G	803
	1175	365T	224.0	91.7	86.5	59.0	195	362.5	200	17.940	G	951
	875	404T	300.0	92.4	80.0	63.0	150	362.5	220	24.500	G	1080
60	3525	364TS	89.0	89.5	94.0	66.8	120	435.0	200	5.450	G	889
	1765	364T	179.0	93.0	87.5	69.0	170	435.0	210	10.800	G	902
	1170	404T	269.0	93.0	84.0	72.0	150	435.0	220	23.100	G	1100
	875	405T	360.0	92.4	80.0	76.0	150	435.0	220	30.000	G	1260
75	3540	365TS	111.0	91.0	93.0	83.0	120	542.5	205	8.050	G	933
	1770	365T	223.0	94.1	86.5	86.3	190	542.5	215	14.700	G	946
	1170	405T	336.0	93.0	84.0	90.0	150	542.5	220	28.900	G	1300
	880	444T	447.0	93.0	81.5	93.0	150	542.5	220	49.200	G	1620
100	3550	405TS	148.0	93.0	89.5	112.0	105	725.0	220	10.900	G	1210
	1770	405T	296.0	93.0	87.5	115.0	150	725.0	220	25.000	G	1370
	1175	444T	447.0	93.0	85.5	118.0	150	725.0	220	50.700	G	1650
	880	445T	596.0	93.0	82.5	122.0	150	725.0	220	64.000	G	1870
125	3555	444TS	185.0	93.0	90.2	140.0	100	907.5	220	16.000	G	1480
	1775	444T	370.0	93.6	87.5	143.0	140	907.5	220	37.900	G	1620
	1175	445T	558.0	93.6	85.5	146.0	150	907.5	220	62.000	G	1870
150	3555	445TS	221.0	93.0	90.2	167.0	100	1085	220	19.000	G	1680
	1775	445T	443.0	93.6	87.5	171.0	140	1085	220	45.500	G	1780

* Class F Insulation is standard for frames 143T-365T and Class F for frames 404T-445T

Note:

1. The above are typical values based on test
2. Actual load & full voltage starting: According to ANSI/IEEE standard 112-1978 method B
3. 150HP is 460 V or 575V only
4. Data subject to change without notice

Explosion-Proof Horizontal Foot-Mounted, Type AEEAXU

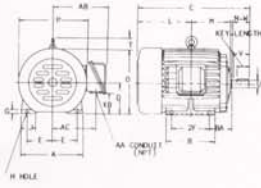


Figure 1

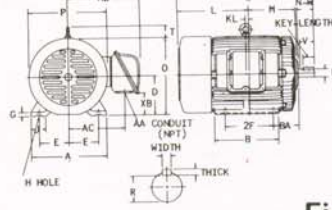


Figure 2

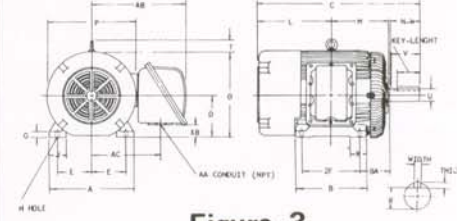


Figure 3

DIMENSIONS IN INCHES

OUTPUT (HP)				Frame Size	Fig. No.	MOUNTING				A	B	C	D	G	J	K	KL	L
2P	4P	6P	8P			E	2F	H	BA									
1 1/2	1	3/4	—	143T	1	2.75	4.00	.34	2.25	6.70	5.10	12.30	3.50	.35	1.40	—	—	5.80
2	1 1/2	1	—	145T		2.75	5.00	.34	2.25	6.70	5.90	13.35	3.50	.35	1.40	—	—	6.35
3	3	1 1/2	—	182T	1	3.75	4.50	.41	2.75	8.80	5.90	14.70	4.50	.65	1.75	—	—	6.95
5	5	2	—	184T		3.75	5.50	.41	2.75	8.80	6.90	15.75	4.50	.65	1.75	—	—	7.50
7 1/2	7 1/2	3	—	213T	1	4.25	5.50	.41	3.50	9.85	6.90	17.98	5.25	.70	1.75	—	—	8.35
10	10	5	—	215T		4.25	7.00	.41	3.50	9.85	8.35	19.48	5.25	.70	1.75	—	—	9.10
15	15	7 1/2	—	254T	1	5.00	8.25	.53	4.25	11.80	9.85	23.38	6.25	0.65	1.95	—	—	11.00
20	20	10	—	256T		5.00	10.00	.53	4.25	11.80	11.80	25.15	6.25	0.65	1.95	—	—	11.90
—	25	15	—	284T	1	5.50	9.50	.53	4.75	14.00	11.80	26.87	7.00	0.70	2.95	—	—	12.75
25	—	—	—	284TS		5.50	9.50	.53	4.75	14.00	11.80	25.50	7.00	0.70	2.95	—	—	12.75
—	30	20	—	286T	1	5.50	11.00	.53	4.75	14.00	13.20	28.37	7.00	0.70	2.95	—	—	13.50
30	—	—	—	286TS		5.50	11.00	.53	4.75	14.00	13.20	27.00	7.00	0.70	2.95	—	—	13.50
—	40	25	—	324T	2	6.25	10.50	.66	5.25	15.75	12.80	30.00	8.00	1.10	3.15	—	—	14.25
40	—	—	—	324TS		6.25	10.50	.66	5.25	15.75	12.80	28.50	8.00	1.10	3.15	—	—	14.25
—	50	30	—	326T	2	6.25	12.00	.66	5.25	15.75	14.35	31.50	8.00	1.10	3.15	—	—	15.00
50	—	—	—	326TS		6.25	12.00	.66	5.25	15.75	14.35	30.00	8.00	1.10	3.15	—	—	15.00
—	60	40	—	364T	2	7.00	11.25	.66	5.88	17.70	13.60	33.63	9.00	1.30	3.55	—	.50	16.25
60	—	—	—	364TS		7.00	11.25	.66	5.88	17.70	13.60	31.50	9.00	1.30	3.55	—	.50	16.25
—	75	50	—	365T	2	7.00	12.25	.66	5.88	17.70	14.75	33.63	9.00	1.30	3.55	—	—	15.75
75	—	—	—	365TS		7.00	12.25	.66	5.88	17.70	14.75	31.50	9.00	1.30	3.55	—	—	15.75
—	—	60	50	404T	3	8.00	12.25	.81	6.62	19.70	15.15	36.69	10.00	1.55	3.95	3.75	—	16.70
—	100	75	60	405T		8.00	13.75	.81	6.62	19.70	16.75	38.19	10.00	1.55	3.95	3.75	—	17.45
100	—	—	—	405TS	8.00	13.75	.81	6.62	19.70	16.75	35.19	10.00	1.55	3.95	3.75	—	17.45	
—	125	100	75	444T	3	9.00	14.50	.81	7.50	22.00	17.50	42.05	11.00	1.55	4.35	4.35	—	18.80
125	—	—	—	444TS		9.00	14.50	.81	7.50	22.00	17.50	38.30	11.00	1.55	4.35	4.35	—	18.80
—	150	125	100	445T	3	9.00	16.50	.81	7.50	22.00	19.50	44.05	11.00	1.55	4.35	4.35	—	19.80
150	—	—	—	445TS		9.00	16.50	.81	7.50	22.00	19.50	40.30	11.00	1.55	4.35	4.35	—	19.80

Frame Size	M	O	P	T	KEY			KEYSEAT	CONDUIT BOX				SHAFT EXTENSION		
					WIDTH	THICK	LENGTH	R	AA	AB	AC	XB	N-W	U	V
143T	4.00	7.50	8.03	—	.1875	.1875	1.41	0.771	3/4	7.65	5.70	1.35	2.25	0.875	2.20
145T	4.50	7.50	8.03	—	.1875	.1875	1.41	0.771	3/4	7.65	5.70	1.35	2.25	0.875	2.20
182T	4.85	9.35	9.60	1.15	.2500	.2500	1.78	0.986	3/4	8.40	6.45	2.35	2.75	1.125	2.70
184T	5.35	9.35	9.60	1.15	.2500	.2500	1.78	0.986	3/4	8.40	6.45	2.35	2.75	1.125	2.70
213T	6.05	10.80	11.10	1.45	.3125	.3125	2.41	1.201	1	10.60	7.45	2.25	3.38	1.375	3.30
215T	6.80	10.80	11.10	1.45	.3125	.3125	2.41	1.201	1	10.60	7.45	2.25	3.38	1.375	3.30
254T	8.20	12.70	12.90	1.75	.3750	.3750	2.91	1.416	1 1/4	12.10	8.95	3.10	4.00	1.625	3.90
256T	9.05	12.70	12.90	1.75	.3750	.3750	2.91	1.416	1 1/4	12.10	8.95	3.10	4.00	1.625	3.90
284T	8.95	14.20	14.35	1.90	.5000	.5000	3.28	1.591	1 1/2	13.05	9.90	3.85	4.62	1.875	4.50
284TS	8.95	14.20	14.35	1.90	.3750	.3750	1.93	1.416	1 1/2	13.05	9.90	3.85	3.25	1.625	3.20
286T	9.70	14.20	14.35	1.90	.5000	.5000	3.28	1.591	1 1/2	13.05	9.90	3.85	4.62	1.875	4.50
286TS	9.70	14.20	14.35	1.90	.3750	.3750	1.93	1.416	1 1/2	13.05	9.90	3.85	3.25	1.625	3.20
324T	10.10	16.10	16.20	2.10	.5000	.5000	3.91	1.845	2	15.95	11.60	3.55	5.25	2.125	5.15
324TS	10.10	16.10	16.20	2.10	.5000	.5000	2.03	1.591	2	15.95	11.60	3.55	3.75	1.875	3.65
326T	10.80	16.10	16.20	2.10	.5000	.5000	3.91	1.845	2	15.95	11.60	3.55	5.25	2.125	5.15
326TS	10.80	16.10	16.20	2.10	.5000	.5000	2.03	1.591	2	15.95	11.60	3.55	3.75	1.875	3.65
364T	11.40	18.05	18.15	2.90	.6250	.6250	4.28	2.021	3	16.75	12.40	4.50	5.88	2.375	5.75
364TS	11.40	18.05	18.15	2.90	.5000	.5000	2.03	1.591	3	16.75	12.40	4.50	3.75	1.875	3.65
365T	11.90	18.05	18.15	2.90	.6250	.6250	4.28	2.021	3	16.75	12.40	4.50	5.88	2.375	5.75
365TS	11.90	18.05	18.15	2.90	.5000	.5000	2.03	1.591	3	16.75	12.40	4.50	3.75	1.875	3.65
404T	12.25	20.30	20.60	2.50	.750	.750	5.67	2.450	3	19.90	14.85	4.35	7.25	2.875	7.15
405T	13.00	20.30	20.60	2.50	.750	.750	5.67	2.450	3	19.90	14.85	4.35	7.25	2.875	7.15
405TS	13.00	20.30	20.60	2.50	.5000	.5000	2.80	1.845	3	19.90	14.85	4.35	4.25	2.125	4.15
444T	14.30	22.50	23.00	3.25	.875	.875	6.93	2.880	3	21.05	16.00	5.10	8.50	3.375	8.40
444TS	14.30	22.50	23.00	3.25	.625	.625	3.03	2.021	3	21.05	16.00	5.10	4.75	2.375	4.70
445T	15.25	22.50	23.00	3.25	.875	.875	6.93	2.880	3	21.05	16.00	5.10	8.50	3.375	8.40
445TS	15.25	22.50	23.00	3.25	.625	.625	3.03	2.021	3	21.05	16.00	5.10	4.75	2.375	4.70

Note:

- (1) Dimension D tolerance: +0.00inch – 0.03inch (Frames 143T – 365T)
+0.00inch – 0.06inch (Frames 404T – 445T)
- (2) Dimension U tolerance: +0.000inch – 0.0005inch (Frames 143T – 215T)
+0.000inch – 0.001inch (Frames 254T – 445T)

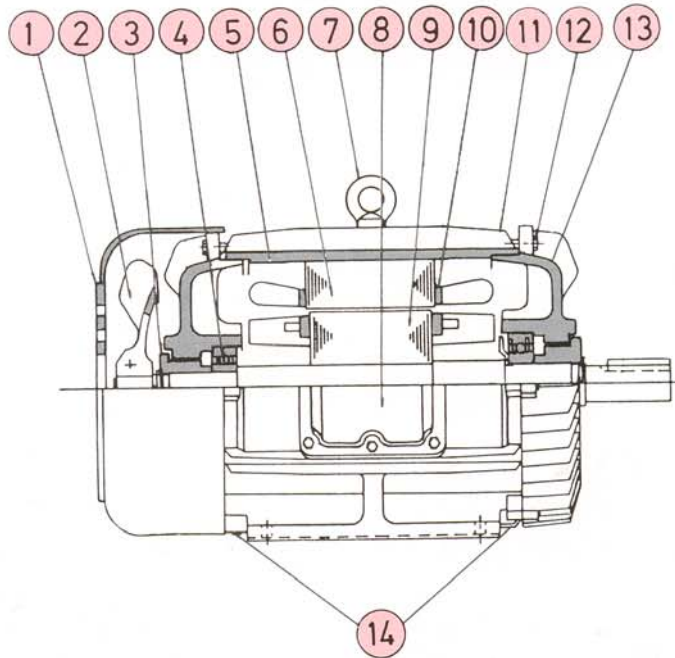
- (3) Dimension R tolerance: +0.000inch – 0.015 inch
- (4) Dimension V is the length of straight part of shaft

All data subject to change without notice. For construction use only certified data.

TECO

IS HERE TO SAVE AND LAST

Typical Construction and Features, Type AEEAXU



- ① Cast Iron Fan Cover
- ② Non-sparking External Fan
- ③ Non-sparking Dust Flinger
- ④ Oversized Bearings
- ⑤ Cast-Iron frame
- ⑥ Copper Winding and Electro-magnetic Steel Laminations
- ⑦ Forged Eye-bolt
- ⑧ Oversized Cast Iron Conduit Box
- ⑨ Dynamically Balanced Die-cast Rotor
- ⑩ Improved Non-hydroscopic Insulation
- ⑪ Efficient Close-High-Fins Design
- ⑫ Zn-Cd Plated Hardware
- ⑬ Cast Iron Endbells
- ⑭ Stainless Breather and Drains

Hazardous Locations Listed by

Class	Group	Explosive Environment
II	D	Atmospheres Containing gasoline, hexane, naphtha, benzine, butane, propane, alcohols, acetone, benzol, lacquer solvent vapors, or natural gas.
	E	Atmospheres containing dusts of aluminum, magnesium, or their commercial alloys.
	F	Atmospheres containing carbon black, coal, or coke dust.
	G	Atmospheres containing flour, starch, or grain dust.

All motors comply with operating temperature code T2D for Group D and T3B for Group E.F.G.

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