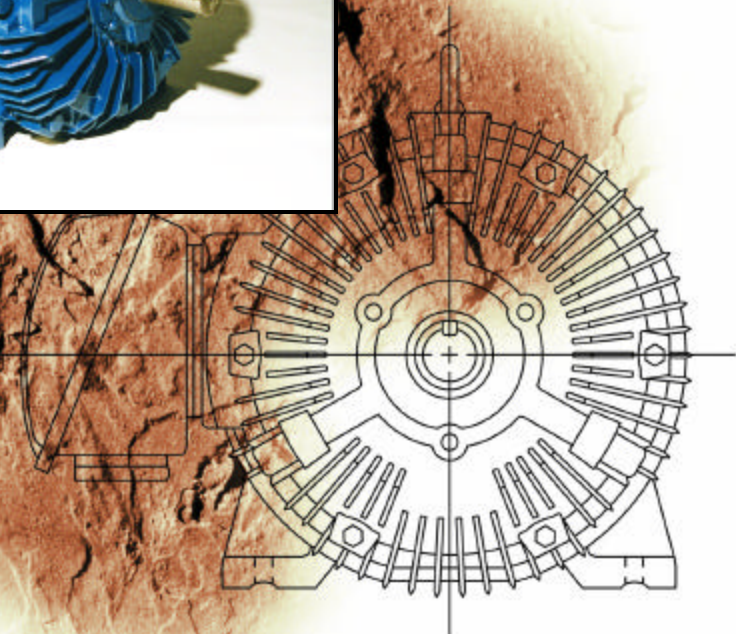
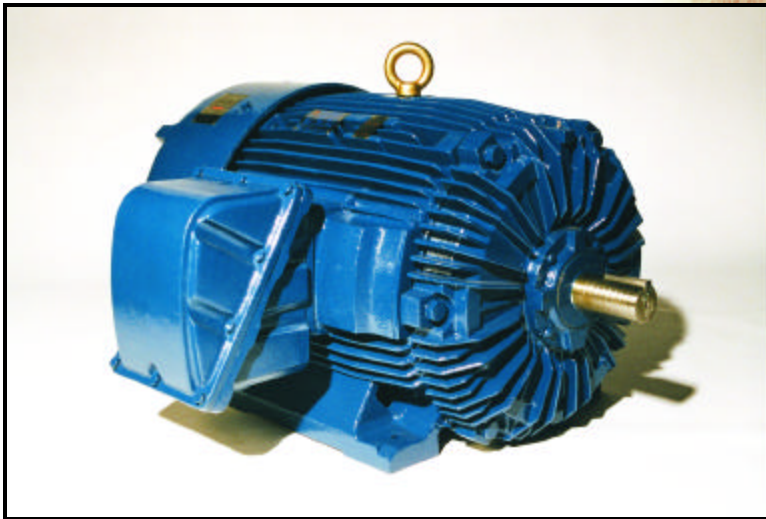


# TEXP HE™ EXPLOSION PROOF PREMIUM EFFICIENCY



EPACT



# TEXP HE™ Premium efficiency design exceeds the requirements of EPACT.

## Outstanding Performance Combined with a Rugged Explosion Proof Design

The new TEXP HE™ explosion-proof motor delivers reliable service in the most demanding environments.

Featuring all cast-iron construction, this 1 HP-150 HP \* line of TEXP HE™ motors is UL/CSA listed for Class I Group D and Class II Group E, F and G locations. (All ratings comply with operating temperature code T2D for Group D and T3B for Group E, F and G).

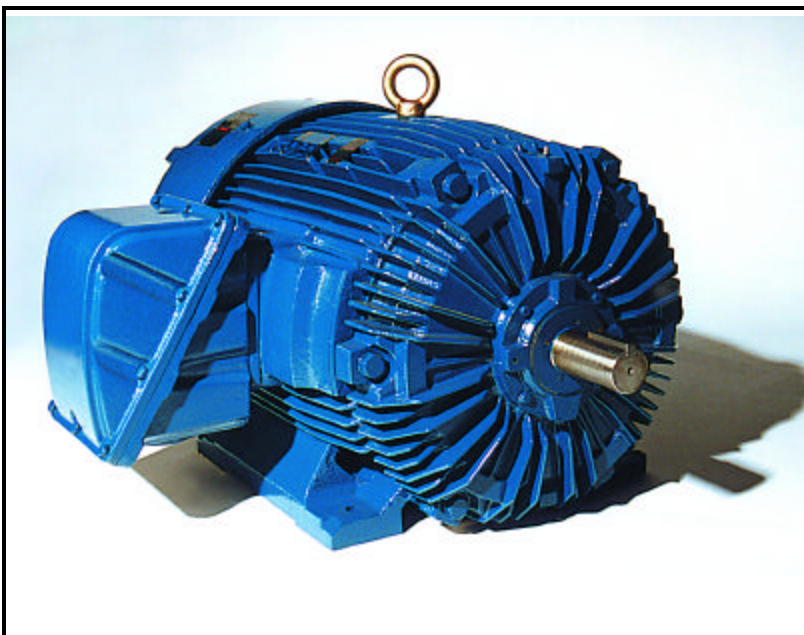
These NEMA design B units are 3 phase, 60Hz and are available in 575V or 230/460V (Usable on 208V). 150 HP ratings are available in 575V or 460V only.

The TEXP HE™ delivers many impressive design features including non-sparking external fans, non-sparking brass flingers on both ends, an oversized cast-iron conduit box and a non-hygroscopic insulation system.

All frames are built with a Class F insulation system. All units are rated for continuous duty operation, a 40°C ambient and a 1.15 service factor.

\* Ratings above 150 HP are available. Contact your nearest TECO - Westinghouse office for details.

Class	Group	U.L. Hazardous Location Descriptions
I	D	Atmospheres containing gasoline, hexane, naphtha, benzene, butane, propane, alcohols, acetone, benzol, lacquer solvent vapors, or natural gas.
II	E	Atmospheres containing dusts of aluminum, magnesium, or their commercial alloys.
II	F	Atmospheres containing carbon black, coal or coke dust.
II	G	Atmospheres containing flour, starch, or grain dust.



## STANDARD FEATURES TEXP HE™ MOTORS

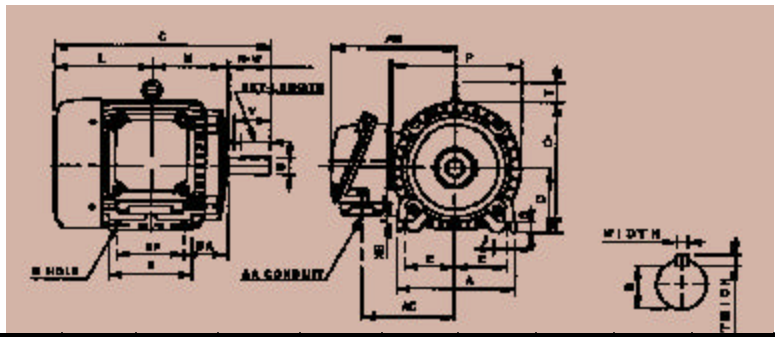
- HPE™ – High Pulse Endurance Wire
- Rugged Cast-Iron Construction
- Non-Sparking External Fan
- Non-Sparking Brass Flingers on Both Ends
- Oversized Cast-Iron Conduit Box
- Non-hygroscopic Insulation System
- Zn-Cd Plated Hardware
- Stainless Steel Breather/Drains with Bronze Filter
- Low Temperature Rise Operation
- Stainless Steel Rating Nameplate and CSA Label
- Bi-Directional Rotation
- KLIXON®<sup>1</sup> Temperature Limiting Device
- Performance Data per ANSI/IEEE Standard 112 Method B

TECO - Westinghouse Motor Company TEXP HE™ Motors are engineered to operate many types of machinery in diverse industrial environments.

The product dimensions listed are the TEXP HE™ product line standard designs. Do not use this information for construction unless certified.

<sup>1</sup> Trademark of Texas Instruments Incorporated.

# DIMENSIONS



Output (HP)			Frame Size	Mounting				A	B	C	D	G	J	L	M	O	P
2P	4P	6P		E	2F	H	BA										
1.5	1	0.75	143T	2.75	4.00	0.34	2.25	6.70	5.10	12.33	3.50	0.35	1.40	5.80	4.05	7.50	8.03
2	1.5/2	1	145T	2.75	5.00	0.34	2.25	6.70	5.90	13.32	3.50	0.35	1.40	6.35	4.55	7.50	8.03
3	3	1.5	182T	3.75	4.50	0.41	2.75	8.80	5.90	14.70	4.50	0.65	1.75	6.95	4.90	9.35	9.60
5	5	2	184T	3.75	5.50	0.41	2.75	8.80	6.90	15.75	4.50	0.65	1.75	7.50	5.41	9.35	9.60
7.5	7.5	3	213T	4.25	5.50	0.41	3.50	9.85	6.90	17.98	5.25	0.70	1.75	8.35	6.02	10.80	11.10
10	10	5	215T	4.25	7.00	0.41	3.50	9.85	8.35	19.47	5.25	0.70	1.75	9.10	6.77	10.80	11.10
15	15	7.5	254T	5.00	8.25	0.53	4.25	11.80	9.85	23.70	6.25	0.65	1.95	11.32	8.20	12.80	13.15
20	20	10	256T	5.00	10.00	0.53	4.25	11.80	11.80	25.43	6.25	0.65	1.95	12.18	9.05	12.80	13.15
-	25	15	284T	5.50	9.50	0.53	4.75	14.00	11.70	26.80	7.00	0.70	2.95	12.68	9.27	14.52	15.04
25	-	-	284TS	5.50	9.50	0.53	4.75	14.00	11.70	25.43	7.00	0.70	2.95	12.68	9.43	14.52	15.04
-	30	20	286T	5.50	11.00	0.53	4.75	14.00	13.20	28.30	7.00	0.70	2.95	13.42	10.02	14.52	15.04
30	-	-	286TS	5.50	11.00	0.53	4.75	14.00	13.20	26.93	7.00	0.70	2.95	13.42	10.18	14.52	15.04
-	40	25	324T	6.25	10.50	0.66	5.25	15.75	12.80	29.92	8.00	1.10	3.15	14.17	10.30	16.22	16.54
40	-	-	324TS	6.25	10.50	0.66	5.25	15.75	12.80	28.42	8.00	1.10	3.15	14.17	10.30	16.22	16.54
-	50	30	326T	6.25	12.00	0.66	5.25	15.75	14.35	31.42	8.00	1.10	3.15	14.92	11.04	16.22	16.54
50	-	-	326TS	6.25	12.00	0.66	5.25	15.75	14.35	29.92	8.00	1.10	3.15	14.92	11.04	16.22	16.54
-	60	40	364T	7.00	11.25	0.66	5.88	17.70	14.75	33.55	9.00	1.30	3.55	16.17	11.30	18.00	18.15
60	-	-	364TS	7.00	11.25	0.66	5.88	17.70	14.75	31.42	9.00	1.30	3.55	16.17	11.30	18.00	18.15
-	75	50	365T	7.00	12.25	0.66	5.88	17.70	14.75	33.55	9.00	1.30	3.55	15.67	11.79	18.00	18.15
75	-	-	365TS	7.00	12.25	0.66	5.88	17.70	14.75	31.42	9.00	1.30	3.55	15.67	11.79	18.00	18.15
-	-	60	404T	8.00	12.25	0.81	6.62	19.69	15.16	36.69	10.00	1.58	3.94	16.70	12.98	20.05	20.60
-	100	75	405T	8.00	13.75	0.81	6.62	19.69	16.73	38.19	10.00	1.58	3.94	17.45	13.73	20.05	20.60
100	-	-	405TS	8.00	13.75	0.81	6.62	19.69	16.73	35.19	10.00	1.58	3.94	17.45	13.73	20.05	20.60
-	125	100	444T	9.00	14.50	0.81	7.50	22.05	17.50	42.05	11.00	1.55	4.35	18.80	14.45	22.25	23.30
125	-	-	444TS	9.00	14.50	0.81	7.50	22.05	17.50	38.30	11.00	1.55	4.35	18.80	14.45	22.25	23.30
-	150	125	445T	9.00	16.50	0.81	7.50	22.05	19.50	44.05	11.00	1.55	4.35	19.80	15.45	22.25	23.30
150	-	-	445TS	9.00	16.50	0.81	7.50	22.05	19.50	40.30	11.00	1.55	4.35	19.80	15.45	22.25	23.30

Frame Size	Key				Keyseat R	Shaft Extension			Terminal Housing				Bearings		Approx Weight Lbs
	T	Width	Thick	Length		N-W	U	V	AA	AB	AC	XB	Drive End	Opposite Drive End	
143T	-	0.1880	0.1880	1.41	0.771	2.25	0.875	2.20	0.75	8.03	5.70	1.33	6205ZZ	6205ZZ	62
145T	-	0.1880	0.1880	1.41	0.771	2.25	0.875	2.20	0.75	8.03	5.70	1.33	6205ZZ	6205ZZ	70
182T	1.15	0.2500	0.2500	1.78	0.986	2.75	1.125	2.70	0.75	8.78	6.45	2.33	6306ZZ	6306ZZ	108
184T	1.15	0.2500	0.2500	1.78	0.986	2.75	1.125	2.70	0.75	8.78	6.45	2.33	6306ZZ	6306ZZ	120
213T	1.45	0.3120	0.3120	2.41	1.201	3.38	1.375	3.30	1.00	10.73	7.45	1.94	6308ZZ	6306ZZ	187
215T	1.45	0.3120	0.3120	2.41	1.201	3.38	1.375	3.30	1.00	10.73	7.45	1.94	6308ZZ	6306ZZ	211
254T	2.00	0.3750	0.3750	2.91	1.416	4.00	1.625	3.90	1.25	12.24	8.95	2.83	6309ZZ	6307ZZ	330
256T	2.00	0.3750	0.3750	2.91	1.416	4.00	1.625	3.90	1.25	12.24	8.95	2.83	6309ZZ	6307ZZ	376
284T	2.00	0.5000	0.5000	3.28	1.591	4.62	1.875	4.50	1.50	13.23	9.90	3.58	6311ZZ	6310ZZ	488
284TS	2.00	0.3750	0.3750	1.93	1.416	3.25	1.625	3.20	1.50	13.23	9.90	3.58	6211C3	6211C3	466
286T	2.00	0.5000	0.5000	3.28	1.591	4.62	1.875	4.50	1.50	13.23	9.90	3.58	6311ZZ	6310ZZ	530
286TS	2.00	0.3750	0.3750	1.93	1.416	3.25	1.625	3.20	1.50	13.23	9.90	3.58	6211C3	6211C3	502
324T	2.36	0.5000	0.5000	3.91	1.845	5.25	2.125	5.15	2.00	15.95	11.69	3.31	6312	6212	708
324TS	2.36	0.5000	0.5000	2.03	1.591	3.75	1.875	3.65	2.00	15.95	11.69	3.31	6312C3	6212C3	691
326T	2.36	0.5000	0.5000	3.91	1.845	5.25	2.125	5.15	2.00	15.95	11.69	3.31	6312	6212	781
326TS	2.36	0.5000	0.5000	2.03	1.591	3.75	1.875	3.65	2.00	15.95	11.69	3.31	6312C3	6212C3	766
364T	2.80	0.6250	0.6250	4.28	2.201	5.88	2.375	5.75	3.00	16.75	12.48	4.68	6313	6213	926
364TS	2.80	0.5000	0.5000	2.03	1.591	3.75	1.875	3.65	3.00	16.75	12.48	4.68	6312C3	6212C3	913
365T	2.80	0.6250	0.6250	4.28	2.201	5.88	2.375	5.75	3.00	16.75	12.48	4.68	6313	6213	1019
365TS	2.80	0.5000	0.5000	2.03	1.591	3.75	1.875	3.65	3.00	16.75	12.48	4.68	6312C3	6212C3	979
404T	2.80	0.7500	0.7500	5.65	2.450	7.25	2.875	6.50	3.00	20.49	15.44	4.33	6317	6313	1287
405T	2.80	0.7500	0.7500	5.65	2.450	7.25	2.875	6.50	3.00	20.49	15.44	4.33	6317	6313	1408
405TS	2.80	0.5000	0.5000	2.78	1.845	4.25	2.125	3.30	3.00	20.49	15.44	4.33	6313C3	6313C3	1349
444T	3.55	0.8750	0.8750	6.89	2.880	8.50	3.375	8.00	3.00	21.65	16.60	5.10	NU318	6318	1600
444TS	3.55	0.6250	0.6250	3.03	2.021	4.75	2.375	4.50	3.00	21.65	16.60	5.10	6313C3	6313C3	1560
445T	3.55	0.8750	0.8750	6.89	2.880	8.50	3.375	8.50	3.00	21.65	16.60	5.10	NU318	6318	1780
445TS	3.55	0.6250	0.6250	3.03	2.021	4.75	2.375	4.50	3.00	21.65	16.60	5.10	6313C3	6313C3	1600

Note: 1. Dimension D tolerance: +0.000 inch, -0.03 inch.  
2. Dimension U tolerance: +0.000 inch, -0.0005 inch.

3. Dimension R tolerance: +0.000 inch, -0.015 inch.  
4. Dimension V is the length of the straight part of the shaft.

# TYPICAL PERFORMANCE

HP	Full Load RPM	Frame Size	Efficiency (%)						Power Factor			Current			Torque				Rotor WR <sup>2</sup> lb-ft	NEMA Code Letter
			Full Load		3/4 Load		1/2 Load		Full Load (%)	3/4 Load (%)	1/2 Load (%)	Full Load (A)	At 208V (A)	Locked Rotor (A)	Full Load lb-ft	Locked Rotor %FLT	Pull Up %FLT	Break Down %FLT		
1	1730	143T	86.5	84.0	85.5	82.5	82.5	80.0	73.0	64.5	51.5	1.55	3.4	15.0	3.0	310	280	360	0.075	N
	1150	145T	85.5	82.5	84.0	81.5	82.5	80.0	66.0	57.0	44.5	1.75	3.8	15.0	4.6	250	220	300	0.122	N
	1730	143T	85.5	82.5	85.5	83.0	84.0	81.5	84.5	77.0	66.5	2.00	4.5	20.0	2.3	340	280	350	0.052	M
1.5	1730	145T	86.5	84.0	86.5	83.0	85.5	82.5	67.0	58.0	46.0	2.20	4.7	20.0	4.6	300	260	360	0.103	M
	1170	182T	86.5	84.0	85.0	82.5	82.5	80.0	67.0	58.0	46.0	2.50	5.5	20.0	6.7	210	190	350	0.317	M
	1715	145T	86.5	82.5	85.5	84.0	86.5	84.0	86.5	78.5	70.0	2.90	6.4	25.0	6.1	280	270	330	0.108	L
2	1715	145T	85.5	82.5	86.5	84.0	85.5	82.5	73.5	66.5	55.0	3.00	6.6	25.0	9.0	180	150	270	0.423	L
	1170	184T	87.5	85.5	86.5	84.0	84.0	81.5	84.0	75.0	66.5	3.00	6.6	25.0	9.0	180	150	270	0.423	L
	1715	145T	85.5	82.5	86.5	84.0	85.5	82.5	73.5	66.5	55.0	3.00	6.6	25.0	9.0	180	150	270	0.423	L
3	3490	182T	88.5	86.5	87.5	85.5	85.5	82.5	91.5	88.0	80.0	3.55	7.8	32.0	4.5	280	250	380	0.190	K
	1760	182T	89.5	87.5	88.5	86.5	86.5	84.0	82.5	77.0	63.5	3.90	8.6	32.0	8.9	220	180	360	0.312	K
	1170	213T	90.2	88.5	89.5	87.5	87.5	85.5	80.5	74.0	62.0	3.95	8.7	32.0	13.5	200	180	320	0.836	K
5	3450	184T	88.5	86.5	89.5	87.5	89.5	87.5	92.5	91.5	84.5	5.85	12.9	46.0	7.6	260	220	300	0.249	J
	1745	184T	88.5	86.5	89.5	87.5	88.5	86.5	85.5	81.5	71.0	6.35	14.0	46.0	15.0	220	170	320	0.422	J
	1170	215T	90.2	88.5	90.2	88.5	89.5	87.5	83.5	79.0	68.0	6.35	14.0	46.0	22.4	190	150	290	1.122	J
7.5	3500	213T	91.0	89.5	91.0	89.5	90.2	88.5	88.0	86.5	80.0	8.90	19.7	63.5	11.3	200	170	260	0.412	H
	1750	213T	91.0	89.5	91.0	89.5	90.2	88.5	87.5	83.5	74.5	8.95	19.8	63.5	22.5	220	190	270	0.731	H
	1170	254T	91.7	90.2	91.0	89.5	90.5	88.8	81.5	76.0	65.0	9.55	21.1	63.5	33.7	240	215	270	2.158	H
10	3490	215T	90.2	88.5	91.0	89.5	91.0	89.5	89.5	88.5	83.0	11.80	26.1	81.0	15.0	200	160	250	0.512	H
	1745	215T	90.2	88.5	91.0	89.5	91.0	89.5	88.5	87.0	79.0	11.95	26.4	81.0	30.0	200	175	250	0.924	H
	1175	256T	92.4	91.0	91.7	90.2	91.0	89.5	80.5	75.0	64.0	12.80	28.2	81.0	44.6	260	225	300	2.863	H
15	3525	254T	91.7	90.2	92.0	90.6	92.0	90.6	92.5	91.0	87.0	16.85	37.2	116.0	22.3	210	180	270	1.088	G
	1765	254T	93.0	91.7	92.4	91.0	92.4	91.0	88.5	86.0	78.0	17.30	38.1	116.0	44.5	245	190	280	2.172	G
	1175	284T	92.4	91.0	92.4	91.0	92.4	91.0	83.0	79.0	70.0	18.60	40.9	116.0	66.8	250	180	250	6.800	G
20	3520	256T	92.4	91.0	92.8	91.5	92.8	91.5	92.5	92.5	89.5	22.25	49.2	145.0	29.8	210	180	260	1.407	G
	1765	256T	93.0	91.7	93.2	91.9	92.8	91.5	89.5	88.0	81.0	22.80	50.5	145.0	59.5	230	180	260	2.741	G
	1170	286T	92.4	91.0	92.4	91.0	92.4	91.0	83.5	82.0	74.5	24.50	54.0	145.0	89.7	200	170	230	7.961	G
25	3545	284TS	93.0	91.7	92.5	91.1	92.0	90.6	92.0	92.0	89.0	27.75	61.4	182.5	37.0	175	135	250	2.595	G
	1765	284T	93.6	92.4	93.6	92.4	93.0	91.7	87.5	85.0	81.0	29.00	64.0	182.5	74.2	210	165	240	4.410	G
	1170	324T	93.0	91.7	93.5	92.3	93.5	92.3	82.0	80.0	73.0	31.10	68.8	182.5	112.0	200	170	220	10.887	G
30	3545	286TS	93.0	91.7	93.5	92.3	93.5	92.3	91.5	91.0	87.5	35.50	74.0	217.5	44.4	175	140	240	2.930	G
	1765	286T	93.6	92.4	93.0	91.7	93.0	91.7	88.0	86.0	81.0	34.55	76.6	217.5	89.0	230	170	250	5.044	G
	1175	326T	93.6	92.4	93.8	92.7	93.0	91.7	83.0	80.0	72.0	36.65	81.0	217.5	134.0	210	180	230	12.372	G
40	3550	324TS	94.1	93.0	93.0	91.7	93.0	91.7	91.5	89.0	86.0	44.00	97.3	290.0	59.0	150	130	240	3.590	G
	1770	324T	94.1	93.0	94.5	93.6	94.4	93.4	89.0	88.0	84.0	45.25	100.0	290.0	119.0	220	170	240	8.624	G
	1180	364T	94.1	93.0	94.3	93.2	93.8	92.7	85.5	84.0	77.0	47.10	104.0	290.0	178.0	200	180	230	17.936	G
50	3550	326TS	94.1	93.0	93.8	92.7	93.7	92.5	91.5	89.0	88.0	55.00	122.0	362.5	74.0	150	130	240	4.488	G
	1770	326T	94.5	93.6	95.0	94.1	95.0	94.1	88.5	87.0	83.0	56.50	124.0	362.5	148.0	240	180	250	10.089	G
	1180	365T	94.1	93.0	94.1	93.0	93.6	92.4	86.0	83.5	78.0	58.50	129.0	362.5	222.0	200	170	220	20.006	G
60	3550	364TS	94.5	93.6	95.0	94.1	94.5	93.6	92.5	92.0	88.5	65.00	143.0	435.0	88.5	145	130	240	7.355	G
	1775	364T	95.0	94.1	95.0	94.1	94.2	93.1	86.0	84.0	78.0	69.50	154.0	435.0	178.0	200	170	230	11.739	G
	1175	404T	94.5	93.6	95.0	94.1	94.5	93.6	86.0	83.5	78.0	70.00	154.0	435.0	268.0	220	200	250	28.126	G
75	3555	365TS	95.0	94.1	95.0	94.1	95.0	94.1	93.0	92.0	89.0	80.00	176.0	542.5	110.0	145	130	250	9.026	G
	1775	365T	95.4	94.5	95.4	94.5	95.4	94.5	86.5	84.5	77.0	86.00	189.0	542.5	221.0	215	175	230	14.624	G
	1175	405T	94.5	93.6	95.0	94.1	95.0	94.1	86.5	85.0	80.0	86.50	192.0	542.5	335.0	220	200	250	32.453	G
100	3560	405TS	95.4	94.5	95.4	94.5	95.0	94.1	90.0	89.0	86.0	110.00	242.0	725.0	147.0	140	125	270	10.737	G
	1775	405T	95.4	94.5	95.4	94.5	95.0	94.1	84.0	82.5	76.5	118.00	261.0	725.0	295.0	240	200	250	25.778	G
	1180	444T	94.5	93.6	94.1	93.0	93.0	91.7	83.5	80.5	73.5	119.00	260.0	725.0	445.0	130	115	210	50.000	G
125	3566	444TS	95.0	94.1	94.5	93.6	93.6	92.4	90.0	86.5	81.0	137.00	300.0	907.0	184.0	100	90	210	17.000	G
	1780	444T	95.4	94.5	95.0	94.1	94.1	93.0	87.0	85.0	80.0	141.00	310.0	907.0	368.0	120	105	210	45.000	G
	1181	445T	95.0	94.1	94.5	93.6	93.6	92.4	85.5	82.5	75.0	144.00	315.0	907.0	555.0	130	115	210	73.000	G
150	3570	445TS	95.4	94.5	95.0	94.1	94.1	93.0	90.0	86.5	81.0	164.00	-	1085.0	220.0	100	90	210	22.000	G
	1783	445T	95.4	94.5	95.0	94.1	94.1	93.0	87.0	85.0	80.0	169.00	-	1085.0	441.0	120	105	210	51.500	G

- Note: 1. The above are typical values based on test according to ANSI/IEEE standard 112-1991 Method B.  
 2. Breakdown and locked rotor torque are shown as average expected values.  
 3. Efficiency, power factor, speed and torque are the same for other voltages.  
 4. Current based on 460V. For 575V multiply by 0.8.  
 5. Data is subject to change without notice.



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