

CAST IRON DESIGN C MOTOR

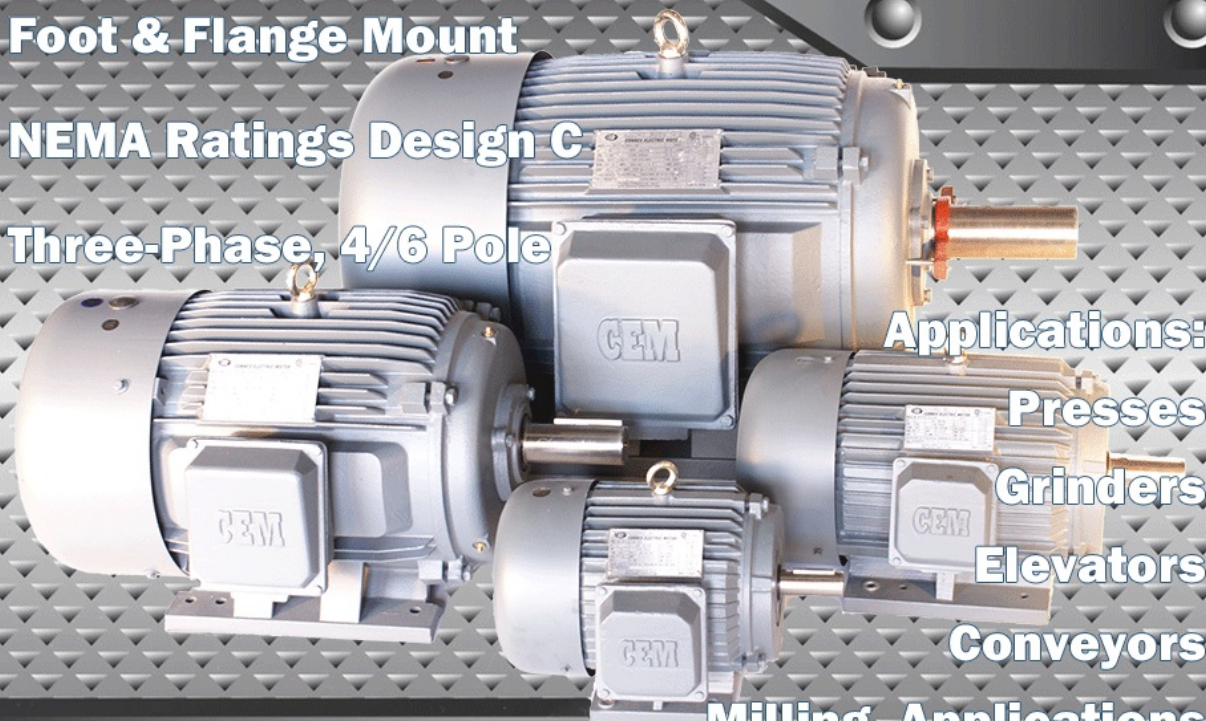
C E M™

General Purpose

Foot & Flange Mount

NEMA Ratings Design C

Three-Phase, 4/6 Pole



Applications:

Presses

Grinders

Elevators

Conveyors

Milling Applications

Packaging Equipment

And Many More

High Efficiency Cast Iron Motors



CONNEX ELECTRIC MOTORS

Division of Connex Ind. Corp.

4975 Avalon Ridge Parkway, Suite 200
Norcross, GA 30071, USA



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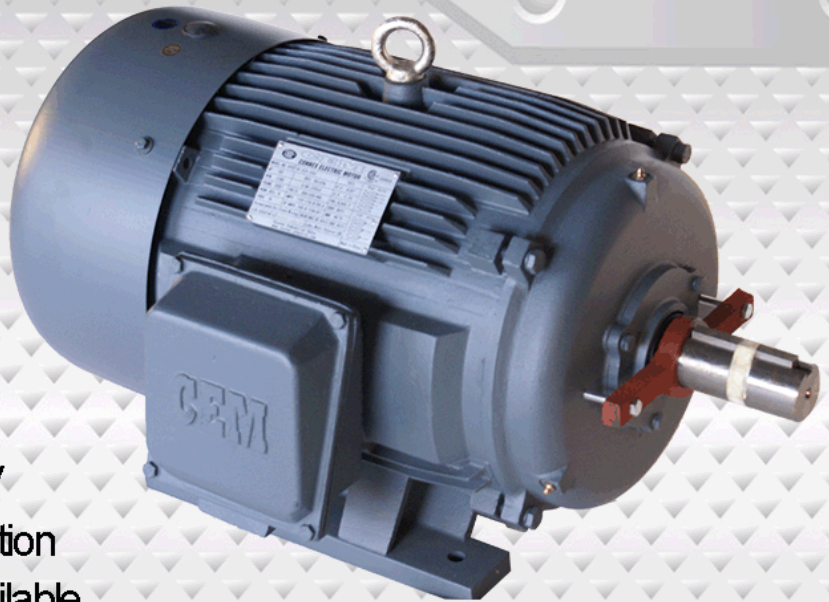


CEM™

143T Through 449T
EISA Compliant
TEFC Cast Iron
Inverter Rated
1-300HP

Standard Features:

Continuous duty
40°C Ambient Rating
Three Phase, 50/60Hz
Voltage: 208-230/460V
Premium class F insulation
C and D flange kits available
Oversized bearings on both ends
F1 mounted T-Box (F2 mounted capable)
Synchronous speed: 1800, 1200 RPM
Stainless steel nameplate with laser etching
Efficiency meets or exceeds '92 EPACT requirements
Non-Spark, Non-Noise, impact resistant & super cooling
Service factor: 1.25 up to 100HP, 1.15 from 125HP and up
TEFC (IP55 Protection) water tight and dust tight enclosure
Design C meets NEMA MG-1





Cast Iron Design C Motor Performance Data

PERFORMANCE DATA

HP	Frame	Full Load RPM	Volt Code	Efficiency %			Power Factor		Amps @ 60Hz		TORQUE			Approx Weight (lbs)
				100% F. L.	75% F. L.	50% F. L.	100% F. L.	75% F. L.	FLA 230V/460V	460V L.R. AMPS	FULL LOAD LBS-FT	LOCKED ROTOR %	BREAK DOWN %	
1	143T	1760	M	83	80	76	69	59	3.8/1.9	15	3.0	290	300	40
	145T	1150	M	80	78	72	62	52	3.4/1.7	15	4.6	260	320	48
1 1/2	145T	1740	M	84	83	79	71	62	4.8/2.4	20	4.5	290	310	48
	182T	1160	M	86	84	80	67	57	4.6/2.3	20	6.8	255	350	85
2	145T	1740	L	84	84	84	77	70	5.8/2.9	25	6.1	290	300	51
	184T	1160	L	87	85	81	67	57	6.0/3.0	25	9.1	255	310	93
3	182T	1770	K	88	87	84	70	60	9.2/4.6	32	8.8	270	320	89
	213T	1170	K	88	87	85	74	67	8.8/4.4	32	13.5	250	320	136
5	184T	1760	J	88	87	85	74	64	15.3/7.65	46	14.8	255	320	101
	215T	1170	J	88	87	85	74	65	14.6/7.3	46	22.5	250	290	162
7 1/2	213T	1760	H	90	89	87	74	65	21/10.5	63	22.0	250	280	136
	254T	1170	H	90	89	88	74	66	21/10.5	63	33.7	225	290	249
10	215T	1760	H	90	90	89	74	68	28/14	81	30.0	250	280	160
	256T	1180	H	90	90	89	75	69	28/14	81	44.9	225	270	274
15	254T	1760	G	91	91	91	81	75	38/19	116	44.8	225	270	270
	284T	1180	G	90	90	90	80	74	42/21	116	67.1	210	250	350
20	256T	1770	G	91	91	91	85	80	49/24.5	145	59.8	200	255	306
	286T	1180	G	90	90	90	82	76	54/27.0	145	89.4	200	260	372
25	284T	1770	G	92	93	92	85	80	60.4/30.2	182	74.3	200	250	372
	324T	1180	G	92	92	91	82	77	66/33	182	111.4	200	245	508
30	286T	1770	G	92	92	92	86	81	72/36	217	89.1	200	260	387
	326T	1180	G	92	92	91	81	76	78/39	217	133.6	200	240	519
40	324T	1780	G	93	92	91	85	81	96/48	290	118.9	200	265	521
	364T	1180	G	93	93	93	83	80	100/50.5	290	178.1	200	230	697
50	326T	1770	G	93	93	93	87	84	118/59	362	148.4	200	265	565
	365T	1180	G	93	93	93	84	80	126/63	362	222.6	200	240	752
60	364T	1780	G	94	93	93	87	84	142/71	435	177.6	200	255	730
	404T	1170	G	94	94	93	86	83	146/73	435	266.0	200	250	950
75	365T	1780	G	94	94	93	87	84	176/88	542	222.0	200	260	774
	405T	1180	G	94	94	93	86	83	182/91	542	336.0	200	245	1078
100	405T	1780	G	95	94	94	88	85	228/114	725	295.1	200	250	1063
	444T	1180	G	94	94	93	84	80	242/121	725	445.2	200	250	1315
125	444T	1780	G	95	94	94	89	88	288/144	907	368.9	200	245	1364
	445T	1180	G	94	94	94	87	84	296/148	907	556.5	200	245	1443
150	445T	1780	G	95	95	94	89	88	344/172	1085	442.7	200	245	1694
	447T	1180	G	95	95	94	88	85	352/176	1085	667.8	200	230	1678
200	447T	1780	G	95	95	94	89	88	458/229	1450	590.3	200	250	1782
	449T	1180	G	95	95	94	88	85	224	1450	890	200	230	2024
250	449T	1780	G	95	95	94	87	86	283	1825	738.0	200	230	2120

Cast Iron Design C Motor Dimensional Data



DIMENSIONAL DATA

Frame	Mounting					Conduit Box			Motor Dimensions						Keyseat				DE/ODE Bearings			
	D	E	2F	A	B	BA	H	AB	AA	C	N	AJ	AK	O	P	T	N-W	U		R	S	ES
143T	3.50	2.75	4.00	7.00	5.20	2.25	0.34	6.10	0.75	12.60	2.12	5.88	4.50	7.10	7.10	0.00	2.25	0.875	0.771	0.188	1.410	6205/6205
145T	3.50	2.75	5.00	7.00	6.20	2.25	0.34	6.10	0.75	13.60	2.12	5.88	4.50	7.10	7.10	0.00	2.25	0.875	0.771	0.188	1.410	6205/6205
182T	4.50	3.75	4.50	9.50	7.30	2.75	0.41	7.50	0.75	16.10	2.62	7.25	8.50	9.10	9.10	1.60	2.75	1.125	0.986	0.250	1.780	6306/6306
184T	4.50	3.75	5.50	9.50	8.30	2.75	0.41	7.50	0.75	17.10	2.62	7.25	8.50	9.10	9.10	1.60	2.75	1.125	0.986	0.250	1.780	6306/6306
213T	5.25	4.25	5.50	11.00	7.87	3.50	0.41	8.30	1.00	18.90	3.12	7.25	8.50	10.50	10.50	1.90	3.38	1.375	1.201	0.312	2.410	6308/6308
215T	5.25	4.25	7.00	11.00	9.37	3.50	0.41	8.30	1.00	20.40	3.12	7.25	8.50	10.50	10.50	1.90	3.38	1.375	1.201	0.312	2.410	6308/6308
254T	6.25	5.00	8.25	13.00	12.20	4.25	0.53	10.10	1.25	25.00	3.75	7.25	8.50	13.00	13.00	2.20	4.00	1.625	1.416	0.375	2.910	6309/6309
256T	6.25	5.00	10.00	13.00	13.00	4.25	0.53	10.10	1.25	26.00	3.75	7.25	8.50	13.00	13.00	2.20	4.00	1.625	1.416	0.375	2.910	6309/6309
284T	7.00	5.50	9.50	14.00	13.20	4.75	0.53	11.30	1.50	28.10	4.38	9.00	10.50	14.50	14.50	2.20	4.62	1.875	1.591	0.500	3.280	6311/6311
284TS	7.00	5.50	9.50	14.00	13.20	4.75	0.53	11.30	1.50	26.70	3.00	9.00	10.50	14.50	14.50	2.20	3.25	1.625	1.416	0.375	1.910	6311/6311
286T	7.00	5.50	11.00	14.00	13.20	4.75	0.53	11.30	1.50	28.10	4.38	9.00	10.50	14.50	14.50	2.20	4.62	1.875	1.591	0.500	3.280	6311/6311
286TS	7.00	5.50	11.00	14.00	13.20	4.75	0.53	11.30	1.50	26.70	3.00	9.00	10.50	14.50	14.50	2.20	3.25	1.625	1.416	0.375	1.910	6311/6311
324T	8.00	6.25	10.50	15.50	14.70	5.25	0.66	12.30	2.00	31.30	5.00	11.00	12.50	15.90	15.90	2.60	5.25	2.125	1.845	0.500	3.910	6312/6312
324TS	8.00	6.25	10.50	15.50	14.70	5.25	0.66	12.30	2.00	29.80	3.50	11.00	12.50	15.90	15.90	2.60	3.75	1.875	1.591	0.500	2.030	6312/6312
326T	8.00	6.25	12.00	15.50	14.70	5.25	0.66	12.30	2.00	31.30	5.00	11.00	12.50	15.90	15.90	2.60	5.25	2.125	1.845	0.500	3.910	6312/6312
326TS	8.00	6.25	12.00	15.50	14.70	5.25	0.66	12.30	2.00	29.80	3.50	11.00	12.50	15.90	15.90	2.60	3.75	1.875	1.591	0.500	2.030	6312/6312
364T	9.00	7.00	11.25	17.10	15.40	5.88	0.66	14.60	3.00	33.50	5.62	11.00	12.50	18.10	18.10	2.60	5.88	2.375	2.021	0.625	4.280	6313/6313
364TS	9.00	7.00	11.25	17.10	15.40	5.88	0.66	14.60	3.00	31.40	3.50	11.00	12.50	18.10	18.10	2.60	4.75	1.875	1.591	0.500	2.030	6313/6313
365T	9.00	7.00	12.25	17.10	15.40	5.88	0.66	14.60	3.00	33.50	5.62	11.00	12.50	18.10	18.10	2.60	5.88	2.375	2.021	0.625	4.280	6313/6313
365TS	9.00	7.00	12.25	17.10	15.40	5.88	0.66	14.60	3.00	31.40	3.50	11.00	12.50	18.10	18.10	2.60	4.75	1.875	1.591	0.500	2.030	6313/6313
404T	10.00	8.00	12.25	19.30	17.90	6.62	0.81	15.60	3.00	38.20	7.00	11.00	12.50	19.80	19.80	3.00	7.25	2.875	2.450	0.750	5.650	6315/6314
404TS	10.00	8.00	12.25	19.30	17.90	6.62	0.81	15.60	3.00	35.20	4.00	11.00	12.50	19.80	19.80	3.00	4.25	2.125	1.845	0.500	2.780	6315/6314
405T	10.00	8.00	13.75	19.30	17.90	6.62	0.81	15.60	3.00	38.20	4.00	11.00	12.50	19.80	19.80	3.00	7.25	2.875	2.450	0.750	5.650	6315/6314
405TS	10.00	8.00	13.75	19.30	17.90	6.62	0.81	15.60	3.00	35.20	4.00	11.00	12.50	19.80	19.80	3.00	4.25	2.125	1.845	0.500	2.780	6315/6314
444T	11.00	9.00	14.50	21.70	22.90	7.50	0.81	16.60	3.00	44.30	4.50	14.00	16.00	22.10	22.10	3.00	8.50	3.375	2.880	0.875	6.910	6314/6314
444TS	11.00	9.00	14.50	21.70	22.90	7.50	0.81	16.60	3.00	40.60	8.25	14.00	16.00	22.10	22.10	3.00	4.75	2.375	2.021	0.625	3.030	6314/6314
445T	11.00	9.00	16.50	21.70	26.40	7.00	0.81	16.60	3.00	47.80	4.50	14.00	16.00	22.10	22.10	3.00	8.50	3.375	2.880	0.875	6.910	6315/6318
445TS	11.00	9.00	16.50	21.70	26.40	7.00	0.81	16.60	3.00	44.10	8.25	14.00	16.00	22.10	22.10	3.00	4.75	2.375	2.021	0.625	3.030	6314/6314
447T	11.00	9.00	20.00	21.70	26.40	7.50	0.81	16.60	3.00	47.80	8.25	14.00	16.00	22.10	22.10	3.00	8.50	3.375	2.880	0.875	6.910	6315/6318
447TS	11.00	9.00	20.00	21.70	26.40	7.50	0.81	16.60	3.00	44.10	8.25	14.00	16.00	22.10	22.10	3.00	4.75	2.375	2.021	0.625	3.030	6314/6314
449T	11.00	9.00	25.00	21.70	31.40	7.50	0.81	16.60	3.00	52.80	8.25	14.00	16.00	22.10	22.10	3.00	8.50	3.375	2.880	0.875	6.910	6315/6318
449TS	11.00	9.00	25.00	21.70	31.40	7.50	0.81	16.60	3.00	49.10	8.25	14.00	16.00	22.10	22.10	3.00	4.75	2.375	2.021	0.625	3.030	6314/6314

