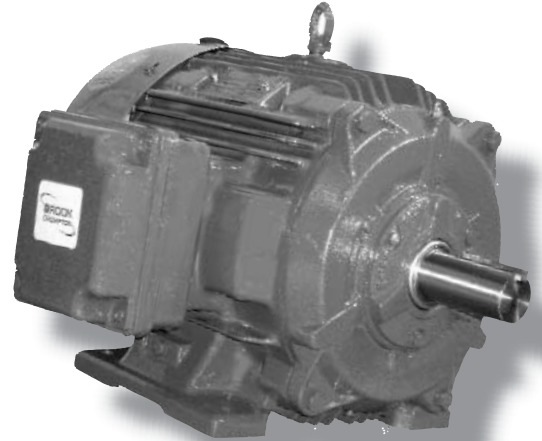


CAST IRON

NEMA MOTORS

Heavy Duty Cast Iron construction for use on severe duty applications Frames 143-447T

Brook Crompton has manufactured these motors with North American industry in mind and the low maintenance cost make them the obvious choice.

**Features:**

- Enclosure IP Code: Totally Enclosed IP55
- Warranty 24 months
- Nameplate Certifications: CSA ~ C/US, CE, Class 1 Div 2, Groups A,B,C&D Temperature Class T3

Electrical Characteristics:

- Phase 3
- Frequency 60hz
- F1 Conduit box location
- Ambient 40 degrees C
- Class F Insulation
- Service Factor 1.15
- Class B Temperature Rise
- Inverter Duty suitable for MG1 Part 31 rating for use with VFD - 5:1 constant

torque and 10:1 variable torque speed range

Application Information:

- The Brook Crompton Cast Iron design motor is supplied painted in a Synthetic Enamel on an Alkyd High build primer suitable for 200 hours salt spray life tested in accordance with ASTM B117
- Motors can be supplied as 50 hz with voltages and approvals to suit export
- By changing the position of the rotor F2 mounting arrangements can be attained
- Materials: Cast Iron frame, endshields and oversize conduit box, Sheet Metal Fan Cover

Construction features:

- NEMA C face available
- Gasketed conduit box for hose proof protection
- V Ring slinger on shaft
- Double sealed bearings up to 215T frame, regreasable bearings for 254T and larger
- Altitude 3300ft (1000m)
- Shaft Material: 1045 carbon steel
- Stainless Steel Nameplate
- NPT threaded Terminal Box
- Grounding Terminal on frames and inside conduit box

DOE No. **CC047A**

OUTPUT		RPM FL	FRAME	FL AMPS			EFFICIENCY %			POWER FACTOR			TORQUE			LOCKED ROTOR AMPS			NEMA CODE	INERTIA WK ² lb-ft ²	EST WT (lbs)
kW	HP			230V	460V	575V	FL	3/4 FL	1/2 FL	FL	3/4 FL	1/2 FL	lb-ft	%	%	230V	460V	575V			
0.55	0.75	1140	143T	3.4	1.7	1.4	72.0	69.0	64.0	0.57	0.50	0.40	3.50	240	280	15	7.5	6	J	0.13	54
		3400	143T	3.1	1.6	1.3	75.5	73.0	71.0	0.80	0.75	0.70	1.50	300	350	24	12	10	L	0.03	54
		1710	143T	3.3	1.7	1.4	82.5	81.0	77.0	0.71	0.60	0.40	3.10	275	300	24	12	10	L	0.13	54
0.75	1	1150	145T	4.0	2.0	1.6	80.0	79.0	76.0	0.60	0.50	0.40	4.60	250	270	24	12	10	L	0.16	60
		3400	143T	4.1	2.1	1.7	82.5	82.5	82.0	0.82	0.80	0.70	2.30	275	300	36	18	14.5	L	0.05	54
		1710	145T	4.6	2.3	1.9	84.0	84.0	83.0	0.72	0.65	0.60	4.60	230	280	36	18	16	L	0.13	60
1.1	1.5	1145	182T	5.0	2.5	2.0	85.5	85.5	85.0	0.65	0.60	0.50	6.90	220	250	36	18	16	L	0.27	88
		3400	145T	5.4	2.7	2.2	84.0	84.0	84.0	0.84	0.80	0.70	3.10	275	300	50	25	20	L	0.06	60
		1710	145T	5.8	2.9	2.3	84.0	84.0	83.0	0.77	0.70	0.60	6.10	240	280	50	25	20	L	0.16	60
1.5	2	1145	184T	6.0	3.0	2.4	86.5	86.5	86.0	0.72	0.65	0.60	9.20	220	250	50	25	20	L	0.34	88
		3480	182T	7.2	3.6	2.9	85.5	85.5	85.0	0.89	0.87	0.85	4.50	275	300	64	32	25	K	0.14	88
		1740	182T	7.6	3.8	3.0	87.5	87.5	87.0	0.83	0.76	0.64	9.10	230	280	64	32	25	K	0.27	88
2.2	3	1150	213T	8.4	4.2	3.4	87.5	87.5	87.0	0.75	0.67	0.60	13.70	220	250	64	32	25	K	0.88	172
		3480	184T	12.0	6.0	4.8	87.5	87.5	87.0	0.89	0.87	0.85	7.50	275	300	92	46	37	J	0.18	88
		1740	184T	12.8	6.4	5.1	87.5	87.5	87.0	0.83	0.78	0.67	15.10	230	280	92	46	37	J	0.34	88
3.7	5	1160	215T	14.2	7.1	5.7	87.5	87.5	87.0	0.75	0.67	0.60	22.60	210	240	92	46	37	J	0.97	196
		3480	213T	17.2	8.6	6.9	88.5	88.5	88.0	0.90	0.88	0.86	11.30	210	240	126	63	50	H	0.39	172
		1740	213T	18.4	9.2	7.4	89.5	89.5	89.0	0.84	0.81	0.74	22.60	210	240	126	63	50	H	0.88	172
5.5	7.5	1164	254T	20.0	10.0	8.0	89.5	86.5	83.5	0.80	0.76	0.68	33.27	200	250	126	63	50	H	1.27	405
		3480	215T	23.4	11.7	9.4	89.5	89.5	89.0	0.90	0.88	0.86	15.10	210	240	162	81	65	H	0.43	196
		1750	215T	25.0	12.5	10.0	89.5	89.5	89.0	0.84	0.81	0.74	30.00	210	240	162	81	65	H	0.97	196
7.5	10	1170	256T	27.5	13.8	11.0	89.5	90.2	89.0	0.80	0.76	0.68	45.14	200	250	162	81	65	H	2.73	453
		3504	254T	35.0	17.5	14.0	90.2	89.5	88.0	0.88	0.86	0.78	22.10	250	300	232	116	92.8	G	0.77	405
		1752	254T	35.0	17.5	14.0	91.0	91.0	89.5	0.84	0.82	0.74	44.21	200	250	232	116	92.8	G	2.14	405
11	15	1170	284T	37.5	18.8	15.0	90.2	90.2	89.0	0.80	0.76	0.68	66.21	200	250	232	116	92.8	G	3.80	563
		3504	256T	47.5	23.8	19.0	90.2	90.2	89.0	0.88	0.86	0.79	30.50	250	300	290	145	116	G	1.01	453
		1752	256T	50.0	25.0	20.0	91.0	91.0	89.5	0.84	0.83	0.75	60.29	200	250	290	145	116	G	2.79	453
15	20	1170	286T	52.5	26.3	21.0	90.2	91.0	89.5	0.80	0.73	0.68	90.28	225	275	290	145	116	G	6.88	607
		3504	284TS	57.5	28.8	23.0	91.0	91.0	89.5	0.88	0.86	0.79	37.18	275	325	365	182.5	146	G	1.25	563
		1770	284T	60.0	30.0	24.0	92.4	91.7	90.0	0.84	0.80	0.72	73.60	200	250	365	182.5	146	G	4.81	563
18.5	25	1170	324T	60.0	30.0	24.0	91.7	91.7	90.0	0.84	0.82	0.73	111.35	200	250	365	182.5	146	G	10.03	810
		3504	286TS	65.0	32.5	26.0	91.0	91.0	89.5	0.92	0.90	0.84	44.21	275	325	435	217.5	174	G	2.61	607
		1770	286T	70.0	35.0	28.0	92.4	92.4	91.0	0.86	0.84	0.77	87.53	200	250	435	217.5	174	G	5.64	607
22	30	1170	326T	72.5	36.3	29.0	91.7	92.4	91.0	0.84	0.82	0.78	132.40	200	250	435	217.5	174	G	12.10	843
		3528	324TS	92.5	46.3	37.0	91.7	91.7	90.0	0.90	0.89	0.87	59.88	200	250	580	290	232	G	4.75	810
		1770	324T	90.0	45.0	36.0	93.0	93.0	91.0	0.89	0.86	0.78	119.36	250	300	580	290	232	G	9.61	810
30	40	1176	364T	95.0	47.5	38.0	93.0	93.0	91.0	0.85	0.82	0.73	179.64	200	250	580	290	232	G	21.25	990
		3540	326TS	112.5	56.3	45.0	92.4	92.4	91.0	0.90	0.89	0.87	73.60	200	250	725	362.5	290	G	5.28	843
		1776	326T	112.5	56.3	45.0	93.0	93.0	91.0	0.89	0.86	0.78	146.70	250	300	725	362.5	290	G	15.66	843
37	50	1176	365T	120.0	60.0	48.0	93.0	93.0	92.0	0.84	0.81	0.72	221.56	250	300	725	362.5	290	G	25.75	1087
		3546	364TS	130.0	65.0	52.0	93.0	93.0	91.0	0.94	0.92	0.88	89.37	225	275	870	435	348	G	11.09	990
		1776	364T	135.0	67.5	54.0	93.6	93.6	92.0	0.89	0.86	0.78	178.43	250	300	870	435	348	G	18.56	990
45	60	1164	405T	142.5	71.3	57.0	93.6	93.0	91.0	0.85	0.81	0.73	272.24	200	250	870	435	348	G	28.5	1410
		3546	365TS	157.5	78.8	63.0	93.0	93.0	91.0	0.94	0.92	0.88	109.22	175	225	1085	542.5	434	G	16.55	1087
		1770	365T	165.0	82.5	66.0	94.1	94.1	92.0	0.89	0.86	0.82	218.82	200	250	1085	542.5	434	G	20.46	1087
55	75	1164	405T	175.0	87.5	70.0	93.6	93.0	91.0	0.84	0.80	0.72	332.74	200	250	1085	542.5	434	G	34.25	1410
		3546	405TS	215.0	107.5	86.0	93.6	93.0	91.0	0.94	0.92	0.88	148.94	150	200	1450	725	580	G	20	1410
		1770	405T	232.5	116.3	93.0	94.5	94.1	92.0	0.86	0.82	0.74	298.39	200	250	1450	725	580	G	24.5	1410
75	100	1170	444T	238	119	95	94.1	93.6	93	0.79	0.75	0.67	451.35	200	250	1450	725	580	G	14.12	2873
		3550	444T	266	133	106	94.5	94.1	93.5	0.88	0.84	0.76	184.46	150	200	1815	907.5	726	G	5.82	2873
		1775	444T	266	133	106	94.5	94.1	93.5	0.88	0.84	0.76	368.91	175	225	1815	907.5	726	G	11.62	2873
93	125	1170	447T	280	140	112	94.1	93.6	93	0.83	0.79	0.71	559.67	200	250	1815	907.5	726	G	17	3036
		3550	445T	312	156	125	94.5	94.1	93.5	0.89	0.85	0.77	218.17	150	200	2170	1085	868	G	5.82	3036
		1775	445T	318	159	127	95	94.5	94	0.87	0.83	0.75	436.35	175	225	2170	1085	868	G	11.62	3036
110	150	1170	447T	340	170	136	95	94.5	94	0.81	0.77	0.69	661.98	200	250	2170	1085	868	G	18.98	3036
		3550	447T	424	212	170	95	94.5	94	0.89	0.85	0.77	297.51	150	200	2900	1450	1160	G	6.98	3036
		1775	447T	432	216	173	95	94.5	94	0.87	0.83	0.75	595.02	175	225	2900	1450	1160	G	13.98	3036

