

## 1HP to 300HP NEMA Design C EPACT Efficiency NEMA 12-11 TEFC Motors Cast Iron Construction



### Applications:

General purpose use on conveyors, compressors, pumps, fans, blowers and other industrial and process machinery working in wet and dirty environments. Max Motion Epact high efficiency motors offer even more return on your investment when used in high cycling and long running time applications.

### Features:

- **Design** - NEMA standard MG-1, Design C Meets MG-1 Part 31
- **Agency listings and standards** - NEMA, IEEE, CSA, CSAus, IEC, CE, NRCan.
- **Electrical Supply** - At 60Hz: 575V and 208-230/416-480V dual rated for 50Hz: 190/380-415, Frame 445T+ are only 460V or 575V.
- **Voltage and Frequency Variation** - +/- 10% Voltage (-5@208V & 416V, and +5%@480V and +/- frequency)
- **Windings** - Highest Quality Enamel coated Corona resistant inverter duty magnet wire. VPI with additional dip and bake.
- **Bearings** - 143T to 215T are double sealed and grease filled, 254T and larger are regreasable with brass grease nipples and retaining bearing caps.
- **Bearing lubricant** - Frame 143T to 215T is lithium grease, -30 Deg C to 110 Deg C Amb. Frames 254T and larger are long life Mobil Polyrex EM, -29 Deg C to 177 Deg C.
- **Enclosure Protection** - Totally Enclosed Fan Cooled meeting IEC standard Ip55. Factory Certified Division 2 Class I Groups A,B,C,D Class II Groups F,G. Meets Temp Code T2B.
- **Conduit Box** - Oversize cast iron diagonally split and can be rotated in 90 Deg steps. Lead separator gasket to seal conduit box from frame and gasketed cover. Grounding terminal inside conduit box and threaded conduit entry.
- **Inverter Duty** - Suitable for Inverter application at 230V, 460V, and 575V for speed ranges of 10:1 constant torque and 20:1 variable torque.
- **Nameplate** - Corrosion resistant stainless steel showing all data, connection diagrams and certifications.
- **Drain Plugs** - Located at the lowest point of each end bracket.
- **Warranty** - 30 months from installation or 36 months from shipment whichever is first.

# 1HP to 250HP NEMA Design C EPACT Efficiency NEMA 12-11 TEFC Motors Cast Iron Construction

**Max Motion Series NEMA EPACT Efficient Performance Data\***

HP	CATALOGUE NUMBER MPC = 575 MQC = 2X4	FL RPM	FRAME	Data at 60Hz							NET WT. LBS	DE BRG	ODE BRG	C DIA. IN INCHES
				FLA 230V	FLA 460V	L.R. 460V	FLA 575V	L.R. 575V	EFF.%	CODE				
1	2W	1740	143T	3.3	1.65	15	1.32	12	82.5	M	40	6205	6205	12.6
	3W	1155	145T	3.6	1.8	15	1.44	12	80	M	48	6205	6205	12.6
1.5	7W	1740	145T	4.4	2.2	20	1.76	16	84	M	48	6205	6205	13.6
	8W	1165	182T	5	2.5	20	2	16	85.5	M	85	6306	6306	16.1
2	12W	1720	145T	5.6	2.8	25	2.24	20	84	L	51	6205	6205	13.6
	13W	1170	184T	6.2	3.1	25	2.48	20	86.5	L	93	6205	6205	17.1
3	17W	1760	182T	9.2	4.6	32	3.7	26	87.5	K	89	6306	6306	17.1
	18W	1170	213T	8.8	4.4	32	3.52	26	87.5	K	136	6308	6308	18.9
5	22W	1760	184T	14.4	7.2	46	5.8	37	87.5	J	101	6306	6306	17.1
	23W	1170	215T	14.2	7.1	46	5.68	37	87.5	J	162	6308	6308	20.1
7.5	27W	1765	213T	21	10.5	63	8.4	50	89.5	H	136	6308	6308	18.9
	28W	1170	254T	20.6	10.3	63	8.24	50	89.5	H	249	6309	6309	25
10	32W	1760	215T	29	14.5	81	11.5	65	89.5	H	160	6308	6308	20.4
	33W	1170	256T	26.8	13.4	81	10.7	65	89.5	G	274	6309	6309	25
15	37W	1760	254T	36.4	18.2	116	14.6	93	91	G	270	6309	6309	25
	38W	1175	284T	37.4	18.7	116	14.9	93	90.2	G	350	6311	6311	28
20	42W	1750	256T	48.4	24.2	145	19.4	116	91	G	306	6309	6309	25
	43W	1175	284TS	49.8	24.9	145	19.9	116	90.2	G	372	6311	6311	28.1
25	47W	1765	284T	60	30	182	24	146	92.4	G	372	6311	6311	28.1
	48W	1180	324T	60.4	30.2	182	24.1	146	91.7	G	508	6312	6312	31.1
30	52W	1760	286T	70.6	35.3	217	28.2	174	92.4	G	387	6311	6311	28.1
	53W	1180	362T	73	36.5	217	29.2	174	91.7	G	519	6312	6312	31.3
40	57W	1770	324T	93.2	46.6	290	37.3	232	93	G	521	6312	6312	31.3
	58W	1180	364T	94	47	290	37.6	232	93	G	697	6313	6313	33.5
50	62W	1770	326T	116.6	58.3	362	46.6	290	93	G	585	6312	6312	31.3
	63W	1180	365T	116	58	362	46.4	290	93	G	752	6313	6313	33.5
60	67W	1780	364T	140	70	435	56	348	93.6	G	730	6313	6313	33.5
	68W	1180	404T	136	68	435	54.4	348	93.6	G	950	NU315	6314	38.2
75	72W	1780	365T	177.2	88.6	542	70.9	434	94.1	G	774	6313	6313	33.5
	73W	1180	405T	168	84	542	67.2	434	93.6	G	1078	NI315	6314	38.2
100	77W	1063	405T	227	113.5	725	90.8	580	94.5	G	1063	NU315	6314	38.2
	78W	1180	444T	226	113	725	90.4	580	94.1	G	1315	NU319	6318	44.3
125	82W	1780	444T		147	907	117.6	726	94.5	G	1364	NU319	6318	44.3
	83W	1180	445T		141	907	112.8	726	94.1	G	1143	NU319	6318	47.8
150	87W	1780	445T		171	1085	136.8	868	95	G	1694	NU319	6318	47.8
	88W	1180	447T		165	1085	132	868	95	G	1678	NU319	6318	47.8
200	97W	1780	447T		218	1450	174.4	1160	95	G	1782	NU319	6318	47.8
	98W	1180	449T		220	1450	176	1160	95	G	2024	NU319	6318	52.8
250	102W	1790	449T		275	1825	220	1460	95	G	2450	NU319	6318	52.8
300	107W	1790	449T		330	2200	264	1760	95.4	G	3200	NU319	6318	52.8

\*Other performance data is available upon request from MEP

