

# Data sheet

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## Commercial motors

**File No:** 48.11  
**Date:** NOVEMBER 22, 2012  
**Supersedes:** NEW  
**Date:** NEW

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**PERFORMANCE DATA SHEET**

EPACT NR CAN NEMA 12 - 11

CATALOGUE #: MQC-26W

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
7.5	5.60	213T	TEFC	230/460	126/63	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
17.6	8.8	3600	3525	88.5%	0.91	H

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
21.0	10.5	3000	2910	86.5%	0.92	E

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
134	3	CONTINUOUS	F	40	3300 ft

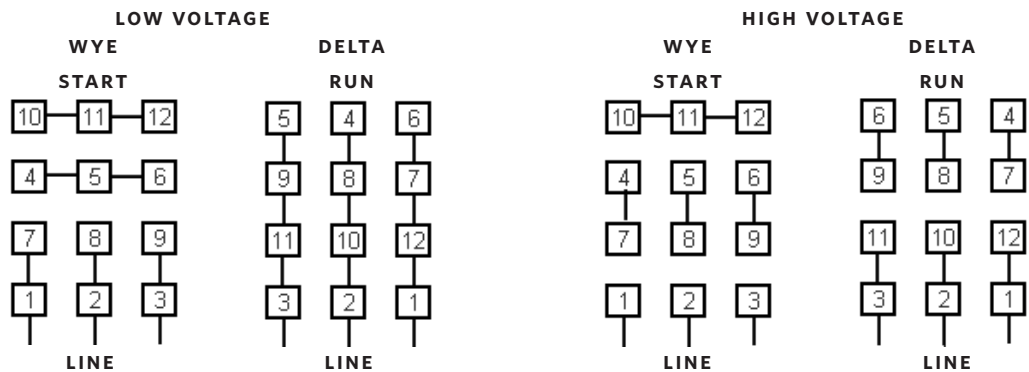
% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 88.5	FULL LOAD: 91	FULL LOAD LBS - FT: 11.15
¾ LOAD: 89	¾ LOAD: 90	LOCKED ROTOR %: 190
½ LOAD: 89.0	½ LOAD: 85	BREAK DOWN %: 270

ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
0.00	12	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
6308/6308	SEALED BEARINGS	RIGID	HORIZONTAL	BLUE

**WIRING CONNECTION DIAGRAM: B**

213T - 405T DUAL VOLTAGE 12 LEADS CONNECTION







MAX MOTION W SERIES EPACT NEMA 12-11 EFFICIENCY PERFORMANCE DATA

MEP CAT#	FRAME	HP	60 Hz										50 Hz										TORQUE						EFFICIENCY			POWER FACTOR			ROTOR		MAX WK <sup>2</sup>	SEALD BEARINGS	PAINT	NEMA EFFICIENCY APPROVAL	CONNECTION DIAGRAM
			FLA 230V	FLA 460V	460V L.R. AMPS	FLA 575 OR 460 AMPS	L.R. AMPS	LOW VOLTAGE	HIGH VOLTAGE	VOLTAGE	RPM	RPM	EFF. (%)	P.F.	CODE	FLA 190V	FLA 380V	RPM	RPM	EFF. (%)	P.F.	CODE	NET WT. LBS	DE/ODE BRG	FULL LOAD	LOCKED ROTOR	BREAK DOWN	FULL	% LOAD	FULL	% LOAD	FULL	% LOAD	FULL	% LOAD	LB FT <sup>2</sup>					
MOP-71	365TS	75	165	82.5	542	1084/460	1084/460	230	460	230/460	3560	3600	93.6	0.92	G	200	100	2945	3000	92.0	0.93	F	766	6313/6313	110.69	200	275	93.6	93	92.5	92	93	91.5	92	93	91.5	6.64	97	B		
MPP-71	365TS	75	-	-	542	1084/460	1084/460	NA	575	575	3560	3600	93.6	0.92	G	200	100	2945	3000	92.0	0.93	F	766	6313/6313	110.69	200	275	93.6	93	92.5	92	93	91.5	92	93	91.5	6.64	97	E		
MOP-72	365TS	75	166	83	542	1084/460	1084/460	230	460	230/460	1780	1800	95.4	0.90	G	200	100	1470	1500	94.0	0.91	F	783	6313/6313	221.95	195	260	95.4	94.9	94.5	90	90.5	85	90	90.5	85	12.81	465	B		
MPP-72	365TS	75	-	-	542	1084/460	1084/460	NA	575	575	1780	1800	95.4	0.90	G	200	100	1470	1500	94.0	0.91	F	783	6313/6313	221.95	195	260	95.4	94.9	94.5	90	90.5	85	90	90.5	85	12.81	465	E		
MOP-73	405TS	75	170	85	542	1084/460	1084/460	230	460	230/460	1180	1200	94.5	0.88	G	204	102	980	1000	93.5	0.89	F	1120	6318/6317	335	190	210	94.5	93.5	93	88	85	78	30.85	1235	B					
MPP-73	405TS	75	-	-	542	1084/460	1084/460	NA	575	575	1180	1200	94.5	0.88	G	204	102	980	1000	93.5	0.89	F	1120	6318/6317	335	190	210	94.5	93.5	93	88	85	78	30.85	1235	E					
MOP-76	405TS	100	218	109	725	1450/725	1450/725	230	460	230/460	3560	3600	94.1	0.92	G	266	133	2950	3000	92.6	0.93	F	1040	6314/6314	147.2	180	280	94.1	94	93.6	92	93	90.5	11.39	130	B					
MPP-76	405TS	100	-	-	725	1450/725	1450/725	NA	575	575	3560	3600	94.1	0.92	G	266	133	2950	3000	92.6	0.93	F	1040	6314/6314	147.2	180	280	94.1	94	93.6	92	93	90.5	11.39	130	E					
MOP-77	405TS	100	220	110	725	1450/725	1450/725	230	460	230/460	1780	1800	95.4	0.90	G	264	132	1470	1500	94.1	0.92	F	1058	6315/6314	295.17	185	220	95.4	95.1	94.7	90	90.5	84	21.83	600	B					
MPP-77	405TS	100	-	-	725	1450/725	1450/725	NA	575	575	1780	1800	95.4	0.90	G	264	132	1470	1500	94.1	0.92	F	1058	6315/6314	295.17	185	220	95.4	95.1	94.7	90	90.5	84	21.83	600	E					
MOP-78	444TS	100	-	113	725	109.0	90.4	580	NA	460	1185	1200	95.0	0.88	G	NA	135	985	1000	93.5	0.89	F	1320	6319/318	442.5	190	210	95	94.2	93.5	88	85	78	80.68	1610	C					
MPP-78	444TS	100	-	-	725	109.0	90.4	580	NA	460	1185	1200	95.0	0.88	G	NA	135	985	1000	93.5	0.89	F	1320	6319/318	442.5	190	210	95	94.2	93.5	88	85	78	80.68	1610	E					
MOP-81	444TS	125	-	135	907	135.0	109.6	726	NA	460	3565	3600	95.0	0.92	G	NA	165	2950	3000	93.5	0.93	F	1247	6314/6314	183.75	190	250	95	94.4	93.8	92	92.5	90.5	16.61	145	C					
MPP-81	444TS	125	-	-	907	135.0	109.6	726	NA	460	3565	3600	95.0	0.92	G	NA	165	2950	3000	93.5	0.93	F	1247	6314/6314	183.75	190	250	95	94.4	93.8	92	92.5	90.5	16.61	145	E					
MOP-82	444TS	125	-	137	907	137.0	109.6	726	NA	460	1780	1800	95.4	0.91	G	NA	165	1470	1500	94.2	0.92	F	1342	6319/6318	368.93	180	250	95.4	94.4	94	91	93	89.5	40.34	675	C					
MPP-82	444TS	125	-	-	907	137.0	109.6	726	NA	460	1780	1800	95.4	0.91	G	NA	165	1470	1500	94.2	0.92	F	1342	6319/6318	368.93	180	250	95.4	94.4	94	91	93	89.5	40.34	675	E					
MOP-83	445TS	125	-	140	907	140.0	112.0	726	NA	460	1185	1200	95.0	0.89	G	NA	168	985	1000	93.5	0.9	F	1400	6319/6318	553.5	190	210	95	94.5	93.8	89	85	78	94.92	1900	C					
MPP-83	445TS	125	-	-	907	140.0	112.0	726	NA	460	1185	1200	95.0	0.89	G	NA	168	985	1000	93.5	0.9	F	1400	6319/6318	553.5	190	210	95	94.5	93.8	89	85	78	94.92	1900	E					
MOP-86	445TS	150	-	162	1085	162.0	108.5	868	NA	460	3570	3600	95.0	0.92	G	NA	197	2955	3000	93.5	0.93	F	1408	6314/6314	220.42	195	245	95	94.5	93.8	92	93	90.7	21.36	170	C					
MPP-86	445TS	150	-	-	1085	162.0	108.5	868	NA	460	3570	3600	95.0	0.92	G	NA	197	2955	3000	93.5	0.93	F	1408	6314/6314	220.42	195	245	95	94.5	93.8	92	93	90.7	21.36	170	E					
MOP-87	445TS	150	-	164	1085	164.0	108.5	868	NA	460	1780	1800	95.8	0.91	G	NA	200	1475	1500	93.5	0.92	F	1672	6319/6318	442.74	190	250	95.8	95.3	94.6	91	92	90	56.95	810	C					
MPP-87	445TS	150	-	-	1085	164.0	108.5	868	NA	460	1780	1800	95.8	0.91	G	NA	200	1475	1500	93.5	0.92	F	1672	6319/6318	442.74	190	250	95.8	95.3	94.6	91	92	90	56.95	810	E					
MOP-88	447TS	150	-	165	1085	165.0	108.5	868	NA	460	1185	1200	95.8	0.89	G	NA	198	985	1000	94.3	0.9	F	1800	6319/6318	664.5	185	215	95.8	95.1	94.5	89	85	78	109.16	2170	C					
MPP-88	447TS	150	-	-	1085	165.0	108.5	868	NA	460	1185	1200	95.8	0.89	G	NA	198	985	1000	94.3	0.9	F	1800	6319/6318	664.5	185	215	95.8	95.1	94.5	89	85	78	109.16	2170	E					
MOP-96	447TS	200	-	213	1450	213.0	145.0	1160	NA	460	3570	3600	95.4	0.93	G	NA	260	2955	3000	93.9	0.94	F	1584	6314/6314	293.9	185	210	95.4	94.8	94.3	93	94	93	27.29	220	C					
MPP-96	447TS	200	-	-	1450	213.0	145.0	1160	NA	460	3570	3600	95.4	0.93	G	NA	260	2955	3000	93.9	0.94	F	1584	6314/6314	293.9	185	210	95.4	94.8	94.3	93	94	93	27.29	220	E					
MOP-97	447TS	200	-	216	1450	216.0	145.0	1160	NA	460	1780	1800	96.2	0.91	G	NA	265	1480	1500	95.0	0.92	F	1782	6319/6318	590.25	195	240	96.2	95.8	95.3	91	92	90.2	68.82	1047	C					
MPP-97	447TS	200	-	-	1450	216.0	145.0	1160	NA	460	1780	1800	96.2	0.91	G	NA	265	1480	1500	95.0	0.92	F	1782	6319/6318	590.25	195	240	96.2	95.8	95.3	91	92	90.2	68.82	1047	E					
MOP-98	449TS	200	-	220	1450	220.0	145.0	1160	NA	460	1185	1200	95.8	0.89	G	NA	264	985	1000	94.3	0.9	F	2100	6319/6318	885	190	210	95.8	95.1	94.5	89	85	79	142.38	2900	C					
MPP-98	449TS	200	-	-	1450	220.0	145.0	1160	NA	460	1185	1200	95.8	0.89	G	NA	264	985	1000	94.3	0.9	F	2100	6319/6318	885	190	210	95.8	95.1	94.5	89	85	79	142.38	2900	E					
MOP-101	449TS	250	-	266	1825	266.0	182.5	1260	NA	460	3570	3600	95.8	0.93	G	NA	323	2955	3000	94.3	0.94	F	1870	6314/6314	367.38	180	210	95.8	95.8	95.1	93	93.5	92.7	32.04	265	C					
MPP-101	449TS	250	-	-	1825	266.0	182.5	1260	NA	460	3570	3600	95.8	0.93	G	NA	323	2955	3000	94.3	0.94	F	1870	6314/6314	367.38	180	210	95.8	95.8	95.1	93	93.5	92.7	32.04	265	E					
MOP-102	449TS	250	-	270	1825	270.0	182.5	1260	NA	46																															

MAX MOTION W SERIES EPACT NEMA 12-11 EFFICIENCY PERFORMANCE DATA

Table with columns: MEP CAT#, FRAME, HP, FLA 230V, FLA 460V, FLA 575 OR 460V, L.R. AMPS, LOW VOLTAGE, HIGH VOLTAGE, VOLTAGE, RPM, EFF. (%), P.F., CODE, FLA 190V, FLA 380V, RPM, EFF. (%), P.F., CODE, NET WT. LBS, DE/ODE BRG, TORQUE (FULL LOAD, LOCKED ROTOR, BREAK DOWN), EFFICIENCY (FULL LOAD, 1/2 LOAD), POWER FACTOR (FULL LOAD, 1/2 LOAD), ROTOR WK², MAX WK², GREASE, PAINT, NEMA EFFICIENCY APPROVAL, CONNECTION DIAGRAM.

MAX MOTION W SERIES EPACT NEMA 12-11 EFFICIENCY PERFORMANCE DATA

MEP CAT#	FRAME	HP	60 HZ										50 HZ										DE/ODE BRG	TORQUE			EFFICIENCY			POWER FACTOR			RO- TOR W/ WK	MAX TOR WK <sup>2</sup>	GREASE	PAINT	NEMA EFFICIENCY	APPROVAL	CONNECTION DIAGRAM
			FLA 230V	FLA 460V	460V L.R. AMPS	FLA 575 OR 460	L.R. AMPS	LOW VOLTAGE	HIGH VOLTAGE	VOLTAGE	RPM	RPM	EFF. (%)	P.F.	CODE	FLA 190V	FLA 380V	RPM	RPM	EFF. (%)	P.F.	CODE		NET WT. LBS	FULL LOAD	LOCKED ROTOR	BREAK DOWN	FULL LOAD	% LOAD	% LOAD	% LOAD	% LOAD							
MOC-42W	256T	20	48.4	24.2	145	24.2	290/145	230	460	230/460	1750	1800	91	0.85	G	58	29	1450	1500	90	0.87	F	306	6309/6309	59.8	180	200	200	91	91.2	91	85	85	78	138.6	B			
MPC-42W	256T	20	-	-	19.4	116	575	1750	1800	91	0.85	G	60	30	965	1000	88.2	0.86	F	372	6311/6311	89.42	210	250	90.2	90.3	90.2	84	85	77	362	E							
MOC-43W	286T	20	49.8	24.9	145	24.9	290/145	230	460	230/460	1175	1200	90.2	0.84	G	60	30	965	1000	88.2	0.86	F	372	6311/6311	89.42	210	250	90.2	90.3	90.2	84	85	77	362	B				
MPC-43W	286T	20	-	-	19.9	116	575	1750	1800	90.2	0.84	G	60	30	965	1000	88.2	0.86	F	372	6311/6311	89.42	210	250	90.2	90.3	90.2	84	85	77	362	E							
MOC-46W	284TS	25	56	28	182	182	364/182	230	460	230/460	3530	3600	91	0.91	G	68	34	2920	3000	89.3	0.92	F	365	6311/6311	37.2	190	290	91	91	90.7	91	90	86	36.4	B				
MPC-46W	284TS	25	-	-	22.4	145.6	575	1750	1800	92.4	0.85	G	70	35	1460	1500	90.5	0.89	F	372	6311/6311	74.3	180	260	92.4	91.7	91.1	85	84	75	170.8	E							
MOC-47W	284T	25	60	30	182	182	364/182	230	460	230/460	1760	1800	92.4	0.85	G	70	35	1460	1500	90.5	0.89	F	372	6311/6311	74.3	180	260	92.4	91.7	91.1	85	84	75	170.8	B				
MPC-47W	284T	25	-	-	24.0	145.6	575	1750	1800	92.4	0.85	G	70	35	1460	1500	90.5	0.89	F	372	6311/6311	74.3	180	260	92.4	91.7	91.1	85	84	75	170.8	E							
MOC-48W	324T	25	60.4	30.2	182	182	364/182	230	460	230/460	1175	1200	91.7	0.85	G	72	36	965	1000	89.7	0.87	F	508	6312/6312	111.4	200	245	91.7	91.7	91.2	85	78	68	455	B				
MPC-48W	324T	25	-	-	24.2	145.6	575	1750	1800	91.7	0.85	G	72	36	965	1000	89.7	0.87	F	508	6312/6312	111.4	200	245	91.7	91.7	91.2	85	78	68	455	E							
MOC-51W	286TS	30	67.4	33.7	217	217	434/217	230	460	230/460	3530	3600	91	0.92	G	82	41	2920	3000	89.3	0.93	F	387	6311/6311	44.6	180	290	91	91	90.8	92	92.1	88	40.3	B				
MPC-51W	286TS	30	-	-	27.0	173.6	575	1750	1800	91	0.92	G	82	41	2920	3000	89.3	0.93	F	387	6311/6311	44.6	180	290	91	91	90.8	92	92.1	88	40.3	E							
MOC-52W	286T	30	70.6	35.3	217	217	434/217	230	460	230/460	1760	1800	92.4	0.86	G	85	42.5	1460	1500	90.5	0.89	F	387	6311/6311	89.1	200	280	92.4	92.1	91.5	86	84.5	76.5	187.2	B				
MPC-52W	286T	30	-	-	28.2	173.6	575	1750	1800	92.4	0.86	G	85	42.5	1460	1500	90.5	0.89	F	387	6311/6311	89.1	200	280	92.4	92.1	91.5	86	84.5	76.5	187.2	E							
MOC-53W	326T	30	73	36.5	217	217	434/217	230	460	230/460	1180	1200	91.7	0.85	G	87	43.8	970	1000	89.7	0.87	F	519	6312/6312	133.56	200	230	91.7	91.8	91.4	85	79	71	499.2	B				
MPC-53W	326T	30	-	-	29.2	173.6	575	1750	1800	91.7	0.85	G	87	43.8	970	1000	89.7	0.87	F	519	6312/6312	133.56	200	230	91.7	91.8	91.4	85	79	71	499.2	E							
MOC-56W	324TS	40	89	44.5	290	290	580/290	230	460	230/460	3540	3600	91.7	0.91	G	108	54	2925	3000	90	0.93	F	486	6312/6312	59.2	185	280	91.7	91.2	90.3	91	87	80	52	B				
MPC-56W	324TS	40	-	-	35.6	232	575	1750	1800	91.7	0.91	G	108	54	2925	3000	90	0.93	F	486	6312/6312	59.2	185	280	91.7	91.2	90.3	91	87	80	52	E							
MOC-57W	324T	40	93.2	46.6	290	290	580/290	230	460	230/460	1760	1800	93	0.87	G	110	55	1460	1500	91	0.9	F	521	6312/6312	118.9	185	265	93	92.2	91.1	87	84	78	245	B				
MPC-57W	324T	40	-	-	37.3	232	575	1750	1800	93	0.87	G	110	55	1460	1500	91	0.9	F	521	6312/6312	118.9	185	265	93	92.2	91.1	87	84	78	245	E							
MOC-58W	364T	40	94	47	290	290	580/290	230	460	230/460	1180	1200	93	0.86	G	113	56.5	980	1000	91	0.88	F	697	6313/6313	178.08	200	230	93	93	92.6	86	84	76.5	651	B				
MPC-58W	364T	40	-	-	37.6	232	575	1750	1800	93	0.86	G	113	56.5	980	1000	91	0.88	F	697	6313/6313	178.08	200	230	93	93	92.6	86	84	76.5	651	E							
MOC-61W	326TS	50	110	55	362	362	724/362	230	460	230/460	3545	3600	92.4	0.92	G	134	67	2930	3000	90.7	0.93	F	532	6312/6312	73.9	190	300	92.4	91.5	90.7	92	85	80	63.7	B				
MPC-61W	326TS	50	-	-	44.0	289.6	575	1750	1800	92.4	0.92	G	134	67	2930	3000	90.7	0.93	F	532	6312/6312	73.9	190	300	92.4	91.5	90.7	92	85	80	63.7	E							
MOC-62W	326T	50	116.6	58.3	362	362	724/362	230	460	230/460	1765	1800	93	0.87	G	138	69	1465	1500	91.5	0.9	F	565	6312/6312	148.4	190	265	93	92.1	91.2	87	84	79	300	B				
MPC-62W	326T	50	-	-	46.6	289.6	575	1750	1800	93	0.87	G	138	69	1465	1500	91.5	0.9	F	565	6312/6312	148.4	190	265	93	92.1	91.2	87	84	79	300	E							
MOC-63W	356T	50	116	58	362	362	724/362	230	460	230/460	1180	1200	93	0.87	G	140	70	980	1000	91	0.89	F	752	6313/6313	222.6	190	210	93	93.1	92.8	87	85	78	800	B				
MPC-63W	356T	50	-	-	46.4	289.6	575	1750	1800	93	0.87	G	140	70	980	1000	91	0.89	F	752	6313/6313	222.6	190	210	93	93.1	92.8	87	85	78	800	E							
MOC-66W	364TS	60	132	66	435	435	870/435	230	460	230/460	3560	3600	93	0.92	G	161	80.5	2940	3000	91.4	0.93	F	706	6313/6313	88.55	185	270	93	92.2	91.5	92	91	90.5	74	B				
MPC-66W	364TS	60	-	-	52.8	348	575	1750	1800	93	0.92	G	161	80.5	2940	3000	91.4	0.93	F	706	6313/6313	88.55	185	270	93	92.2	91.5	92	91	90.5	74	E							
MOC-67W	364T	60	140	70	435	435	870/435	230	460	230/460	1780	1800	93.6	0.86	G	165	82.5	1475	1500	92	0.9	F	730	6313/6313	177.55	180	255	93.6	93.4	93	86	86	357.5	B					
MPC-67W	364T	60	-	-	56.0	348	575	1750	1800	93.6	0.86	G	165	82.5	1475	1500	92	0.9	F	730	6313/6313	177.55	180	255	93.6	93.4	93	86	86	357.5	E								
MOC-68W	404T	60	136	68	435	435	870/435	230	460	230/460	1180	1200	93.6	0.90	G	163	81.5	980	1000	92	0.91	F	950	6315/6314	266	190	230	93.6	93.7	93.4	90	88	82	952	B				
MPC-68W	404T	60	-	-	54.4	348	575	1750	1800	93.6	0.90	G	163	81.5	980	1000	92	0.91	F	950	6315/6314	266	190	230	93.6	93.7	93.4	90	88	82	952	E							
MOC-71W	356TS	75	165	82.5	542	542	1084/542	230	460	230/460	3560	3600	93	0.92	G	200	100	2945	3000	91.4	0.93	F	774	6313/6313	110.7	190	275	93	92.4	92	92	91.5	90	92.3	B				
MPC-71W	356TS	75	-	-	66.0	433.6	575	1750	1800	94.1	0.86	G	200	100	2945	3000	91.4	0.93	F	774	6313/6313	110.7	190	275	93</														

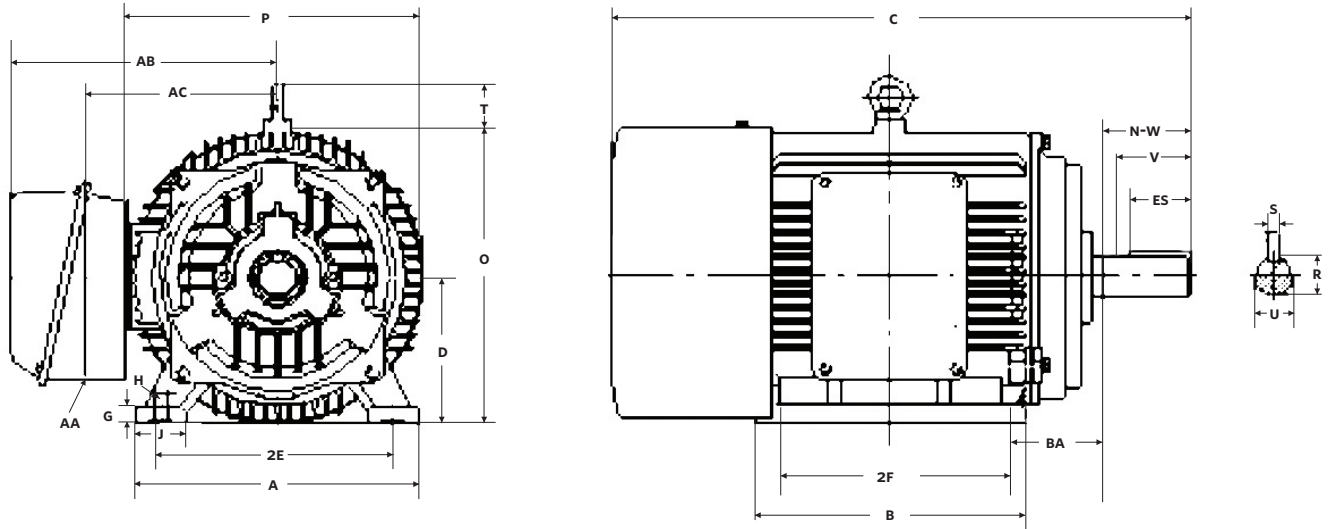
MAX MOTION W SERIES EPACT NEMA 12-11 EFFICIENCY PERFORMANCE DATA

MFC CAT #	FRAME	HP	60 Hz										50 Hz										NET WT. LBS.	DE/ODE BRG	TORQUE			EFFICIENCY			POWER FACTOR			RO- TOR WK <sup>2</sup>	MAX WK <sup>2</sup>	GREASE	PAINT	NEMA EFFICIENCY APPROVAL	CONNECTION DIAGRAM
			FLA 230V	FLA 460V	460V L.R. AMPS	FLA 575 OR 460 AMPS	L.R. AMPS	LOW VOLTAGE	HIGH VOLTAGE	VOLTAGE	RPM	RPM	EFF. (%)	P.F.	CODE	FLA 190V	FLA 380V	RPM	RPM	EFF. (%)	P.F.	CODE			FULL LOAD	LOCKED ROTOR	BREAK DOWN	FULL LOAD	% LOAD	% LOAD	% LOAD	FULL LOAD	% LOAD						
MFC-76W	405TS	100	218	109	725	109.0	1450/725	230	460	230/460	3560	3600	93.6	0.92	G	266	133	2950/3000	92.1	0.93	F	1042	6314/6314	147.22	200	280	93.6	93.5	93.1	92	93	90	119.6	B					
MFC-76W	405TS	100	-	-	87.2	580	NA	NA	575	575	3560	3600	93.6	0.92	G	NA	NA	NA	NA	NA	NA	1042	6314/6314	147.22	200	280	93.6	93.5	93.1	92	93	90	119.6	E					
MFC-77W	405T	100	227	113.5	725	113.5	1450/725	230	460	230/460	1780	1800	94.5	0.88	G	270	135	1470/1500	93	0.91	F	1063	6314/6314	295.12	190	220	94.5	94.3	93.9	88	88	82.1	573.3	B					
MFC-77W	405T	100	-	-	90.8	580	NA	NA	575	575	1780	1800	94.5	0.88	G	NA	NA	NA	NA	NA	NA	1063	6314/6314	295.12	190	220	94.5	94.3	93.9	88	88	82.1	573.3	E					
MFC-78W	444T	100	-	113	725	113.0	725	NA	460	460	1180	1200	94.1	0.89	G	NA	135	980/1000	92.5	0.9	F	1315	6314/6318	445.2	195	210	94.1	94	93.4	89	88	81	1560	C					
MFC-78W	444T	100	-	-	90.4	580	NA	NA	575	575	1180	1200	94.1	0.89	G	NA	NA	NA	NA	NA	NA	1315	6314/6318	445.2	195	210	94.1	94	93.4	89	88	81	1560	E					
MFC-81W	444TS	125	135	907	135.0	907	NA	460	460	460	3565	3600	94.5	0.92	G	NA	165	2950/3000	93	0.93	F	1247	6314/6314	183.8	195	290	94.5	94	93.2	92	93	90	135.6	C					
MFC-81W	444TS	125	-	-	108.0	725.6	NA	575	575	575	3565	3600	94.5	0.92	G	NA	NA	NA	NA	NA	NA	1247	6314/6314	183.8	195	290	94.5	94	93.2	92	93	90	135.6	E					
MFC-82W	444T	125	147	907	147.0	907	NA	460	460	460	1780	1800	94.5	0.85	G	NA	175	1470/1500	93.2	0.87	F	1364	6314/6318	368.93	180	240	94.5	94.4	94.1	85	88	84	650.4	C					
MFC-82W	444T	125	-	-	117.6	725.6	NA	575	575	575	1780	1800	94.5	0.85	G	NA	NA	NA	NA	NA	NA	1364	6314/6318	368.93	180	240	94.5	94.4	94.1	85	88	84	650.4	E					
MFC-83W	445T	125	141	907	141.0	907	NA	460	460	460	1180	1200	94.1	0.89	G	NA	170	980/1000	92.5	0.9	F	1443	6314/6318	556.51	190	200	94.1	94.1	93.5	89	88	83	1742.4	C					
MFC-83W	445T	125	-	-	112.8	725.6	NA	575	575	575	1180	1200	94.1	0.89	G	NA	NA	NA	NA	NA	NA	1443	6314/6318	556.51	190	200	94.1	94.1	93.5	89	88	83	1742.4	E					
MFC-86W	445TS	150	162	1085	162.0	1085	NA	460	460	460	3570	3600	94.5	0.92	G	NA	197	2955/3000	93	0.93	F	1408	6314/6314	220.45	190	250	94.5	94	93.3	92	93	90	159.6	C					
MFC-86W	445TS	150	-	-	129.6	868	NA	575	575	575	3570	3600	94.5	0.92	G	NA	NA	NA	NA	NA	NA	1408	6314/6314	220.45	190	250	94.5	94	93.3	92	93	90	159.6	E					
MFC-87W	445T	150	171	1085	171.0	1085	NA	460	460	460	1780	1800	95	0.87	G	NA	205	1475/1500	93.5	0.89	F	1694	6314/6318	442.74	170	220	95	94.6	94.2	87	90	87	768	C					
MFC-87W	445T	150	-	-	136.8	868	NA	575	575	575	1780	1800	95	0.87	G	NA	NA	NA	NA	NA	NA	1694	6314/6318	442.74	170	220	95	94.6	94.2	87	90	87	768	E					
MFC-88W	447T	150	165	1085	165.0	1085	NA	460	460	460	1180	1200	95	0.90	G	NA	198	980/1000	93.4	0.91	F	1678	6314/6318	667.8	190	200	95	94.5	94	90	88	81	2100	C					
MFC-88W	447T	150	-	-	132.0	868	NA	575	575	575	1180	1200	95	0.90	G	NA	NA	NA	NA	NA	NA	1678	6314/6318	667.8	190	200	95	94.5	94	90	88	81	2100	E					
MFC-96W	447TS	200	213	1450	213.0	1450	NA	460	460	460	3570	3600	95	0.93	G	NA	260	2955/3000	93.5	0.94	F	1584	6314/6314	294	185	220	95	94.4	94	93	94	93	206.4	C					
MFC-96W	447TS	200	-	-	170.4	1160	NA	575	575	575	3570	3600	95	0.93	G	NA	NA	NA	NA	NA	NA	1584	6314/6314	294	185	220	95	94.4	94	93	94	93	206.4	E					
MFC-97W	447T	200	218	1450	218.0	1450	NA	460	460	460	1780	1800	95	0.91	G	NA	262	1475/1500	93.5	0.93	F	1782	6314/6318	590.25	190	230	95	94.7	94.3	91	93	90.5	997.2	C					
MFC-97W	447T	200	-	-	174.4	1160	NA	575	575	575	1780	1800	95	0.91	G	NA	NA	NA	NA	NA	NA	1782	6314/6318	590.25	190	230	95	94.7	94.3	91	93	90.5	997.2	E					
MFC-98W	449T	200	220	1450	220.0	1450	NA	460	460	460	1180	1200	95	0.90	G	NA	264	980/1000	93.4	0.91	F	2024	6314/6318	890	200	210	95	94.6	94	90	87	80	2690	C					
MFC-98W	449T	200	-	-	176.0	1160	NA	575	575	575	1180	1200	95	0.90	G	NA	NA	NA	NA	NA	NA	2024	6314/6318	890	200	210	95	94.6	94	90	87	80	2690	E					
MFC-101W	449TS	250	266	1825	266.0	1825	NA	460	460	460	3570	3600	95.4	0.93	G	NA	323	2955/3000	93.9	0.94	F	1870	6314/6314	367.5	180	220	95.4	95.1	94.8	93	94	93	252	C					
MFC-101W	449TS	250	-	-	212.8	1460	NA	575	575	575	3570	3600	95.4	0.93	G	NA	NA	NA	NA	NA	NA	1870	6314/6314	367.5	180	220	95.4	95.1	94.8	93	94	93	252	E					
MFC-102W	449T	250	270	1825	270.0	1825	NA	460	460	460	1780	1800	95	0.91	G	NA	325	1475/1500	93.5	0.92	F	2120	6314/6318	736	185	220	95	94.5	94	91	89	80	1230	C					
MFC-102W	449T	250	-	-	216.0	1460	NA	575	575	575	1780	1800	95	0.91	G	NA	NA	NA	NA	NA	NA	2120	6314/6318	736	185	220	95	94.5	94	91	89	80	1230	E					



**MECHANICAL DIMENSIONS**

**MAX MOTION EPACT SERIES W AND PREMIUM**



**DIMENSIONS IN INCHES**

FRAME	E	2F	AB	H	BA	AA	A	B	C	D	G	J	O	P	R	S	T	V	ES	N-W	U
143T	2.75	4.00	6.10	0.34	2.25	3/4	7.00	5.2	12.60	3.50	0.5		7.10	6.95	0.77	0.19	0.00	2.00	1.41	2.25	0.88
145T	2.75	5.00	6.10	0.34	2.25	3/4	7.00	6.2	13.60	3.50	0.5		7.10	6.95	0.77	0.19	0.00	2.00	1.41	2.25	0.88
182T	3.75	4.50	7.50	0.41	2.75	3/4	9.50	7.3(6.3)	16.1(15.1)	4.50	0.7		9.10	8.70	0.99	0.25	1.60	2.50	1.78	2.75	1.13
184T	3.75	5.50	7.50	0.41	2.75	3/4	9.50	8.3(7.3)	17.1(16.1)	4.50	0.7		9.10	8.70	0.99	0.25	1.60	2.50	1.78	2.75	1.13
213T	4.25	5.50	8.30	0.41	3.50	1	11.00	7.9	18.90	5.25	0.8		10.50	10.20	1.20	0.31	1.90	3.12	2.41	3.38	1.38
215T	4.25	7.00	8.30	0.41	3.50	1	11.00	9.4	20.40	5.25	0.8		10.50	10.20	1.20	0.31	1.90	3.12	2.41	3.38	1.38
254T	5.00	8.25	10.10	0.53	4.25	1 1/4	13.00	12.2(10.4)	25(23.2)	6.25	0.8		13.00	12.40	1.42	0.38	2.20	3.75	2.91	4.00	1.63
256T	5.00	10.00	10.10	0.53	4.25	1 1/4	13.00	12.2	25.00	6.25	0.8		13.00	12.40	1.42	0.38	2.20	3.75	2.91	4.00	1.63
284T	5.50	9.50	11.30	0.53	4.75	1 1/2	14.00	13.2(11.7)	28.1(26.6)	7.00	0.8		14.50	14.00	1.59	0.50	2.20	4.38	3.28	4.62	1.88
284TS	5.50	9.50	11.30	0.53	4.75	1 1/2	14.00	13.2(11.7)	26.7(25.2)	7.00	0.8		14.50	14.00	1.42	0.38	2.20	3.00	1.91	3.25	1.63
286T	5.50	11.00	11.30	0.53	4.75	1 1/2	14.00	13.2	28.10	7.00	0.8		14.50	14.00	1.59	0.50	2.20	4.38	3.28	4.62	1.88
286TS	5.50	11.00	11.30	0.53	4.75	1 1/2	14.00	13.2	26.70	7.00	0.8		14.50	14.00	1.42	0.38	2.20	3.00	1.91	3.25	1.63
324T	6.25	10.50	12.30	0.66	5.25	2	15.50	14.7(13.2)	31.3(29.8)	8.00	1.0		15.90	15.70	1.85	0.50	2.60	5.00	3.91	5.25	2.13
324TS	6.25	10.50	12.30	0.66	5.25	2	15.50	14.7(13.2)	29.8(28.3)	8.00	1.0		15.90	15.70	1.59	0.50	2.60	3.50	2.03	3.75	1.88
326T	6.25	12.00	12.30	0.66	5.25	2	15.50	14.7	31.30	8.00	1.0		15.90	15.70	1.85	0.50	2.60	5.00	3.91	5.25	2.13
326TS	6.25	12.00	12.30	0.66	5.25	2	15.50	14.7	29.80	8.00	1.0		15.90	15.70	1.59	0.50	2.60	3.50	2.03	3.75	1.88
364T	7.00	11.25	14.60	0.66	5.88	3	17.10	15.4(14.4)	33.5(32.5)	9.00	1.1		18.10	17.60	2.02	0.63	2.60	5.62	4.28	5.88	2.38
364TS	7.00	11.25	14.60	0.66	5.88	3	17.10	15.4(14.4)	31.4(30.4)	9.00	1.1		18.10	17.60	1.59	0.50	2.60	3.50	2.03	3.75	1.88
365T	7.00	12.25	14.60	0.66	5.88	3	17.10	15.4	33.50	9.00	1.1		18.10	17.60	2.02	0.63	2.60	5.62	4.28	5.88	2.38
365TS	7.00	12.25	14.60	0.66	5.88	3	17.10	15.4	31.40	9.00	1.1		18.10	17.60	1.59	0.50	2.60	3.50	2.03	3.75	1.88
404T	8.00	12.25	15.60	0.81	6.62	3	19.30	17.9(16.4)	38.2(36.7)	10.0	1.2		19.80	19.10	2.45	0.75	3.00	7.00	5.65	7.25	2.88
404TS	8.00	12.25	15.60	0.81	6.62	3	19.30	17.9(16.4)	35.2(33.7)	10.0	1.2		19.80	19.10	1.85	0.50	3.00	4.00	2.78	4.25	2.13
405T	8.00	13.75	15.60	0.81	6.62	3	19.30	17.9	38.20	10.0	1.2		19.80	19.10	2.45	0.75	3.00	7.00	5.65	7.25	2.88
405TS	8.00	13.75	15.60	0.81	6.62	3	19.30	17.9	35.20	10.0	1.2		19.80	19.10	1.85	0.50	3.00	4.00	2.78	4.25	2.13
444T	9.00	14.50	16.60	0.81	7.50	3	21.70	22.9	44.30	11.0	1.3		22.10	21.60	2.88	0.88	3.00	8.25	6.91	8.50	3.38
444TS	9.00	14.50	16.60	0.81	7.50	3	21.70	22.9	40.60	11.0	1.3		22.10	21.60	2.02	0.63	3.00	4.50	3.03	4.75	2.38
445T	9.00	16.50	16.60	0.81	7.00	3	21.70	26.4(22.9)	47.8(44.3)	11.0	1.3		22.10	21.60	2.88	0.88	3.00	8.25	6.91	8.50	3.38
445TS	9.00	16.50	16.60	0.81	7.50	3	21.70	26.4(22.9)	44.1(40.6)	11.0	1.3		22.10	21.60	2.02	0.63	3.00	4.50	3.03	4.75	2.38
447T	9.00	20.00	16.60	0.81	7.50	3	21.70	26.4	47.80	11.0	1.3		22.10	21.60	2.88	0.88	3.00	8.25	6.91	8.50	3.38
447TS	9.00	20.00	16.60	0.81	7.50	3	21.70	26.4	44.10	11.0	1.3		22.10	21.60	2.02	0.63	3.00	4.50	3.03	4.75	2.38
449T	9.00	25.00	16.60	0.81	7.50	3	21.70	31.4	52.80	11.0	1.3		22.10	21.60	2.88	0.88	3.00	8.25	6.91	8.50	3.38
449TS	9.00	25.00	16.60	0.81	7.50	3	21.70	31.4	49.10	11.0	1.3		22.10	21.60	2.02	0.63	3.00	4.50	3.03	4.75	2.38

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**PERFORMANCE DATA SHEET**

**NEMA PREMIUM NR CAN NEMA 12 - 12**

CATALOGUE #: MQP-22

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
5	3.73	184T	TEFC	230/60	92/46	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
12.6	6.3	1800	1745	89.5%	0.85	J

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
15.2	7.6	1500	1440	87.5%	0.86	H

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
112	3	CONTINUOUS	F	40	3300 ft

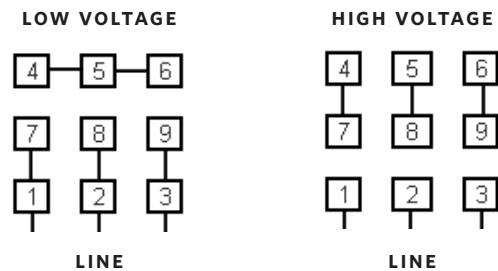
% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 89.5	FULL LOAD: 85	FULL LOAD LBS - FT; 15
¾ LOAD: 89.8	¾ LOAD: 82	LOCKED ROTOR %: 240
½ LOAD: 89.0	½ LOAD: 70	BREAK DOWN %: 290

ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
0.24	40	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
6306/6306	SEALED BEARINGS	RIGID	HORIZONTAL	GREEN

**WIRING CONNECTION DIAGRAM: A**

143T - 184T DUAL VOLTAGE DOL 9 LEADS WYE CONNECTION



**PERFORMANCE DATA SHEET**

**NEMA PREMIUM NR CAN NEMA 12 - 12**

CATALOGUE #: MQP-47

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
25	18.66	284T	TEFC	230/460	364/182	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
57	28.5	1800	1760	93.6%	0.9	G

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
68.0	34	1500	1460	92.3%	0.91	F

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
392	3	CONTINUOUS	F	40	3300 ft

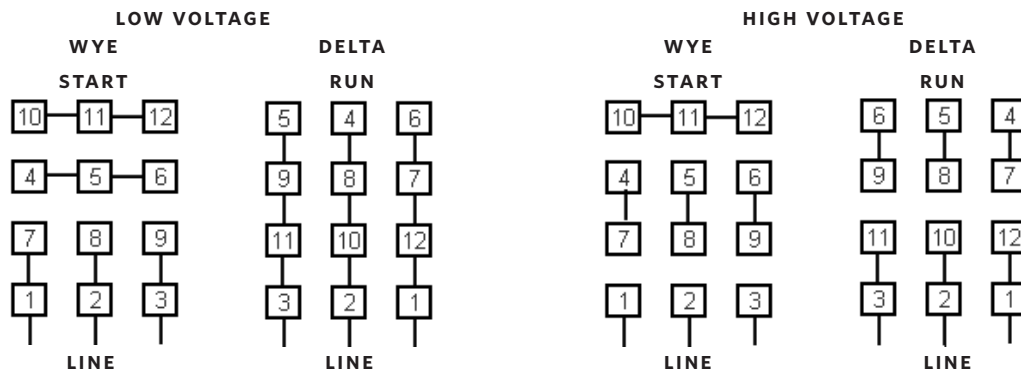
% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 93.6	FULL LOAD: 90	FULL LOAD LBS - FT; 74.3
¾ LOAD: 93	¾ LOAD: 87	LOCKED ROTOR %: 180
½ LOAD: 92.6	½ LOAD: 77	BREAK DOWN %: 260

ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
3.80	180	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
6311/6311	MOBIL POLYREXEM	RIGID	HORIZONTAL	GREEN

**WIRING CONNECTION DIAGRAM: B**

213T - 405T DUAL VOLTAGE 12 LEADS CONNECTION



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**PERFORMANCE DATA SHEET**

NEMA PREMIUM NR CAN NEMA 12 - 12

CATALOGUE #: MQP-78

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
100	74.63	444T	TEFC	460	725	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
NA	113	1200	1185	95.0%	0.88	G

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
NA	135	1000	985	93.5%	0.89	F

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
1320	3	CONTINUOUS	F	40	3300 ft

% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 95	FULL LOAD: 88	FULL LOAD LBS - FT: 442.5
¾ LOAD: 94.2	¾ LOAD: 85	LOCKED ROTOR %: 190
½ LOAD: 93.5	½ LOAD: 78	BREAK DOWN %: 210

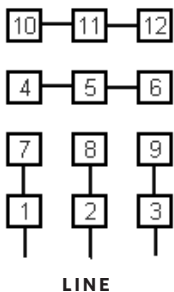
ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
80.68	1610	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
NU6319/318	MOBIL POLYREXEM	RIGID	HORIZONTAL	GREEN

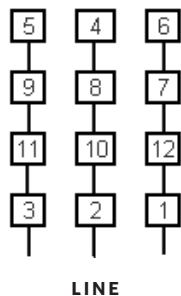
**WIRING CONNECTION DIAGRAM: C**

444T - 449T SINGLE VOLTAGE 12 LEADS CONNECTION 460 VAC 3 PHASE

**WYE START**



**DELTA RUN**



**PERFORMANCE DATA SHEET**

**NEMA PREMIUM NR CAN NEMA 12 - 12**

CATALOGUE #: MPP-22

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
5	3.73	184T	TEFC	575	36.8	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
NA	5.04	1800	1745	89.5%	0.85	J

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
NA	NA	NA	NA	NA	NA	NA

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
112	3	CONTINUOUS	F	40	3300 ft

% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 89.5	FULL LOAD: 85	FULL LOAD LBS - FT: 15
¾ LOAD: 89.8	¾ LOAD: 82	LOCKED ROTOR %: 240
½ LOAD: 89.0	½ LOAD: 70	BREAK DOWN %: 290

ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
0.24	40	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
6306/6306	SEALED BEARINGS	RIGID	HORIZONTAL	GREEN

**WIRING CONNECTION DIAGRAM: D**

143T - 184T 575V SINGLE VOLTAGE DOL 3 LEADS WYE CONNECTION 575 VAC 3 PHASE



LINE

14

**PERFORMANCE DATA SHEET**

**NEMA PREMIUM NR CAN NEMA 12 - 12**

CATALOGUE #: MPC-47W

HP	KW	FRAME	ENCLOSURE	VOLTAGE	L.R. AMPS	DESIGN
25	18.66	284T	TEFC	575	145.6	B

60 HZ AT 1.15 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
230V	460V					
NA	24	1800	1760	92.4%	0.85	G

50 HZ AT 1.0 S.F.

FLA		SYNC. RPM	F.L. RPM	EFF.	P.F.	CODE
190V	380V					
NA	NA	NA	NA	NA	NA	NA

WGT. LBS	PH	DUTY	INSL	AMB	ELEVATION
372	3	CONTINUOUS	F	40	3300 ft

% EFFICIENCY	% POWER FACTOR	TORQUE
FULL LOAD: 92.4	FULL LOAD: 85	FULL LOAD LBS - FT; 74.3
¾ LOAD: 91.7	¾ LOAD: 84	LOCKED ROTOR %: 180
½ LOAD: 91.1	½ LOAD: 75	BREAK DOWN %: 260

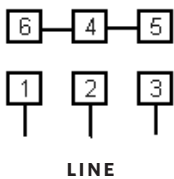
ROTOR INERTIA WK2	MAX LOAD INERTIA WK2	SHAFT MATERIAL	FRAME MATERIAL	DE BRACKET TYPE	ODE BRACKET TYPE	SEVERE DUTY
0.00	170.8	STANDARD	CAST IRON	STD	STD	IP55

BALL BEARINGS DE/ODE	GREASE	MOUNT TYPE	ORIENTATION	PAINT
6311/6311	MOBIL POLYREXEM	RIGID	HORIZONTAL	BLUE

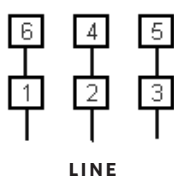
**WIRING CONNECTION DIAGRAM: E**

213T - 449T SINGLE VOLTAGE 6 LEADS CONNECTION 575 VAC 3 PHASE

**WYE START**



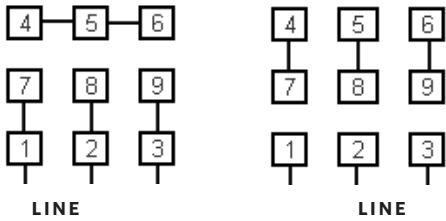
**DELTA RUN**



**CONNECTION DIAGRAM**

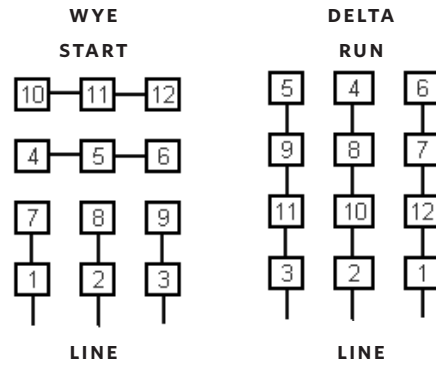
**A 143T - 184T DUAL VOLTAGE**

**LOW VOLTAGE**                      **HIGH VOLTAGE**  
DIRECT ONLINE STARTING WYE CONNECTION



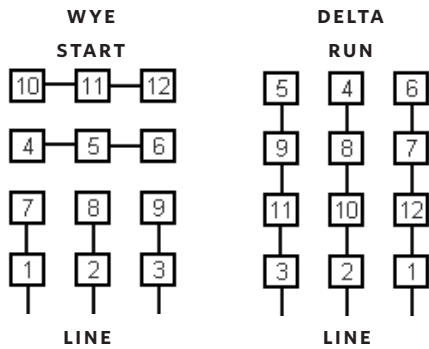
**C 444T - 449T SINGLE VOLTAGE**

460V



**B 213T - 405T DUAL VOLTAGE**

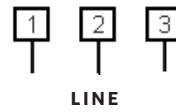
**LOW VOLTAGE**



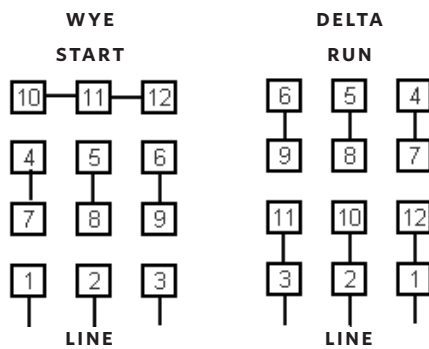
**D 143T - 184T SINGLE VOLTAGE**

575V

DIRECT ONLINE STARTING  
WYE CONNECTION

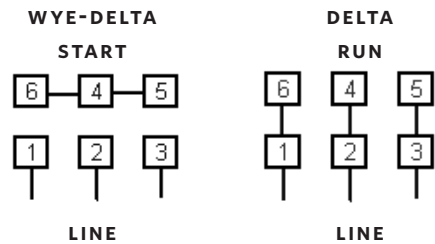


**HIGH VOLTAGE**



**E 213T - 449T SINGLE VOLTAGE**

575V



**TORONTO**

23 BERTRAND AVENUE  
TORONTO, ONTARIO  
CANADA  
M1L 2P3  
+1 416 755 2291

**BUFFALO**

93 EAST AVENUE  
NORTH TONAWANDA, NEW YORK  
U.S.A.  
14120-6594  
+1 716 693 8813

**BIRMINGHAM**

HEYWOOD WHARF, MUCKLOW HILL  
HALESOWEN, WEST MIDLANDS  
UNITED KINGDOM  
B62 8DJ  
+44 (0) 8444 145 145

**MANCHESTER**

WENLOCK WAY  
MANCHESTER  
UNITED KINGDOM  
M12 5JL  
+44 (0) 8444 145 145

**BANGALORE**

#59, FIRST FLOOR, 3RD MAIN  
MARGOSA ROAD, MALLESWARAM  
BANGALORE, INDIA  
560 003  
+91 (0) 80 4906 3555

**SHANGHAI**

NO. 1619 HU HANG ROAD, XI DU TOWNSHIP  
FENG XIAN DISTRICT, SHANGHAI  
P.R.C.  
201401  
+86 21 3756 6696

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