IE2

Prima Series (Performance Chart)

Efficiency Class: IE2	
Three-Phase Squirrel Cage Induction Motor	
Voltage	415±10%
Frequency	50±5%
Ambient	50 ^{0}C
Duty	S1
Class of Insulation	F
Type of enclosure	TEFC(IC411)
Temperature Rise	Limited to Class B

3000 r/min (2 Pole)

Frame Size	Output		Speed	Efficiency			Power Factor (Cos φ)			Rated Current	DIRECT-ON-LINE STARTING			Moment of inertia	Net Weight
	kW	HP	r/min	100%	75%	50%	100%	75%	50%	A	Starting Current (%)	Breakaway Torque (%)	Pull-Out Torque (%)	GD^2 (kgm^2)	kg (Approx.)
MHEE63ZAA2	0.18	0.25	2750	60.4	57.4	54.4	0.79	0.74	0.66	0.6	500	220	245	0.00068	3
MHEE63ZBA2	0.25	0.33	2750	64.8	64.48	62.22	0.6	0.59	0.58	1	650	200	250	0.008	3.2
MHEE71ZAA2	0.37	0.5	2800	69.5	69.5	68.4	0.78	0.73	0.65	0.94	500	220	245	0.00184	7
MHEE71ZBA2	0.55	0.75	2800	74.1	74.1	73.1	0.79	0.74	0.66	1.3	500	210	240	0.00232	7.2
MHEE80ZAA2	0.75	1	2830	77.4	77.4	74.5	0.8	0.76	0.69	1.7	600	240	270	0.00356	15
MHEE80ZBA2	1.1	1.5	2840	79.6	79.6	78.2	0.8	0.76	0.69	2.4	600	250	280	0.0042	15.4
MHEE90SAA2	1.5	2	2850	81.3	81.3	80.1	0.85	0.81	0.74	3	650	230	250	0.0102	21
MHEE90LCA2	2.2	3	2840	83.2	83.2	82.1	0.88	0.84	0.77	4.2	700	220	250	0.0115	22
MHEE100LAA2	3	4	2880	84.6	84.18	81.23	0.86	0.84	0.83	5.7	700	250	300	0.018	28
MHEE100LBA2	3.7	5	2920	85.5	85.5	84.8	0.86	0.83	0.76	7	700	240	270	0.0134	31
MHEE132SZA2	5.5	7.5	2890	87	87	86.1	0.89	0.86	0.8	9.9	700	240	270	0.056	57
MHEE132STA2	7.5	10	2890	88.1	88.1	86.9	0.9	0.87	0.81	13.2	700	250	290	0.0684	64
MHEE132MRA2	9.3	12.5	2910	90.7	90.20	874	0.89	0.87	0.85	16	750	220	250	0.112	78
MHEE160MTA2	9.3	12.5	2920	88.86	88.42	85.32	0.87	0.85	0.84	16.7	770	230	300	0.226	108
MHEE160MYA2	11	15	2920	89.4	89.4	88.5	0.88	0.85	0.79	19.5	700	230	260	0.226	113
MHEE160MZA2	15	20	2920	90.3	90.3	89.4	0.89	0.86	0.8	26	700	230	250	0.256	134
MHEE160LZA2	18.5	25	2920	90.9	90.9	90	0.89	0.86	0.81	31.8	750	225	245	0.284	137
MHEE180MZA2	22	30	2930	91.3	91.3	90.4	0.9	0.87	0.82	37.2	700	220	250	0.2982	171
MHEE200LPG2	30	40	2945	92	92	91.1	0.9	0.87	0.82	50.4	700	210	255	0.7	238
MHEE200LRG2	37	50	2945	92.5	92.5	91.6	0.88	0.85	0.8	63.2	700	220	260	0.9	253
MHEE225MP2	45	60	2945	92.9	92.9	92	0.9	0.88	0.83	75	700	225	250	1.3	324
MHEE250MP2	55	75	2945	93.2	93.2	92.3	0.9	0.88	0.83	91.2	700	220	260	1.95	429
MHEE280SV2	75	100	2970	93.8	93.8	92.9	0.92	0.9	0.85	121	700	210	250	4.56	604
MHEE280MV2	90	120	2970	94.1	94.1	93.2	0.91	0.89	0.84	146.2	700	230	275	5.1	626
MHEE315SYE2	110	150	2980	94.3	93.8	90.5	0.91	0.89	0.87	178	700	200	235	6.5	811
MHEE315MZE2	132	180	2980	94.6	94.1	90.8	0.91	0.89	0.87	211	700	200	230	7.28	891
MHEE315LYE2	160	220	2980	94.8	94.3	91	0.92	0.9	0.88	254	700	200	245	8.32	1018
MHEE315LYE2	180	240	2980	94.9	94.43	91.12	0.9	0.88	0.86	290	700	230	280	10.2	1022
MHEE315LZE2	200	270	2980	95	94.5	91.2	0.92	0.9	0.88	326	700	200	235	11.2	1026
MHEE355MB2	250	340	2980	95	95	94.1	0.92	0.91	0.88	398	700	200	240	18.5	1828
MHEE355LB2	315	430	2980	95	95	94.1	0.92	0.91	0.88	501.4	700	200	240	25.5	1839

Note: All performance figures are in accordance with IEC 60034-30-1:2014

IE2

Prima Series (Performance Chart)

Efficiency Class: IE2	
Three-Phase Squirrel Cage Induction Motor	
Voltage	415±10%
Frequency	50±5%
Ambient	50 ^{0}C
Duty	S1
Class of Insulation	F
Type of enclosure	TEFC(IC411)
Temperature Rise	Limited to Class B

1500 r/min (4 Pole)

Frame Size	Output		Speed	Efficiency			Power Factor (Cos φ)			Rated Current	DIRECT-ON-LINE STARTING			Moment of inertia	Net Weight
	kW	HP	r/min	100%	75%	50%	100%	75%	50%	A	Starting Current (%)	Breakaway Torque (%)	Pull-Out Torque (%)	GD^2 (kgm^2)	kg (Approx.)
MHEE63ZAA4	0.18	0.25	1335	64.7	61.5	58.2	0.63	0.58	0.49	0.62	500	220	250	0.00144	3.3
MHEE71ZAA4	0.25	0.33	1330	68.5	68.16	65.77	0.64	0.63	0.61	1.05	550	170	240	0.00252	7.2
MHEE71ZAA4	0.37	0.5	1380	72.7	72.7	71.5	0.71	0.65	0.55	1	500	220	250	0.00304	8
MHEE80ZAA4	0.55	0.75	1400	77.1	77.1	73.9	0.73	0.67	0.57	1.4	500	260	280	0.008	14
MHEE80ZBA4	0.75	1	1410	79.6	79.6	76.4	0.75	0.7	0.61	1.7	500	240	280	0.00964	16
MHEE90SAA4	1.1	1.5	1420	81.4	81.4	80.5	0.79	0.74	0.66	2.4	600	240	270	0.0185	21
MHEE90LBA4	1.5	2	1420	82.8	82.8	81.2	0.83	0.78	0.7	3	600	250	280	0.022	24
MHEE100LAA4	2.2	3	1450	84.3	84.3	82.8	0.78	0.73	0.66	4.7	600	240	270	0.0352	32
MHEE100LBA4	3	4	1430	85.5	85.07	829	0.72	0.71	0.69	6.8	700	225	275	0.0454	35
MHEE112MAA4	3.7	5	1450	86.3	86.3	85.4	0.81	0.76	0.69	7.4	650	240	290	0.0521	41
MHEE132SZA4	5.5	7.5	1450	87.7	87.7	86.8	0.8	0.76	0.68	10.9	650	250	280	0.135	62
MHEE132MZA4	7.5	10	1450	88.7	88.7	87.2	0.82	0.78	0.7	14.3	650	240	275	0.148	69
MHEE132MRA4	9.3	12.5	1430	89.39	88.94	85.83	0.85	0.83	0.82	17	700	220	260	0.1628	75
MHEE160MYA4	9.3	12.5	1460	89.39	89.39	88.7	0.85	0.81	0.73	17	650	220	260	0.42	114
MHEE160MZA4	11	15	1460	89.8	89.8	89	0.85	0.8	0.73	20	650	220	260	0.42	115
MHEE160LZA4	15	20	1460	90.6	90.6	89.8	0.84	0.78	0.71	29.3	650	230	270	0.456	137
MHEE180MZA4	18.5	25	1460	91.2	91.2	90.3	0.82	0.8	0.73	34.4	650	230	250	0.6	155
MHEE180LZA4	22	30	1465	91.6	91.6	90.7	0.84	0.79	0.72	39.8	650	230	280	0.68	171
MHEE200LRG4	30	40	1460	92.3	92.3	91.4	0.83	0.81	0.74	54.5	650	220	250	1.45	244
MHEE225SP4	37	50	1475	92.7	92.7	91.8	0.85	0.83	0.76	65.3	650	225	260	1.65	294
MHEE225MP4	45	60	1475	93.1	93.1	92.2	0.86	0.83	0.76	78.2	650	220	250	1.84	328
MHEE250MP4	55	75	1470	93.5	93.5	92.9	0.86	0.84	0.77	95.2	650	230	250	3.5	438
MHEE280SV4	75	100	1480	94	94	93.1	0.87	0.84	0.78	128	700	230	260	4.48	625
MHEE280MG4	90	120	1485	94.2	94.2	93.3	0.87	0.86	0.8	153	700	230	260	5.84	648
MHEE315SYE4	110	150	1490	94.8	94.33	91	0.88	0.86	0.85	184	700	220	250	12.44	811
MHEE315MYE4	132	180	1490	94.7	94.23	90.9	0.88	0.86	0.85	219	700	230	260	14.48	918
MHEE315LYE4	160	220	1490	94.9	94.43	91.1	0.89	0.87	0.85	261	700	230	260	16.52	1082
MHEE315LYE4	180	240	1480	94.9	94.43	91.12	0.9	0.88	0.86	293	700	200	250	18.92	1110
MHEE315LZE4	200	270	1490	95.1	94.62	91.3	0.89	0.87	0.85	330	700	230	260	18.92	1151
MHEE355MB4	250	340	1490	95.1	95.1	94.2	0.9	0.89	0.83	406.3	700	230	260	27.8	1650
MHEE355LA4	315	425	1490	95.1	95.1	94.2	0.9	0.89	0.83	512	700	230	260	34.8	1670

Note: All performance figures are in accordance with IEC 60034-30-1:2014

IE2

Prima Series (Performance Chart)

Efficiency Class: IE2	
Three-Phase Squirrel Cage Induction Motor	
Voltage	415±10%
Frequency	50±5%
Ambient	50 ^{0}C
Duty	S1
Class of Insulation	F
Type of enclosure	TEFC(IC411)
Temperature Rise	Limited to Class B

1000 r/min (6 Pole)

Frame Size	Output		Speed	Efficiency			Power Factor (Cos φ)			Rated Current	DIRECT-ON-LINE STARTING			Moment of inertia	Net Weight
	kW	HP	r/min	100%	75%	50%	100%	75%	50%	A	Starting Current (%)	Breakaway Torque (%)	Pull-Out Torque (%)	GD^2 (kgm^2)	kg (Approx.)
MHEE71ZAA6	0.18	0.25	860	56.6	56.32	54.35	0.68	0.67	0.65	0.92	600	160	250	0.00103	6.9
MHEE71ZBA6	0.25	0.33	860	61.6	61.29	59.15	0.67	0.66	0.64	1.1	600	160	210	0.0014	7.5
MHEE80ZAA6	0.37	0.5	910	67.6	67.4	65.2	0.7	0.63	0.54	1.1	378	180	210	0.00788	13
MHEE80ZBA6	0.55	0.75	910	73.1	72.9	70	0.71	0.65	0.57	1.5	400	180	220	0.00988	15
MHEE90SAA6	0.75	1	910	75.9	75.9	74.7	0.66	0.6	0.52	2.3	600	220	230	0.0178	22
MHEE90LAA6	1.1	1.5	910	78.1	78.1	76.9	0.71	0.66	0.58	2.8	600	200	220	0.023	22
MHEE100LAA6	1.5	2	930	79.8	79.8	77.8	0.72	0.67	0.59	3.6	600	190	220	0.045	30
MHEE112MAA6	2.2	3	940	81.8	81.8	79.6	0.72	0.67	0.59	5.2	600	230	260	0.0567	39
MHEE112MB A6	3	4	910	83.3	82.88	79.98	0.69	0.68	0.66	7.3	700	225	275	0.0625	42
MHEE132SYA6	3.7	5	950	84.3	84.3	82.8	0.72	0.67	0.6	8.5	600	220	250	0.216	65
MHEE132MZA6	5.5	7.5	970	86	86	85.1	0.73	0.68	0.61	12.2	600	230	260	0.22	66
MHEE160MZA6	7.5	10	970	87.2	87.2	86.3	0.77	0.72	0.65	15.5	650	220	250	0.354	106
MHEE160LYA 6	9.3	12.5	930	88	87.56	84.5	0.77	0.75	0.74	19	700	200	275	0.45	129
MHEE160LZA6	11	15	960	88.7	88.7	87.8	0.77	0.73	0.65	22.4	650	245	300	0.45	133
MHEE180LZG6	15	20	970	89.7	89.7	89	0.8	0.76	0.68	29.1	670	240	280	0.82	152
MHEE200LPG6	18.5	25	970	90.4	90.4	89.2	0.78	0.73	0.66	36.5	650	230	260	1.79	228
MHEE200LRG6	22	30	975	90.9	90.9	89.5	0.79	0.75	0.68	42.6	680	210	230	1.88	230
MHEE225MP6	30	40	975	91.7	91.7	90.8	0.82	0.78	0.71	55.5	700	220	250	3.22	338
MHEE250MP6	37	50	975	92.2	92.2	91.2	0.82	0.78	0.72	68.1	700	230	260	5.2	377
MHEE280SV6	45	60	980	92.7	92.7	91.3	0.85	0.81	0.75	79.5	700	210	250	7.5	575
MHEE280MV6	55	75	980	93.1	93.1	91.5	0.84	0.8	0.74	97.8	700	220	250	8.7	510
MHEE315SYE6	75	100	985	93.7	93.23	89.97	0.85	0.83	0.82	133	700	200	250	16.5	860
MHEE315MYE6	90	125	985	94	93.53	90.26	0.85	0.83	0.82	156	700	200	240	20.78	991
MHEE315MZE6	110	150	985	94.3	93.83	90.54	0.85	0.83	0.82	192	700	200	250	21.8	976
MHEE315LZE6	132	180	985	94.6	94.13	90.83	0.86	0.84	0.83	221	700	200	250	28.1	1130
MHEE315LZF6	160	220	991	94.8	90.06	85.32	0.84	0.82	0.80	280	700	200	250	29.4	1590
MHEE355MC6	200	270	990	95	95	93.2	0.86	0.84	0.8	341	700	220	250	52.8	1614
MHEE355LA6	250	340	990	95	95	93.2	0.86	0.84	0.8	426	700	220	250	56.7	1650

Note: All performance figures are in accordance with IEC 60034-30-1:2014

IE2

Prima Series (Performance Chart)

Efficiency Class: IE2	
Three-Phase Squirrel Cage Induction Motor	
Voltage	415±10%
Frequency	50±5%
Ambient	50 ^{0}C
Duty	S1
Class of Insulation	F
Type of enclosure	TEFC(IC411)
Temperature Rise	Limited to Class B

750 r/min (8 Pole)

Frame Size	Output		Speed	Efficiency			Power Factor	Rated Current	DIRECT-ON-LINE STARTING			Moment of inertia	Net Weight
	kW	HP	r/min	100%	75%	50%	Cos φ	A	Starting Current (%)	Breakaway Torque (%)	Pull-Out Torque (%)	GD^2 (kgm^2)	kg (Approx.)
MHEE71ZAA8	0.12	0.16	650	39.8	39.8	39	0.54	0.8	350	160	210	0.004	8
MHEE80ZAA8	0.25	0.33	670	50.6	50.6	49.2	0.62	1.1	400	160	210	0.008	14
MHEE90SAA8	0.37	0.5	670	56.1	56.1	55.2	0.54	1.7	400	170	230	0.014	21
MHEE90LBA8	0.55	0.75	670	61.7	61.7	61.1	0.51	2.4	430	200	230	0.02	22
MHEE100LAA8	0.75	1	680	66.2	66.2	65.2	0.6	2.6	450	190	240	0.029	30
MHEE100LBA8	1.1	1.5	680	70.8	70.8	70.1	0.6	3.6	450	180	240	0.068	30
MHEE112MAA8	1.5	2	685	74.1	74.1	73	0.64	4.4	450	180	240	0.071	39
MHEE132SZA8	2.2	3	700	77.6	77.6	76.9	0.68	5.8	450	190	250	0.13	58
MHEE132MZA8	3	4	700	80	80	79.2	0.67	7.8	450	190	255	0.16	63
MHEE160MYA8	3.7	5	710	81.4	81.4	80.6	0.63	10	480	190	255	0.51	98
MHEE160MZA8	5.5	7.5	715	83.8	83.8	83	0.75	12.2	480	190	250	0.51	112
MHEE160LZA8	7.5	10	705	85.3	85.3	84.5	0.77	15.9	500	210	255	0.64	133
MHEE180LYG8	9.3	12.5	695	86.3	85.87	82.86	0.61	24.6	600	170	260	0.147	150
MHEE180LZG8	11	15	720	86.9	86.9	86	0.77	22.9	500	220	260	0.92	153
MHEE200LRG8	15	20	720	88	88	87.1	0.78	30.4	500	220	260	1.22	230
MHEE225SP8	18.5	25	725	88.6	88.6	87.8	0.8	36.3	550	230	260	1.87	325
MHEE225MP8	22	30	725	89.1	89.1	88.3	0.79	43.5	600	230	260	2.3	334
MHEE250MP8	30	40	725	89.8	89.8	89	0.8	58.1	650	230	255	4.62	382
MHEE280SV8	37	50	730	90.3	90.3	89.5	0.79	72.2	650	200	240	8.26	565
MHEE280MV8	45	60	730	90.7	90.7	90	0.79	87.4	650	190	220	15.62	578
MHEE315SYE8	55	75	730	91	90.55	87.3	0.8	113	600	190	220	20.5	860
MHEE315MYE8	75	100	730	91.6	91.14	87.95	0.81	147	600	190	210	23.88	996
MHEE315MZE8	90	125	730	91.9	91.44	88.24	0.82	175	600	190	210	27.26	1026
MHEE315LZE8	110	150	730	92.3	91.84	88.62	0.82	209	600	190	210	30.94	1126
MHEE355MA8	132	180	735	92.6	92.6	91.9	0.82	242	650	190	210	33.81	1917
MHEE355MC8	160	220	735	93	93	92.2	0.82	292	650	190	210	44.08	2160
MHEE355LB8	200	270	735	93.5	93.5	92.7	0.82	363	650	190	210	52.64	2178

Note: All performance figures are in accordance with IEC 60034-30-1:2014