

**HM1 Series High Efficiency
Three Phase Asynchronous Induction Motor**

HONGMA

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TECHNICAL DATA

Synchronous Speed: 3000r/min (2 Poles), 50Hz

Type	Output		Speed r/min	Rated current			Efficiency $\eta\%$	Power factor $\cos\phi$	Ts Tn	Tmax Tn	Is In	Noise LwdB(A)	Weight(Iron) Kg	Weight(Alu.) Kg
	Kw	Hp		380V	400V	415V								
HM1 801-2	0.75	1	2840	1.7	1.62	1.56	80.6	0.83	2.2	2.3	6.1	67	17	11.5
HM1 802-2	1.1	1.5	2840	2.4	2.28	2.19	82.9	0.84	3	3.2	8	67	18	13
HM1 90S-2	1.5	2	2840	3.22	3.06	2.95	84.2	0.84	3	3.2	8	72	23	17
HM1 90L-2	2.2	3	2840	4.59	4.36	4.2	85.7	0.85	3	3.2	8	72	26	21
HM1 100L-2	3	4	2860	6.04	5.73	5.53	86.8	0.87	2.8	3.2	8	76	34	23.5
HM1 112M-2	4	5.5	2880	7.87	7.48	7.21	87.7	0.88	2.5	3.2	8	77	41	29.5
HM1 132S1-2	5.5	7.5	2900	10.7	10.2	9.79	88.8	0.88	2.2	3.2	8	80	65	42.5
HM1 132S2-2	7.5	10	2900	14.5	13.7	13.2	89.6	0.88	2.2	3.2	8	80	72	48
HM1 160M1-2	11	15	2930	20.7	19.6	18.9	90.8	0.89	1.9	3	8	86	112	
HM1 160M2-2	15	20	2930	28	26.6	25.6	91.5	0.89	1.9	3	8	86	122	
HM1 160L-2	18.5	25	2930	33.9	32.3	31.1	92	0.9	1.9	3	8	86	136	
HM1 180M-2	22	30	2940	40.2	38.2	36.8	92.3	0.9	1.9	3	8.2	89	172	
HM1 200L1-2	30	40	2950	54.5	51.7	49.9	93	0.9	1.9	3	7.6	92	223	
HM1 200L2-2	37	50	2950	66.8	63.5	61.2	93.5	0.9	1.9	3	7.6	92	242	
HM1 225M-2	45	60	2960	81	76.9	74.2	93.8	0.9	1.8	2.5	7.6	92	326	
HM1 250M-2	55	75	2965	98.6	93.6	90.3	94.2	0.9	1.8	2.5	8.2	93	382	
HM1 280S-2	75	100	2970	134	127	122	94.8	0.9	1.7	2.5	7.6	94	525	
HM1 280M-2	90	125	2970	158	150	145	95.2	0.91	1.7	2.5	7.6	94	570	
HM1 315S-2	110	150	2975	193	183	177	95.2	0.91	1.6	2.2	7.2	96	930	
HM1 315M-2	132	180	2975	231	219	211	95.5	0.91	1.6	2.2	7.2	96	990	
HM1 315L1-2	160	220	2975	276	263	253	95.6	0.92	1.6	2.2	7.2	99	1090	
HM1 315L2-2	200	270	2975	346	329	317	95.5	0.92	1.6	2.2	7.2	99	1120	

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TECHNICAL DATA

Synchronous Speed 1500r/min (4 Poles) 50Hz

Type	Output		Speed r/min	Rated current			Efficiency $\eta\%$	Power factor $\cos\phi$	Ts Tn	Tmax Tn	Is In	Noise LwdB(A)	Weight(Iron) Kg	Weight(Alu.) Kg
	Kw	Hp		380V	400V	415V								
HM1 801-4	0.55	0.75	1390	1.38	1.31	1.26	80.6	0.75	2.4	2.3	5.2	58	18	12.5
HM1 802-4	0.75	1	1390	1.82	1.73	1.67	82.4	0.76	2.4	2.3	6	58	19	14
HM1 90S-4	1.1	1.5	1390	2.59	2.46	2.37	83.9	0.77	2.7	3	7	61	24	18
HM1 90L-4	1.5	2	1390	3.39	3.22	3.11	85.1	0.79	2.7	3	7	61	29	20.5
HM1 100L1-4	2.2	3	1410	4.77	4.53	4.37	86.5	0.81	2.5	2.8	7	64	35	29
HM1 100L2-4	3	4	1410	6.35	6.04	5.82	87.5	0.82	2.5	2.8	7	64	39	34
HM1 112M-4	4	5.5	1435	8.37	7.96	7.67	88.5	0.82	2.2	2.8	7	65	45	38
HM1 132S-4	5.5	7.5	1440	11.3	10.7	10.3	89.3	0.83	2.2	2.8	7	71	70	48
HM1 132M-4	7.5	10	1440	15	14.3	13.8	90.2	0.84	2.2	2.8	7	71	80	58.5
HM1 160M-4	11	15	1460	21.8	20.7	20	91.1	0.84	2.1	2.8	7.5	75	123	
HM1 160L-4	15	20	1460	29.1	27.7	26.7	92	0.85	2.1	2.8	7.5	75	135	
HM1 180M-4	18.5	25	1470	35.4	33.6	32.4	92.3	0.86	2.1	2.8	7.5	76	170	
HM1 180L-4	22	30	1470	41.9	39.8	38.4	92.8	0.86	2.1	2.5	7.5	76	184	
HM1 200L-4	30	40	1470	56.8	54	52	93.3	0.86	2.1	2.5	7.5	79	250	
HM1 225S-4	37	50	1475	68.9	65.4	63.1	93.8	0.87	1.8	2.3	7.5	81	290	
HM1 225M-4	45	60	1475	83.6	79.4	76.6	94	0.87	1.8	2.3	7.5	91	326	
HM1 250M-4	55	75	1480	102	96.7	93.2	94.4	0.87	1.8	2.3	7.5	83	395	
HM1 280S-4	75	100	1480	138	131	126	94.9	0.87	1.8	2.3	7.5	86	515	
HM1 280M-4	90	125	1480	165	157	151	95.2	0.87	1.8	2.3	7.5	86	611	
HM1 315S-4	110	150	1480	199	189	182	95.5	0.88	1.7	2.2	7.2	93	931	
HM1 315M-4	132	180	1480	238	226	218	95.6	0.88	1.7	2.2	7.2	93	1017	
HM1 315L1-4	160	220	1480	285	271	261	95.8	0.89	1.7	2.2	7.2	97	1085	
HM1 315L2-4	200	270	1480	357	339	327	95.6	0.89	1.7	2.2	7.2	97	1200	

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TECHNICAL DATA

Synchronous Speed 1000r/min (6 Poles) 50Hz

Type	Output		Speed r/min	Rated Current			Efficiency $\eta\%$	Power factor $\cos\phi$	Ts Tn	Tmax Tn	Is In	Noise LwdB(A)	Weight(Iron) Kg	Weight(Alu.) Kg
	Kw	Hp		380V	400V	415V								
HM1 801-6	0.37	0.5	885	1.29	1.23	1.18	62	0.7	1.9	2	4.7	52	16	11
HM1 802-6	0.55	0.75	885	1.54	1.46	1.41	75.5	0.72	1.9	2.1	4.7	52	20	14
HM1 90S-6	0.75	1	910	2.03	1.93	1.86	77.8	0.72	2.5	2.5	5.5	55	24	18
HM1 90L-6	1.1	1.5	910	2.86	2.72	2.62	80	0.73	2.5	2.5	5.5	55	26	20.5
HM1 100L-6	1.5	2	920	3.72	3.53	3.41	81.7	0.75	2.2	2.5	5.5	59	34	27.5
HM1 112M-6	2.2	3	935	5.26	5	4.82	83.6	0.76	2.2	2.5	5.5	63	44	30.5
HM1 132S-6	3	4	960	7.05	6.7	6.45	85.1	0.76	2.1	2.5	5.5	67	68	40
HM1 132M1-6	4	5.5	960	9.27	8.8	8.48	86.3	0.76	2.1	2.5	6	67	74	48.5
HM1 132M2-6	5.5	7.5	960	12.4	11.8	11.3	87.6	0.77	2.1	2.5	6	67	85	58
HM1 160M-6	7.5	10	970	16.6	15.8	15.2	89.2	0.77	2.1	2.5	6	71	135	
HM1 160L-6	11	15	970	23.8	22.6	21.8	90.2	0.78	2.1	2.5	6.5	71	149	
HM1 180L-6	15	20	970	30.9	29.3	28.2	91.2	0.81	2.1	2.5	6.5	71	183	
HM1 200L1-6	18.5	25	980	37.8	36	34.7	91.7	0.81	2.1	2.5	7	74	219	
HM1 200L2-6	22	30	980	43.7	41.5	40	92.2	0.83	2.1	2.5	7	74	233	
HM1 225M-6	30	40	980	58.6	55.7	53.7	92.6	0.84	1.8	2	7	74	296	
HM1 250M-6	37	50	980	70.1	66.6	64.2	93.2	0.86	1.8	2	7	76	380	
HM1 280S-6	45	60	980	84.8	80.6	77.7	93.7	0.86	1.8	2	7	78	498	
HM1 280M-6	55	75	980	103	98.2	94.7	94	0.86	1.8	2	7	78	545	
HM1 315S-6	75	100	985	140	133	128	94.6	0.86	1.8	2	7	83	915	
HM1 315M-6	90	125	985	167	159	153	95	0.86	1.8	2	7	83	993	
HM1 315L1-6	110	150	985	204	194	187	95.2	0.86	1.8	2	7	83	1065	
HM1 315L2-6	132	180	985	241	229	221	95.5	0.87	1.8	2	7	83	1185	

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Synchronous Speed 750r/min (8 Poles) 50Hz

Type	Output		Speed r/min	Rated current			Efficiency $\eta\%$	Power factor $\cos\phi$	Ts Tn	Tmax Tn	Is In	Noise LwdB(A)	Weight(Iron) Kg	Weight(Alu.) Kg
	Kw	Hp		380V	400V	415V								
HM1 801-8	0.18	0.25	645	0.88	0.83	0.8	51	0.61	1.8	1.9	3.3	52	17	13
HM1 802-8	0.25	0.37	645	1.57	1.09	1.05	54	0.61	1.8	1.9	3.3	52	19	15
HM1 90S-8	0.37	0.5	670	1.49	1.41	1.36	62	0.61	1.8	1.9	4.9	56	24	19
HM1 90L-8	0.55	0.75	670	2.17	2.06	1.99	63	0.61	1.8	2	4	56	26	21
HM1 100L1-8	0.75	1	680	2.31	2.2	2.12	73.6	0.67	1.8	2	4	59	33	28
HM1 100L2-8	1.1	1.5	680	3.17	3.01	2.9	76.5	0.69	1.8	2	5	59	36	30
HM1 112M-8	1.5	2	690	4.2	3.99	3.85	78.6	0.69	1.8	2	5	61	43	31
HM1 132S-8	2.2	3	705	5.81	5.51	5.32	81.1	0.71	1.8	2	6	64	68	41
HM1 132M-8	3	4	705	7.54	7.16	6.91	82.8	0.73	1.8	2	6	64	83	58
HM1 160M1-8	4	5.5	720	9.86	9.37	9.03	84.4	0.73	1.9	2	6	68	133	
HM1 160M2-8	5.5	7.5	720	13.1	12.5	12	86	0.74	2	2	6	68	155	
HM1 160L-8	7.5	10	720	17.4	16.5	15.9	87.3	0.75	2	2	6	68	160	
HM1 180L-8	11	15	730	24.7	23.5	22.6	89	0.76	2	2	6	70	173	
HM1 200L-8	15	20	730	33.2	31.6	30.4	90.2	0.76	2	2	6.6	73	234	
HM1 225S-8	18.5	25	730	40.7	38.7	37.3	90.8	0.76	1.9	2	6.6	73	276	
HM1 225M-8	22	30	730	46.9	44.5	42.9	91.4	0.78	1.9	2	6.6	73	298	
HM1 250M-8	30	40	735	62.5	59.4	57.2	92.3	0.79	1.9	2	6.6	75	375	
HM1 280S-8	37	50	735	76.6	72.8	70.1	92.9	0.79	1.9	2	6.6	76	480	
HM1 280M-8	45	60	735	92.7	88	84.8	93.4	0.79	1.8	2	6.6	76	560	
HM1 315S-8	55	75	735	110	104	101	93.8	0.81	1.8	2	6.6	82	915	
HM1 315M-8	75	100	735	149	141	136	94.5	0.81	1.8	2	6.6	82	1040	
HM1 315L1-8	90	125	735	176	167	161	94.8	0.82	1.8	2	6.6	82	1083	
HM1 315L2-8	110	150	735	214	203	196	95.3	0.82	1.8	2	6.4	82	1130	