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Y series A.C. Motors (H63~355)

SIMO IMPORT & EXPORT CORP., LTD.

Brief introduction for Y series motors

Brief Introduction

Y series motors are totally enclosed fan cooling (TEFC) three phase squirrel cage induction motors. The motors are widely used in the field such as machine tools, pumps, blowers, compressors, etc.

Mounting dimension and rated output of the motors conform to IEC standard.

Base features as follow:

Rated voltage: 380V

Rated frequency: 50Hz

Protection degree: IP44

Cooling method: IC411

Insulation class: B

Ambient temperature: -15℃～40℃

Altitude: not exceed 1000 meters

Technical Data see the following list.

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque / Rated torque	Min. torque / Rated torque	Locked torque / Rated torque	Locked current / Rated current	Noice / No load	Viberation
	kW	A	r/min	%	cosΦ					dB(A)	mm/s
2 poles											
Y-63M1-2	0.18	0.5	2820	65.0	0.80	2.2	1.6	2.2	5.5	61	1.8
Y-63M2-2	0.25	0.7	2820	68.0	0.81	2.2.	1.6	2.2	5.5	61	1.8
Y-71M1-2	0.37	1.0	2820	70.0	0.81	2.2	1.6	2.2	6.1	64	1.8
Y-71M2-2	0.55	1.4	2820	73.0	0.82	2.3	1.6	2.2	6.1	64	1.8
Y-80M1-2	0.75	1.8	2830	75.0	0.83	2.3	1.5	2.2	6.1	67	1.8
Y-80M2-2	1.1	2.6	2830	77.0	0.84	2.3	1.5	2.2	7.0	67	1.8
Y-90S-2	1.5	3.4	2840	79.0	0.84	2.3	1.5	2.2	7.0	72	1.8
Y-90L-2	2.2	4.9	2840	81.0	0.85	2.3	1.4	2.2	7.0	72	1.8
Y-100L-2	3	6.3	2880	83.0	0.87	2.3	1.4	2.2	7.5	76	1.8
Y-112M-2	4	8.1	2890	85.0	0.88	2.3	1.4	2.2	7.5	77	1.8
Y-132S1-2	5.5	11.0	2900	86.0	0.88	2.3	1.2	2.2	7.5	80	1.8
Y-132S2-2	7.5	14.9	2900	87.0	0.88	2.3	1.2	2.2	7.5	80	1.8
Y-160M1-2	11	21.3	2930	88.0	0.89	2.3	1.2	2.2	7.5	86	2.8
Y-160M2-2	15	38.8	2930	89.0	0.89	2.3	1.2	2.2	7.5	86	2.8
Y-160L-2	18.5	34.7	2930	90.0	0.90	2.3	1.1	2.2	7.5	86	2.8
Y-180M-2	22	41.0	2940	90.0	0.90	2.3	1.1	2.0	7.5	89	2.8
Y-200L1-2	30	55.5	2950	91.2	0.90	2.3	1.1	2.0	7.5	92	2.8
Y-200L2-2	37	67.9	2950	92.0	0.90	2.3	1.1	2.0	7.5	92	2.8
Y-225M-2	45	82.3	2960	92.3	0.90	2.3	1.0	2.0	7.5	92	2.8
Y-250M-2	55	101.0	2970	92.5	0.90	2.3	1.0	2.0	7.5	93	3.5
Y-280S-2	75	134.4	2970	93.0	0.90	2.3	0.9	2.0	7.5	94	3.5
Y-280M-2	90	160.2	2970	93.8	0.91	2.3	0.9	2.0	7.5	94	3.5
Y-315S-2	110	195.0	2980	94.0	0.91	2.2	0.9	1.8	7.1	96	3.5
Y-315M-2	132	233	2980	94.5	0.91	2.2	0.9	1.8	7.1	96	3.5
Y-315L1-2	160	279	2980	94.6	0.92	2.2	0.9	1.8	7.1	99	3.5
Y-315L2-2	200	348	2980	94.8	0.92	2.2	0.8	1.8	7.1	99	3.5
Y-355M-2	250	433	2980	95.3	0.92	2.2	0.8	1.6	7.1	103	3.5
Y-355L-2	315	544	2980	95.6	0.92	2.2	0.8	1.6	7.1	103	3.5

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque / Rated torque	Min. torque / Rated torque	Locked torque / Rated torque	Locked current / Rated current	Noice / No load	Viberation
	kW	A	r/min	%	cosΦ					dB(A)	mm/s
4 poles											
Y-63M1-4	0.12	0.4	1370	57.0	0.72	2.2	1.7	2.1	4.4	52	1.8
Y-63M2-4	0.18	0.6	1370	60.0	0.73	2.2	1.7	2.1	4.4	52	1.8
Y-71M1-4	0.25	0.8	1380	65.0	0.74	2.2	1.7	2.1	5.2	55	1.8
Y-71M2-4	0.37	1.0	1380	67.0	0.75	2.2	1.7	2.1	5.2	55	1.8
Y-80M1-4	0.55	1.6	1390	71.0	0.75	2.3	1.7	2.4	5.2	58	1.8
Y-80M2-4	0.75	2.0	1390	73.0	0.76	2.3	1.6	2.3	6.0	58	1.8
Y-90S-4	1.1	2.9	1400	75.0	0.77	2.3	1.6	2.3	6.0	60	1.8
Y-90L-4	1.5	3.7	1400	78.0	0.79	2.3	1.6	2.3	6.0	60	1.8
Y-100L1-4	2.2	5.2	1430	80.0	0.81	2.3	1.5	2.3	7.0	64	1.8
Y-100L2-4	3	6.8	1430	82.0	0.82	2.3	1.5	2.3	7.0	64	1.8
Y-112M-4	4	8.8	1440	84.0	0.82	2.3	1.5	2.3	7.0	65	1.8
Y-132S-4	5.5	11.8	1440	85.0	0.83	2.3	1.4	2.3	7.0	71	1.8
Y-132M-4	7.5	15.6	1440	87.0	0.84	2.3	1.4	2.3	7.0	71	1.8
Y-160M-4	11	22.3	1460	88.0	0.84	2.3	1.4	2.2	7.0	75	2.8
Y-160L-4	15	30.1	1460	89.0	0.85	2.3	1.4	2.2	7.5	75	2.8
Y-180M-4	18.5	36.5	1470	80.5	0.86	2.3	1.2	2.2	7.5	76	2.8
Y-180L-4	22	43.2	1470	91.0	0.86	2.3	1.2	2.2	7.5	76	2.8
Y-200L-4	30	57.6	1470	92.0	0.86	2.3	1.2	2.2	7.2	79	2.8
Y-225S-4	37	69.9	1475	92.5	0.87	2.3	1.2	2.2	7.2	81	2.8
Y-225M-4	45	84.7	1475	92.8	0.87	2.3	1.1	2.2	7.2	81	2.8
Y-250M-4	55	103.0	1480	93.0	0.87	2.3	1.1	2.2	7.2	83	3.5
Y-280S-4	75	139.6	1480	93.8	0.87	2.3	1.0	2.2	7.2	86	3.5
Y-280M-4	90	166.9	1480	94.2	0.87	2.3	1.0	2.2	7.2	86	3.5
Y-315S-4	110	201	1480	94.5	0.88	2.2	1.0	2.1	6.9	93	3.5
Y-315M-4	132	240	1480	94.8	0.88	2.2	1.0	2.1	6.9	93	3.5
Y-315L1-4	160	287	1480	94.9	0.89	2.2	1.0	2.1	6.9	97	3.5
Y-315L2-4	200	359	1480	95.0	0.89	2.2	0.9	2.1	6.9	97	3.5
Y-355M-4	250	443	1480	95.3	0.90	2.2	0.9	2.1	6.9	101	3.5
Y-355L-4	315	556	1480	95.6	0.90	2.2	0.8	2.1	6.9	101	3.5

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque / Rated torque	Min. torque / Rated torque	Locked torque / Rated torque	Locked current / Rated current	Noice / No load	Viberation
	kW	A	r/min	%	cosΦ					dB(A)	mm/s
6 poles											
Y-71M1-6	0.18	0.7	900	56.0	0.66	2	1.5	1.9	4	52	1.8
Y-71M2-6	0.25	1.0	900	59.0	0.68	2	1.5	1.9	4	52	1.8
Y-80M1-6	0.37	1.3	900	62.0	0.7	2	1.5	1.9	4.7	54	1.8
Y-80M2-6	0.55	1.8	900	65.0	0.72	2.1	1.5	1.9	4.7	54	1.8
Y-90S-6	0.75	2.3	910	69.0	0.72	2.1	1.5	2	5.5	57	1.8
Y-90L-6	1.1	3.2	910	72.0	0.73	2.1	1.3	2	5.5	57	1.8
Y-100L-6	1.5	3.9	940	76.0	0.75	2.1	1.3	2	5.5	61	1.8
Y-112M-6	2.2	5.6	940	79.0	0.76	2.1	1.3	2	6.5	65	1.8
Y-132S-6	3	7.4	960	81.0	0.76	2.1	1.3	2.1	6.5	69	1.8
Y-132M1-6	4	9.8	960	82.0	0.76	2.1	1.3	2.1	6.5	69	1.8
Y-132M2-6	5.5	12.9	960	84.0	0.77	2.1	1.3	2.1	6.5	69	1.8
Y-160M-6	7.5	17.0	970	86.0	0.77	2.1	1.3	2	6.5	73	2.8
Y-160L-6	11	24.2	970	87.5	0.78	2.1	1.2	2	6.5	73	2.8
Y-180M-6	15	31.6	970	89.0	0.81	2.1	1.2	2	7.0	73	2.8
Y-200L1-6	18.5	38.6	980	90.0	0.81	2.1	1.2	2.1	7.0	76	2.8
Y-200L2-6	22	44.7	980	90.0	0.83	2.1	1.2	2.1	7.0	76	2.8
Y-225M-6	30	59.3	980	91.5	0.84	2.1	1.2	2	7.0	76	2.8
Y-250M-6	37	71.0	980	92.0	0.86	2.1	1.2	2.1	7.0	78	3.5
Y-280S-6	45	85.9	980	92.5	0.86	2.0	1.1	2.1	7.0	80	3.5
Y-280M-6	55	104.7	980	92.8	0.86	2.0	1.1	2.1	7.0	80	3.5
Y-315S-6	75	141	980	93.5	0.86	2.0	1.0	2	7.0	85	3.5
Y-315M-6	90	169	980	93.8	0.86	2.0	1.0	2	7.0	85	3.5
Y-315L1-6	110	206	980	94.0	0.86	2.0	1.0	2	6.7	85	3.5
Y-315L2-6	132	244	980	94.2	0.87	2.0	1.0	2	6.7	85	3.5
Y-355M1-6	160	292	980	94.5	0.88	2.0	1.0	1.9	6.7	92	3.5
Y-355M2-6	200	365	980	94.7	0.88	2.0	0.9	1.9	6.7	92	3.5
Y-355L-6	250	455	980	94.9	0.88	2.0	0.9	1.9	6.7	92	3.5

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque / Rated torque	Min. torque / Rated torque	Locked torque / Rated torque	Locked current / Rated current	Noice / No load	Viberation
	kW	A	r/min	%	cosΦ					dB(A)	mm/s
8 poles											
Y-80M1-8	0.18	0.9	700	51.0	0.61	1.9	1.3	1.8	3.3	52	1.8
Y-80M2-8	0.25	1.2	700	54.0	0.61	1.9	1.3	1.8	3.3	52	1.8
Y-90S-8	0.37	1.5	700	62.0	0.61	1.9	1.3	1.8	4.0	56	1.8
Y-90L-8	0.55	2.2	700	63.0	0.61	2.0	1.3	1.8	4.0	56	1.8
Y-100L1-8	0.75	2.4	700	71.0	0.67	2.0	1.3	1.8	4.0	59	1.8
Y-100L2-8	1.1	3.4	700	73.0	0.69	2.0	1.2	1.8	5.0	59	1.8
Y-112M-8	1.5	4.5	710	75.0	0.69	2.0	1.2	1.8	5.0	61	1.8
Y-132S-8	2.2	6.0	710	78.0	0.71	2.0	1.2	1.8	5.0	64	1.8
Y-132M-8	3	7.9	710	79.0	0.73	2.0	1.2	1.8	6.0	64	1.8
Y-160M1-8	4	10.3	720	81.0	0.73	2.0	1.2	1.9	6.0	68	2.8
Y-160M2-8	5.5	13.6	720	83.0	0.74	2.0	1.2	2.0	6.0	68	2.8
Y-160L-8	7.5	17.8	720	85.5	0.75	2.0	1.2	2.0	6.0	68	2.8
Y-180L-8	11	25.1	730	87.5	0.70	2.0	1.2	2.0	6.6	70	2.8
Y-200L-8	15	34.1	730	88.0	0.76	2.0	1.1	2.0	6.6	73	2.8
Y-225S-8	18.5	41.4	730	90.0	0.76	2.0	1.1	1.9	6.6	73	2.8
Y-225M-8	22	47.4	730	90.5	0.78	2.0	1.1	1.9	6.6	73	2.8
Y-250M-8	30	64.0	730	91.0	0.79	2.0	1.1	1.9	6.6	75	3.5
Y-280S-8	37	77.8	740	91.5	0.79	2.0	1.1	1.9	6.6	76	3.5
Y-280M-8	45	94.1	740	92.0	0.79	2.0	1.0	1.9	6.6	76	3.5
Y-315S-8	55	111	740	92.8	0.81	2.0	1.0	1.8	6.6	82	3.5
Y-315M-8	75	151	740	93.0	0.81	2.0	0.9	1.8	6.6	82	3.5
Y-315L1-8	90	178	740	93.8	0.82	2.0	0.9	1.8	6.6	82	3.5
Y-315L2-8	110	217	740	94.0	0.82	2.0	0.9	1.8	6.4	82	3.5
Y-355M1-8	132	261	740	93.7	0.82	2.0	0.9	1.8	6.4	90	3.5
Y-355M2-8	160	315	740	94.2	0.82	2.0	0.9	1.8	6.4	90	3.5
Y-355L-8	200	388	740	94.5	0.83	2.0	0.9	1.8	6.4	90	3.5
10 poles											
Y-315S-10	45	100	590	91.5	0.75	2.0	0.8	1.5	6.2	82	3.5
Y-315M-10	55	121	590	92.0	0.75	2.0	0.8	1.5	6.2	82	3.5
Y-315L1-10	75	162	590	92.5	0.76	2.0	0.8	1.5	6.2	82	3.5
Y-315L2-10	90	191	590	93.0	0.77	2.0	0.8	1.5	6.2	82	3.5
Y-355M1-10	110	230	590	93.2	0.78	2.0	0.8	1.3	6.0	90	3.5
Y-355M2-10	132	275	590	93.5	0.78	2.0	0.8	1.3	6.0	90	3.5
Y-355L-10	160	334	590	93.5	0.78	2.0	0.8	1.3	6.0	90	3.5