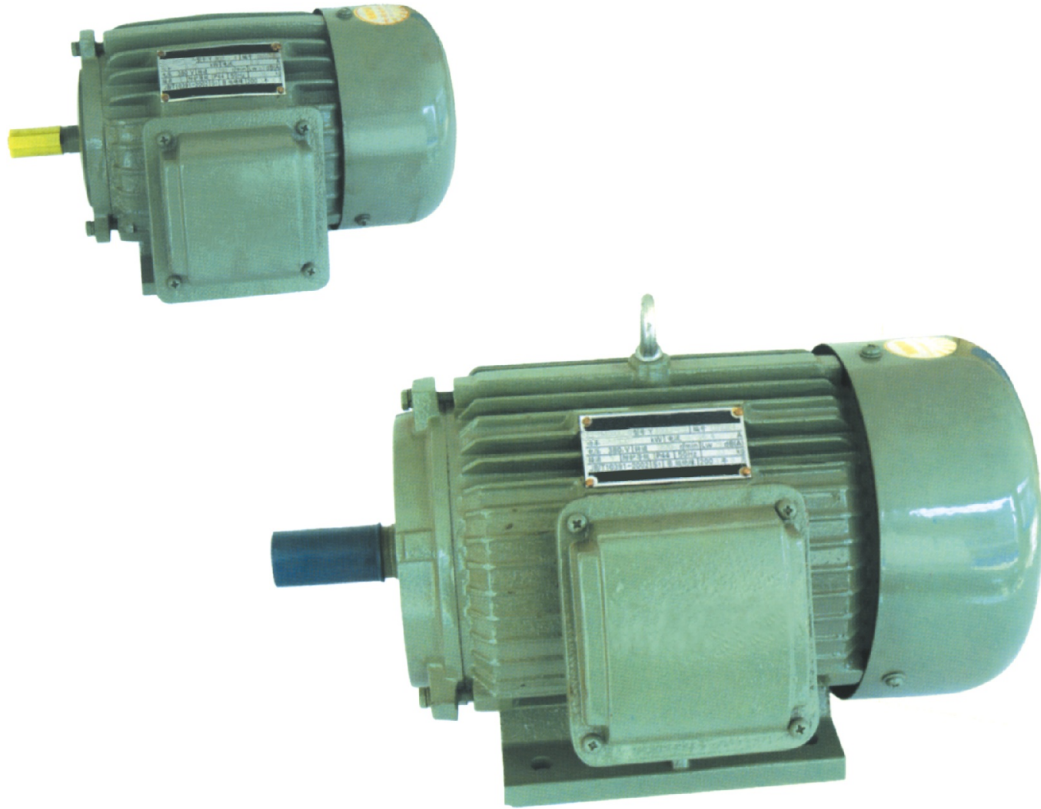


# Y Series three-Phase asynchronous Motors



## General introduction

Y series motors are low-voltage three-phase asynchronous motors, which are basic series for general purpose. This series motors can meet requirements for general purpose interiorly and overseas with frame range from 80 to 315. This series motors designed according to the national unified standard.

Y series motors have the advantages of high efficiency, energy saving, excellent operation performance, small vibration, lower noise, long service life, high reliability and easy maintenance. Mounting dimensions and the power grade completely conform to IEC standard. They are in class B insulation, IP 44 degree for protection and cooling mode of IC411. The rated voltage and frequency of Y series are respectively 380V and 50HZ. Y connection is adopted for motors below 3KW (3KW included) and  $\Delta$  connection is adopted for those above 4KW( 4KW included).

Y series motors are commonly applied in machinery equipment without any special requirement.

# Y Series three-Phase asynchronous Motors

## Technical data of Y series

Type	(kw)	IN (A)	NN (rpm)	$\eta$ (%)	Cos $\phi$	Tst/TN	Ist/IN	Tmin/TN	Tmax/TN
<b>380V 50HZ 2P</b>									
Y80M1-2	0.75	1.8	2830	75.0	0.84	2.2	6.5	1.5	2.3
Y80M2-2	1.1	2.5	2830	77.0	0.86	2.2	7.0	1.5	2.3
Y90S-2	1.5	3.4	2840	78.0	0.85	2.2	7.0	1.5	2.3
Y90L-2	2.2	4.7	2840	80.5	0.86	2.2	7.0	1.4	2.3
Y100L-2	3	6.4	2870	82.0	0.87	2.2	7.0	1.4	2.3
Y112M-2	4	8.2	2890	85.5	0.87	2.2	7.0	1.4	2.3
Y132S1-2	5.5	11	2900	85.5	0.88	2.0	7.0	1.2	2.3
Y132S2-2	7.5	15	2900	86.2	0.88	2.0	7.0	1.2	2.3
Y160M1-2	11	22	2930	87.2	0.88	2.0	7.0	1.2	2.3
Y160M2-2	15	29	2930	88.2	0.88	2.0	7.0	1.2	2.3
Y160L-2	18.5	36	2930	89.0	0.89	2.0	7.0	1.1	2.2
Y180M-2	22	42	2940	89.0	0.89	2.0	7.0	1.1	2.2
Y200L1-2	30	57	2940	90.0	0.89	2.0	7.0	1.1	2.2
Y220L2-2	37	70	2950	90.5	0.89	2.0	7.0	1.1	2.2
Y225M-2	45	84	2970	91.5	0.89	2.0	7.0	1.0	2.2
Y250M-2	55	103	2970	91.5	0.89	2.0	7.0	1.0	2.2
Y280S-2	75	140	2970	92.0	0.89	2.0	7.0	0.9	2.2
Y280M-2	90	167	2970	92.5	0.89	2.0	7.0	0.9	2.2
Y315S-2	110	200	2980	92.5	0.89	1.8	6.8	0.9	2.2
Y315M-2	132	237	2980	93.0	0.89	1.8	6.8	0.9	2.2
Y315L1-2	160	286	2980	93.5	0.89	1.8	6.8	0.9	2.2
Y315L2-2	200	356	2980	93.5	0.89	1.8	6.8	0.8	2.2
<b>380V 50HZ 4P</b>									
Y80M1-4	0.55	1.5	1390	73.0	0.76	2.4	6.0	1.7	2.3
Y80M2-4	0.75	2.0	1390	74.5	0.76	2.3	6.0	1.6	2.3
Y90S-4	1.1	2.8	1400	78.0	0.78	2.3	6.5	1.6	2.3
Y90L-4	1.5	3.7	1400	79.0	0.79	2.3	6.5	1.6	2.3
Y100L1-4	2.2	5.0	1430	81.0	0.82	2.2	7.0	1.5	2.3
Y100L2-4	3	6.8	1430	82.5	0.81	2.2	7.0	1.5	2.3
Y112M-4	4	8.8	1400	84.5	0.82	2.2	7.0	1.5	2.3
Y132S-4	5.5	12	1400	85.5	0.84	2.2	7.0	1.4	2.3
Y132M-4	7.5	15	1400	87.0	0.85	2.2	7.0	1.4	2.3
Y160M-4	11	23	1460	88.0	0.84	2.2	7.0	1.4	2.3
Y160L-4	15	30	1460	88.5	0.85	2.2	7.0	1.4	2.3
Y180M-4	18.5	36	1470	91.0	0.86	2.0	7.0	1.2	2.2
Y180L-4	22	43	1470	91.5	0.86	2.0	7.0	1.2	2.2
Y200L-4	30	57	1470	92.2	0.87	2.0	7.0	1.2	2.2
Y225S-4	37	70	1480	91.8	0.87	1.9	7.0	1.2	2.2
Y225M-4	45	84	1480	92.3	0.88	1.9	7.0	1.1	2.2
Y250M-4	55	103	1480	92.6	0.88	2	7.0	1.1	2.2
Y280S-4	75	140	1480	92.7	0.88	1.9	7.0	1.0	2.2
Y280M-4	90	164	1480	93.5	0.89	1.9	7.0	1.0	2.2

Type	(kw)	IN (A)	NN (rpm)	$\eta$ (%)	Cos $\phi$	Tst/TN	Ist/TN	Tmin/IN	Tmax/TN
Y315S-4	110	201	1480	93.5	0.89	1.8	6.8	1.0	2.2
Y315M-4	132	241	1490	94.0	0.89	1.8	6.8	1.0	2.2
Y315L1-4	160	291	1490	94.5	0.89	1.8	6.8	1.0	2.2
Y315L2-4	200	354	1490	94.5	0.89	1.8	6.8	0.9	2.2
<b>380V 50HZ 6P</b>									
Y80M-6	0.55	1.8	910	71.5	0.70	2.0	5.5	1.5	2.2
Y90S-6	0.75	2.3	910	72.5	0.70	2.0	5.5	1.5	2.2
Y90L-6	1.1	3.2	910	73.5	0.72	2.0	5.5	1.3	2.2
Y100L-6	1.5	4.0	940	77.5	0.74	2.0	6.0	1.3	2.2
Y112M-6	2.2	5.6	940	80.5	0.74	2.0	6.0	1.3	2.2
Y132S-6	3	7.2	960	83.0	0.76	2.0	6.5	1.3	2.2
Y132M1-6	4	9.4	960	84.0	0.77	2.0	6.5	1.3	2.2
Y132M2-6	5.5	13	960	85.3	0.78	2.0	6.5	1.3	2.2
Y160M-6	7.5	17	970	86.0	0.78	2.0	6.5	1.3	2.0
Y160L-6	11	25	970	87.0	0.78	2.0	6.5	1.2	2.0
Y180L-6	15	31	970	89.5	0.81	1.8	6.5	1.2	2.0
Y200L1-6	18.5	38	970	89.8	0.83	1.8	6.5	1.2	2.0
Y200L2-6	22	45	970	90.2	0.83	1.8	6.5	1.2	2.0
Y225M-6	30	60	980	90.2	0.85	1.7	6.5	1.2	2.0
Y250M-6	37	72	980	90.8	0.86	1.8	6.5	1.2	2.0
Y280S-6	45	85	980	92.0	0.87	1.8	6.5	1.1	2.0
Y280M-6	55	104	980	92.0	0.87	1.8	6.5	1.1	2.0
Y315S-6	75	141	990	92.8	0.87	1.6	6.5	1.0	2.0
Y315M-6	90	168	990	93.2	0.87	1.6	6.5	1.0	2.0
Y315L1-6	110	204	990	93.5	0.87	1.6	6.5	1.0	2.0
Y315L2-6	132	245	990	93.8	0.87	1.6	6.5	1.0	2.0
<b>380V 50HZ 8P</b>									
Y132S-8	2.2	5.6	710	80.5	0.71	2.0	5.5	1.2	2.0
Y132M-8	3	7.3	710	82.0	0.72	2.0	5.5	1.2	2.0
Y160M1-8	4	9.5	715	84.0	0.73	2.0	6.0	1.2	2.0
Y160M2-8	5.5	12.7	715	85.0	0.74	2.0	6.0	1.2	2.0
Y160L-8	7.5	17.0	715	86.09	0.75	2.0	5.5	1.2	2.0
Y180L-8	11	24.4	730	87.0	0.77	1.7	6.0	1.1	2.0
Y200L-8	15	32.9	730	88.0	0.76	1.8	6.0	1.1	2.0
Y225S-8	18.5	39.7	735	89.5	0.76	1.7	6.0	1.1	2.0
Y225M-8	22	46.4	735	90.0	0.78	1.8	6.0	1.1	2.0
Y250M-8	30	61.6	735	90.5	0.80	1.8	6.0	1.1	2.0
Y280S-8	37	76.1	740	91.0	0.79	1.8	6.0	1.1	2.0
Y280M-8	45	90.8	740	91.7	0.80	1.8	6.0	1.0	2.0
Y315S-8	55	111	740	92.0	0.80	1.6	6.5	1.0	2.0
Y315M-8	75	150	740	92.5	0.81	1.6	6.5	0.9	2.0
Y315L1-8	90	179	740	93.0	0.82	1.6	6.5	0.9	2.0
Y315L2-8	110	219	740	93.3	0.82	1.6	6.3	0.9	2.0