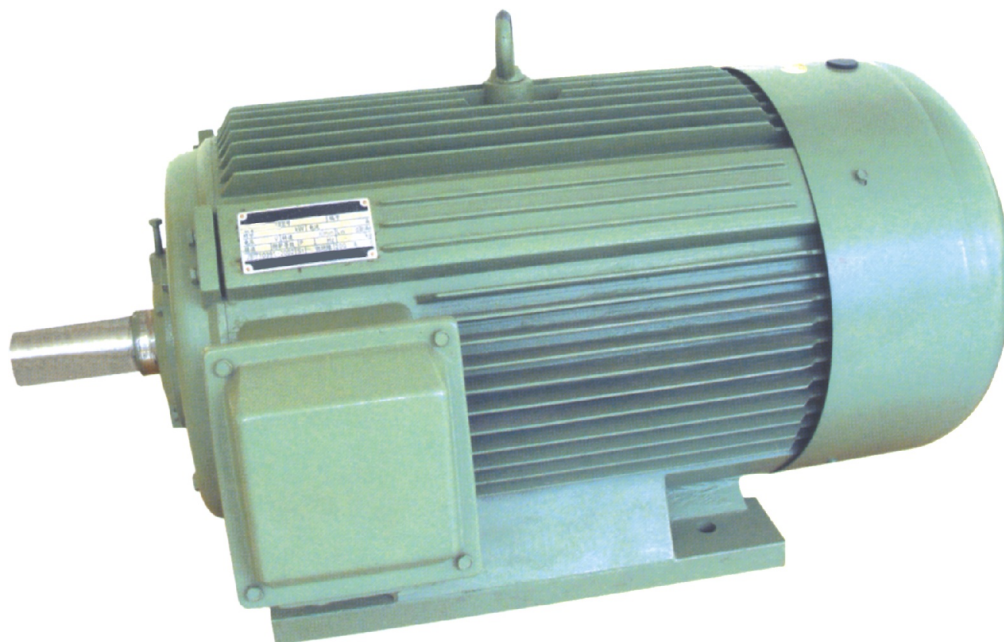


# YD Series multi-speed three-Phase asynchronous Motors



## General introduction

This series motors are designed and manufactured under incorporating the advantages of the worldwide counterparts, and are in full conformity with international standard of IEC. This series motors used the method of changing the pole numbers to carry out speed adjustment so that they have excellent features like small volume, lighter weight, low noise, well starting performance, reliable operation, easy maintenance, etc. The main technical indexes have reached the international technical standard.

The series motors are widely used in various mechanical equipment which need stepped speed adjustment; It enable the equipments to have compact structure, lower noise and ability of energy saving.

Simultaneously, multi-speed motors with special specification can be designed and manufactured according to the requirements of customer, such as multi-speed three-phase asynchronous motor for YDT fans and pumps. Degree of protection: IP44, or IP54, or IP55; Rated voltage: 380V, rated frequency: 50HZ.

# YD Series multi-speed three-Phase asynchronous Motors

## Technical data of Y series

Type	Output (kw)	Current (A)	Speed (r/min)	$\eta$ (%)	Power factor (cos $\phi$ )	Locked-rotor torque Rated torque	Locked-rotor Current Rated current	Pull-out torque Rated torque
YD801-	4 0.45	1.4	1420	66	0.74	1.5	6.5	1.8
	2 0.55	1.5	2860	65	0.85	1.6	7	1.8
YD802-	4 0.55	1.7	1420	68	0.74	1.5	6.5	1.8
	2 0.75	2.0	2860	66	0.85	1.6	7	1.8
YD90S-	4 0.85	2.3	1430	74	0.77	1.5	6.5	1.8
	2 1.1	2.8	2850	73	0.84	1.6	7	1.8
YD90L-	4 1.3	3.3	1430	76	0.78	1.5	6.5	1.8
	2 1.8	4.3	2850	74	0.84	1.6	7	1.8
YD100L-	4 2	4.8	1430	78	0.81	1.5	6.5	1.8
	2 2.4	5.6	2850	76	0.86	1.6	7	1.8
YD100L2-	4 2.4	5.6	1430	79	0.83	1.5	6.5	1.8
	2 3.0	6.7	2850	77	0.89	1.6	7	1.8
YD112M-	4 3.3	7.4	1450	81	0.83	1.5	6.5	1.8
	2 4.0	8.6	2860	80	0.88	1.6	7	1.8
YD132S-	4 4.5	9.8	1450	83	0.84	1.5	6.5	1.8
	2 5.5	11.9	2860	79	0.88	1.6	7	1.8
YD132M-	4 6.5	13.8	1450	84	0.85	1.5	6.5	1.8
	2 8	17.1	2880	80	0.89	1.6	7	1.8
YD160M-	4 9	18.5	1460	87	0.85	1.6	6.5	1.8
	2 11	22.9	2920	82	0.89	1.6	7	1.8
YD160L-	4 11	22.3	1460	87	0.86	1.5	6.5	1.8
	2 14	28.8	2920	82	0.90	1.6	7	1.8
YD180M-	4 15	29.4	1470	89	0.87	1.5	6.5	1.8
	2 18.5	36.7	2940	85	0.90	1.6	7	1.8
YD180L-	4 18.5	35.9	1470	89	0.88	1.5	6.5	1.8
	2 22	42.7	2940	86	0.91	1.6	7	1.8
YD200L-	4 26	49.9	1470	89	0.89	1.4	6.5	1.8
	2 30	58.3	2950	85	0.92	1.4	7	1.8
YD225S-	4 32	60.7	1480	90	0.89	1.4	6.5	1.8
	2 37	71.7	2960	86	0.92	1.4	7	1.8
YD225M-	4 37	69.4	1480	91	0.89	1.4	6.5	1.8
	2 45	86.4	2960	87	0.92	1.4	7	1.8
YD250M-	4 45	84.4	1480	91	0.89	1.4	6.5	1.8
	2 55	103.2	2960	88	0.92	1.4	7	1.8
YD280S-	4 60	111.3	1480	91	0.90	1.4	6.5	1.8
	2 72	135.1	2970	88	0.92	1.4	7	1.8
YD280M-	4 72	133.6	1480	91	0.90	1.4	6.5	1.8
	2 82	152.2	2970	88	0.93	1.4	7	1.8
YD90S-	6 0.65	2.2	920	64	0.70	1.4	6	1.8
	4 0.85	2.3	1420	70	0.79	1.4	6.5	1.8
YD90L-	6 0.85	2.8	930	66	0.70	1.4	6	1.8
	4 1.1	3.0	1420	71	0.79	1.3	6.5	1.8
YD100L1-	6 1.3	3.8	940	74	0.70	1.4	6	1.8
	4 1.8	4.4	1440	77	0.80	1.3	6.5	1.8
YD100L2-	6 1.5	4.3	940	75	0.70	1.4	6	1.8
	4 2.2	5.4	1440	77	0.80	1.3	6.5	1.8
YD112M-	6 2.2	5.7	960	77	0.75	1.4	6	1.8
	4 2.8	6.7	1440	77	0.82	1.3]	6.5	1.8
YD132S-	6 3	7.7	960	79	0.70	1.4	6	1.8
	4 4	9.5	1440	80	0.82	1.3	6.5	1.8
YD132M-	6 4	9.8	960	81	0.76	1.4	6	1.8
	4 5.5	12.3	1440	80	0.85	1.3	6.5	1.8
YD160M-	6 6.5	15.1	970	84	0.76	1.4	6	1.8
	4 8	17.4	1460	83	0.85	1.3	6.5	1.8
YD160L-	6 9	20.6	970	85	0.78	1.4	6	1.8
	4 11	23.4	1460	84	0.85	1.3	6.5	1.8
YD180M-	6 11	25.9	980	85	0.78	1.4	6	1.8
	4 14	29.8	1470	85	0.85	1.3	6.5	1.8
YD180L-	6 13	29.4	980	86	0.78	1.4	6	1.8
	4 16	33.6	1470	85	0.85	1.3	6.5	1.8
YD200L-	6 18.5	41.4	980	87	0.78	1.4	6	1.8
	4 22	44.7	1460	87	0.85	1.3	6.5	1.8

Type	Output (kw)	Current (A)	Speed (r/min)	$\eta$ (%)	Power factor (cos $\phi$ )	Locked-rotor torque Rated torque	Locked-rotor Current Rated current	Pull-out torque Rated torque
YD225S-	6 22	44.2	980	88	0.86	1.4	6.5	1.8
	4 28	56.2	1470	87	0.87	1.3	7	1.8
YD225M-	6 26	52.2	9890	88	0.86	1.4	6.5	1.8
	4 34	66.0	1470	87	0.90	1.3	7	1.8
YD250M-	6 32	62.1	980	90	0.87	1.4	6.5	1.8
	4 42	74.7	1470	88	0.91	1.3	7	1.8
YD280S-	6 42	81.5	980	90	0.87	1.4	6.5	1.8
	4 55	104.2	1470	89	0.90	1.3	7	1.8
YD280M-	6 55	106.7	990	90	0.87	1.4	6.5	1.8
	4 72	138.1	1480	89	0.89	1.3	7	1.8
YD90L-	8 0.45	1.9	680	58	0.63	1.5	5.5	1.8
	4 0.75	1.92	1420	72	0.87	1.5	6.5	1.8
YD100L-	8 0.85	3.1	700	68	0.63	1.5	5.5	1.8
	4 1.5	3.5	1420	75	0.88	1.5	6.5	1.8
YD112M-	8 1.5	5.0	700	72	0.63	1.5	5.5	1.8
	4 2.4	5.3	1420	78	0.88	1.5	6.5	1.8
YD132S-	8 2.2	7.0	720	75	0.64	1.5	5.5	1.8
	4 3.3	7.1	1440	80	0.88	1.5	6.5	1.8
YD132M-	8 3	9.0	720	78	0.65	1.5	5.5	1.8
	4 4.5	9.4	1440	82	0.88	1.5	6.5	1.8
YD160M-	8 5	13.9	730	83	0.66	1.5	5.5	1.8
	4 7.5	15.2	1450	84	0.89	1.5	6.5	1.8
YD160L-	8 7	19.0	730	85	0.74	1.5	5.5	1.8
	4 11	21.8	1450	86	0.92	1.5	6.5	1.8
YD180L-	8 11	26.0	730	86	0.74	1.5	6	1.8
	4 17	31.5	1470	87	0.92	1.5	7	1.8
YD200L1-	8 14	33.0	740	86	0.74	1.5	6	1.8
	4 22	41.3	1470	88	0.92	1.5	7	1.8
YD200L2-	8 17	40.1	740	87	0.77	1.4	6	1.8
	4 26	48.8	1470	88	0.88	1.3	7	1.8
YD225M-	8 24	53.2	740	89	0.78	1.4	6	1.8
	4 34	66.7	1470	88	0.91	1.3	7	1.8
YD250M-	8 30	64.9	740	90	0.80	1.4	6	1.8
	4 42	78.8	1480	89	0.91	1.3	7	1.8
YD280S-	8 40	83.5	740	91	0.81	1.4	6	1.8
	4 55	102	1480	90	0.92	1.3	7	1.8
YD280M-	8 47	96.9	740	91	0.60	1.5	5	1.8
	4 67	122.9	1480	90	0.72	1.5	6	1.8
YD90S-	8 0.35	1.6	680	56	0.60	1.5	5	1.8
	6 0.45	1.4	930	70	0.72	1.5	6	1.8
YD90L-	8 0.45	1.9	680	59	0.60	1.5	5	1.8
	6 0.65	1.9	930	71	0.73	1.5	6	1.8
YD100L-	8 0.75	2.9	710	65	0.60	1.5	5	1.8
	6 1.1	3.1	950	75	0.73	1.5	6	1.8
YD112M-	8 1.3	4.5	710	72	0.61	1.5	5	1.8
	6 1.8	4.8	950	78	0.73	1.5	6	1.8
YD132S-	8 1.8	5.8	730	75	0.62	1.5	5	1.8
	6 2.4	6.2	970	80	0.73	1.5	6	1.8
YD132M-	8 2.6	8.2	730	78	0.62	1.5	5	1.8
	6 3.7	9.4	970	82	0.73	1.5	6	1.8
YD160M-	8 4.5	13.3	930	83	0.62	1.5	5	1.8
	6 6	14.7	980	85	0.73	1.5	6	1.8
YD160L-	8 6	17.5	930	84	0.62	1.5	5	1.8
	6 8	19.4	980	86	0.73	1.5	6	1.8
YD180M-	8 7.5	21.9	930	84	0.62	1.5	5	1.8
	6 10	24.2	980	86	0.73	1.5	6	1.8
YD180L-	8 9	24.8	730	85	0.65	1.5	5	1.8
	6 12	28.3	980	86	0.75	1.5	6	1.8
YD200L1-	8 12	32.5	730	86	0.65	1.5	5	1.8
	6 17	39.1	980	87	0.76	1.5	6	1.8
YD200L2-	8 15	40.3	730	87	0.65	1.5	5	1.8
	6 20	45.4	980	88	0.76	1.5	6	1.8