YD

SERIES CHANGE-POLE MULTI-SPEED THREE PHASE INDUCTION MOTOR

PRODUCT INTRODUCTION

YD series motors are derived from IE1 series motors. By changing the winding connection, the motors can obtain different output and speed to match the load characteristics of machinery. They can drive equipment with high efficiency. YD series motors can be widely used in machine tools, mining, metallurgy, textile, printing and dyeing, chemical industry and agricultural machinery and other industries.

SPECIFICATION

Frame size: H80-355mm
Rated power: 0.45kW-82kW
Voltage and frequency: 400V/ 50Hz
Degrees of protections: IP55
Degrees of insulation/Temperature rise: F/B
Installation Method: B3\ B5\B35\V1
Ambient temperature: -15℃~+40℃
Relative humidity should be less than 90%
Altitude should be lower than 1000 m above sea level
Cooling Method: IC411 、IC416、IC418、IC410

4/2 pole, 1500/3000 synchronous speed

Motor Type	Pole	Rated Power kW	Rated Current A	Rated Eff. η %	Power Factor cosφ	Ist / In	Tst / Tn	Tmax / Tn	Tmin / Tn	LW dB(A) no load
YD801-4/2	4	0.45	1.4	66.0	0.74	6.5	1.5	1.8	0.8	79
	2	0.55	1.5	65.0	0.85	7	1.7	1.8	0.5	79
YD802-4/2	4	0.55	1.7	68.0	0.74	6.5	1.6	1.8	0.8	79
	2	0.75	2.0	66.0	0.85	7	1.8	1.8	0.5	79
YD90S-4/2	4	0.85	2.3	74.0	0.77	6.5	1.8	1.8	0.8	79
	2	1.1	2.8	71.0	0.85	7	1.9	1.8	0.5	79
YD90L-4/2	4	1.3	3.3	76.0	0.78	6.5	1.8	1.8	0.8	83
	2	1.8	4.4	73.0	0.85	7	2	1.8	0.5	83
YD100L1-4/2	4	2	4.8	78.0	0.81	6.5	1.7	1.8	0.8	87
	2	2.4	5.6	76.0	0.86	7	1.9	1.8	0.5	87
YD100L2-4/2	4	2.4	5.6	79.0	0.83	6.5	1.6	1.8	0.8	91
	2	3	6.7	77.0	0.89	7	1.7	1.8	0.5	91
YD112M-4/2	4	3.3	7.4	82.0	0.83	6.5	1.9	1.8	0.8	91
	2	4	8.6	79.0	0.89	7	2	1.8	0.5	91
YD132S-4/2	4	4.5	9.8	83.0	0.84	6.5	1.7	1.8	0.8	91
	2	5.5	11.9	79.0	0.89	7	1.8	1.8	0.5	91
YD132M-4/2	4	6.5	13.8	84.0	0.85	6.5	1.7	1.8	0.8	91
	2	8	17.1	80.0	0.89	7	1.8	1.8	0.5	91
YD160M-4/2	4	9	18.5	87.0	0.85	6.5	1.6	1.8	0.8	95
	2	11	22.9	82.0	0.89	7	1.8	1.8	0.5	95
YD160L-4/2	4	11	22.3	87.0	0.86	6.5	1.7	1.8	0.8	95
	2	14	28.8	82.0	0.90	7	1.9	1.8	0.5	95
YD180M-4/2	4	15	29.4	89.0	0.87	6.5	1.8	1.8	0.8	95
	2	18.5	36.7	85.0	0.90	7	1.9	1.8	0.5	95
YD180L-4/2	4	18.5	35.9	89.0	0.88	6.5	1.6	1.8	0.8	95
	2	22	42.7	86.0	0.91	7	1.8	1.8	0.5	95
YD200L-4/2	4	26	49.9	89.0	0.89	6.5	1.4	1.8	0.8	98
	2	30	58.3	85.0	0.92	7	1.6	1.8	0.5	98
YD225S-4/2	4	32	60.7	90.0	0.89	6.5	1.4	1.8	0.8	100
	2	37	71.1	86.0	0.92	7	1.6	1.8	0.5	100
YD225M-4/2	4	37	69.4	91.0	0.89	6.5	1.4	1.8	0.8	100
	2	45	86.4	86.0	0.92	7	1.6	1.8	0.5	100
YD250M-4/2	4	45	84.4	91.0	0.89	6.5	1.6	1.8	0.8	100
	2	52	98.7	87.0	0.92	7	1.6	1.8	0.5	100
YD280S-4/2	4	60	111	91.0	0.90	6.5	1.4	1.8	0.8	102
	2	72	135	88.0	0.92	7	1.5	1.8	0.5	102
YD280M-4/2	4	72	134	91.0	0.90	6.5	1.4	1.8	0.8	102
	2	82	152	88.0	0.93	7	1.5	1.8	0.5	102

6/4 pole, 1000/1500 synchronous speed

Motor Type	Pole	Rated Power kW	Rated Current A	Rated Eff. η %	Power Factor cosφ	Ist / In	Tst / Tn	Tmax / Tn	Tmin / Tn	LW dB(A) no load
YD90S-6/4	6	0.65	2.3	64.0	0.68	6.0	1.6	1.8	0.8	75
	4	0.85	2.3	70.0	0.79	6.5	1.4	1.8	0.5	75
YD90L-6/4	6	0.85	2.8	66.0	0.70	6.0	1.6	1.8	0.8	75
	4	1.1	3.0	71.0	0.79	6.5	1.5	1.8	0.5	75
YD100L1-6/4	6	1.3	3.8	74.0	0.70	6.0	1.7	1.8	0.8	78
	4	1.8	4.4	77.0	0.80	6.5	1.4	1.8	0.5	78
YD100L2-6/4	6	1.5	4.3	75.0	0.70	6.0	1.6	1.8	0.8	82
	4	2.2	5.4	77.0	0.80	6.5	1.4	1.8	0.5	82
YD112M-6/4	6	2.2	5.7	78.0	0.75	6.0	1.8	1.8	0.8	82
	4	2.8	6.7	77.0	0.82	6.5	1.5	1.8	0.5	82
YD132S-6/4	6	3	7.7	79.0	0.75	6.0	1.8	1.8	0.8	82
	4	4	9.5	78.0	0.82	6.5	1.7	1.8	0.5	82
YD132M-6/4	6	4	9.8	82.0	0.76	6.0	1.6	1.8	0.8	82
	4	5.5	12.3	80.0	0.85	6.5	1.4	1.8	0.5	82
YD160M-6/4	6	6.5	15.1	84.0	0.78	6.0	1.5	1.8	0.8	86
	4	8	17.6	82.0	0.84	6.5	1.5	1.8	0.5	86
YD160L-6/4	6	9	20.6	85.0	0.78	6.0	1.6	1.8	0.8	86
	4	11	23.7	83.0	0.85	6.5	1.7	1.8	0.5	86
YD180M-6/4	6	11	25.9	85.0	0.76	6.0	1.6	1.8	0.8	90
	4	14	29.8	84.0	0.85	6.5	1.7	1.8	0.5	90
YD180L-6/4	6	13	29.4	86.0	0.78	6.0	1.7	1.8	0.8	90
	4	16	33.6	85.0	0.85	6.5	1.7	1.8	0.5	90
YD200L-6/4	6	18.5	41.4	87.0	0.78	6.5	1.6	1.8	0.8	90
	4	22	44.9	86.5	0.86	7.0	1.5	1.8	0.5	90
YD225S-6/4	6	22	44.2	88.0	0.86	6.5	1.8	1.8	0.8	92
	4	28	56.5	86.5	0.87	7.0	1.8	1.8	0.5	92
YD225M-6/4	6	26	52.2	88.0	0.86	6.5	1.8	1.8	0.8	92
	4	32	63.2	85.5	0.90	7.0	1.8	1.8	0.5	92
YD250M-6/4	6	32	62.1	90.0	0.87	6.5	1.5	1.8	0.8	98
	4	42	81.1	86.5	0.91	7.0	1.3	1.8	0.5	98
YD280S-6/4	6	42	81.5	90.0	0.87	6.5	1.5	1.8	0.8	98
	4	55	107	87.0	0.90	7.0	1.3	1.8	0.5	98
YD280M-6/4	6	55	107	90.0	0.87	6.5	1.6	1.8	0.8	98
	4	67	132	87.0	0.89	7.0	1.3	1.8	0.5	98

8/4 pole, 750/1500 synchronous speed

Motor Type	Pole	Rated Power kW	Rated Current A	Rated Eff. η %	Power Factor cosφ	Ist / In	Tst / Tn	Tmax / Tn	Tmin / Tn	LW dB(A) no load
YD90L-8/4	8	0.45	1.9	58.0	0.63	5.5	1.6	1.8	0.8	75
	4	0.75	1.8	72.0	0.87	6.5	1.4	1.8	0.5	75
YD100L-8/4	8	0.85	3.1	67.0	0.63	5.5	1.6	1.8	0.8	78
	4	1.5	3.5	74.0	0.88	6.5	1.4	1.8	0.5	78
YD112M-8/4	8	1.5	5	72.0	0.63	5.5	1.7	1.8	0.8	82
	4	2.4	5.3	78.0	0.88	6.5	1.7	1.8	0.5	82
YD132S-8/4	8	2.2	7	75.0	0.64	5.5	1.5	1.8	0.8	82
	4	3.3	7.1	80.0	0.88	6.5	1.7	1.8	0.5	82
YD132M-8/4	8	3	9.0	78.0	0.65	5.5	1.5	1.8	0.8	82
	4	4	9.4	82.0	0.89	6.5	1.6	1.8	0.5	82
YD160M-8/4	8	5	13.9	83.0	0.66	5.5	1.5	1.8	0.8	86
	4	7.5	15.2	84.0	0.89	6.5	1.6	1.8	0.5	86
YD160L-8/4	8	7	19	85.0	0.66	5.5	1.5	1.8	0.8	86
	4	11	21.8	86.0	0.89	6.5	1.6	1.8	0.5	86
YD180L-8/4	8	11	26.7	87.0	0.72	6.0	1.5	1.8	0.8	90
	4	17	32.3	88.0	0.91	7.0	1.5	1.8	0.5	90
YD200L1-8/4	8	14	33	87.0	0.74	6.0	1.8	1.8	0.8	90
	4	22	41.3	88.0	0.92	7.0	1.7	1.8	0.5	90
YD200L2-8/4	8	17	40.1	87.0	0.74	6.0	1.5	1.8	0.8	92
	4	26	48.8	88.0	0.92	7.0	1.7	1.8	0.5	92
YD225M-8/4	8	24	53.2	89.0	0.77	6.0	1.5	1.8	0.8	92
	4	34	66.7	88.0	0.88	7.0	1.5	1.8	0.5	92
YD250M-8/4	8	30	64.9	90.0	0.78	6.0	1.6	1.8	0.8	94
	4	42	78.8	89.0	0.91	7.0	1.7	1.8	0.5	94
YD280S-8/4	8	40	84	91.0	0.80	6.0	1.6	1.8	0.8	98
	4	55	102	90.0	0.91	7.0	1.7	1.8	0.5	98
YD280M-8/4	8	47	97	91.0	0.81	6.0	1.6	1.8	0.8	98
	4	67	123	90.0	0.92	7.0	1.7	1.8	0.5	98

8/6 pole, 750/1000 synchronous speed

Motor Type	Pole	Rated Power kW	Rated Current A	Rated Eff. η %	Power Factor cosφ	Ist / In	Tst / Tn	Tmax / Tn	Tmin / Tn	LW dB(A) no load
YD90S-8/6	8	0.35	1.6	56.0	0.60	5	1.8	1.8	0.8	73
	6	0.45	1.4	70.0	0.72	6	2.0	1.8	0.5	73
YD90L-8/6	8	0.45	1.9	59.0	0.60	5	1.7	1.8	0.8	73
	6	0.65	1.9	71.0	0.73	6	1.8	1.8	0.5	73
YD100L-8/6	8	0.75	2.9	65.0	0.60	5	1.8	1.8	0.8	73
	6	1.1	3.1	75.0	0.73	6	1.9	1.8	0.5	73
YD112M-8/6	8	1.3	4.5	72.0	0.61	5	1.7	1.8	0.8	75
	6	1.8	4.8	78.0	0.73	6	1.9	1.8	0.5	75
YD132S-8/6	8	1.8	6	76.0	0.60	5	1.6	1.8	0.8	79
	6	2.4	6.3	80.0	0.72	6	1.9	1.8	0.5	79
YD132M-8/6	8	2.6	8.2	78.0	0.62	5	1.9	1.8	0.8	79
	6	3.7	9.4	82.0	0.73	6	1.9	1.8	0.5	79
YD160M-8/6	8	4.5	13.3	83.0	0.62	5	1.6	1.8	0.8	83
	6	6	14.7	85.0	0.73	6	1.9	1.8	0.5	83
YD160L-8/6	8	6	17.2	84.0	0.63	5	1.6	1.8	0.8	83
	6	8	19.4	86.0	0.73	6	1.9	1.8	0.5	83
YD180M-8/6	8	7.5	21.9	84.0	0.62	5	1.9	1.8	0.8	83
	6	10	24.2	86.0	0.73	6	1.9	1.8	0.5	83
YD180L-8/6	8	9	24.8	85.0	0.65	5	1.8	1.8	0.8	86
	6	12	28.3	86.0	0.75	6	1.8	1.8	0.5	86
YD200L1-8/6	8	12	32.6	86.0	0.65	5	1.8	1.8	0.8	88
	6	17	39.1	87.0	0.76	6	2.0	1.8	0.5	88
YD200L2-8/6	8	15	40.3	87.0	0.65	5	1.8	1.8	0.8	88
	6	20	45.4	88.0	0.76	6	2.0	1.8	0.5	88