

Y2 High-voltage Large-power Three-phase Asynchronous Motor

1. PRODUCT INTRODUCTION

Y2 series high-voltage large-power three-phase asynchronous motor is totally enclosed fan-cooled, our company adopts the world advanced technology, using new materials and new process.

Y2 series of mounting dimensions and power level is in line with IEC standards.

Frame and endshields are in cast iron structure, Good heat dissipation, high rigidity, strong and durable.

For stator coil, we use insulated materials with insulation class F, the complete stator winding cores are vacuum-press-impregnated (VPI) processing, which can enable the stator windings to possess high-thermal stability and long life, the stators have high dielectric strength and mechanical strength, excellent corrosion and moisture resistance. The rotor is made by cast-aluminum technology or copper bar welding, reliable and durable.

2. PRODUCT USE

Y2 series motor has the advantages of compact structure, beautiful appearance, high efficiency, low noise, little vibration, reliable operation, easy installation and maintenance, etc.

Y2 series motor can be used to drive various kinds of general machinery, such as: Fan, water pump, compressor, crusher, cutting machine, transport machinery, etc.,

The motor can be used in mine /mining, petroleum /oil, chemical, steel-iron factory, medicine, power station and other places where is worse environment.

3. TECHNICAL FEATURES

1. Execution standard: IEC
2. Frame size: H315~H560
3. Rated power: 185KW~1600KW
4. Voltage: 6000V, 10000V
5. Frequency: 50Hz
6. Pole: 2P, 4P, 6P, 8P
7. Operation mode: S1 (continuous running)
8. Enclosed protect class: IP55, IP54
9. Insulation class: F
10. Cooling method: IC411
11. Mounting method: IMB3
12. Power supply conditions: voltage variable $\pm 5\%$, frequency variable $\pm 1\%$.
13. Ambient conditions: Altitude lower than 1000m; Ambient temperature $-15\sim 40^{\circ}\text{C}$; Humidity less than 90%

4. ORDERING INSTRUCTION

When customer inquiry or order the motors, please specify the motor's use, model, rated power, voltage, frequency, synchronous speed, rotation direction(view from the drive shaft end), mounting method, protection grade (IP), terminal box location.

If customers have special request, such as other power, voltage, frequency, mounting size, shaft extension size, elevation, special ambient and other, please specify.

5. CUSTOMER CAN CHOOSE

1. Can choose stator winding thermometer PTC
2. Can choose bearing thermometer Pt100
3. Can choose moistureproof heater (space heater) .

6. TECHNICAL DATA**Y2 Three-Phase Asynchronous Motor
TECHNICAL DATA (6KV SPEED 3000RPM 2-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-3151-2	185	22.5	2980	94.1	0.84	0.7	2.0	7.0	1900
Y2-3152-2	200	24.3	2980	94.3	0.84	0.7	2.0	7.0	2000
Y2-3153-2	220	26.7	2980	94.4	0.84	0.7	2.0	7.0	2100
Y2-3551-2	250	30.3	2980	94.6	0.84	0.7	2.0	7.0	2250
Y2-3552-2	280	33.1	2980	94.7	0.86	0.7	2.0	7.0	2400
Y2-3553-2	315	37.2	2980	94.7	0.86	0.7	2.0	7.0	2600
Y2-3554-2	355	41.9	2980	94.8	0.86	0.7	2.0	7.0	2800
Y2-4001-2	400	47.0	2980	95.2	0.86	0.7	2.0	7.0	3200
Y2-4002-2	450	52.8	2980	95.4	0.86	0.7	2.0	7.0	3300
Y2-4003-2	500	57.8	2982	95.6	0.87	0.7	2.0	7.0	3450
Y2-4004-2	560	64.7	2982	95.7	0.87	0.7	2.0	7.0	3600
Y2-4501-2	630	72.7	2982	95.8	0.87	0.7	2.0	7.0	3900
Y2-4502-2	710	81.9	2982	95.9	0.87	0.7	2.0	7.0	4000
Y2-4503-2	800	91.0	2982	96.1	0.88	0.7	2.0	7.0	4200
Y2-4504-2	900	102.3	2982	96.2	0.88	0.7	2.0	7.0	4450
Y2-5001-2	1000	113.6	2982	96.3	0.800	0.7	2.0	7.0	6400
Y2-5002-2	1120	127.0	2982	96.4	0.88	0.7	2.0	7.0	6550
Y2-5003-2	1250	141.6	2982	96.5	0.88	0.7	2.0	7.0	6750
Y2-5004-2	1400	158.5	2982	96.6	0.88	0.7	2.0	7.0	7050

**Y2 Three-Phase Asynchronous Motor
TECHNICAL DATA (6KV SPEED 1500RPM 4-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-3151-4	185	22.5	1485	94.3	0.84	0.8	2.0	6.5	1900
Y2-3152-4	200	24.3	1485	94.3	0.84	0.8	2.0	6.5	2000
Y2-3153-4	220	26.7	1485	94.5	0.84	0.8	2.0	6.5	2100
Y2-3551-4	250	30.3	1485	94.6	0.84	0.8	2.0	6.5	2250
Y2-3552-4	280	33.9	1485	94.7	0.84	0.8	2.0	6.5	2350
Y2-3553-4	315	37.6	1485	94.9	0.85	0.8	2.0	6.5	2400
Y2-3554-4	355	42.3	1485	95.0	0.85	0.8	2.0	6.5	2580
Y2-4001-4	400	47.6	1485	95.1	0.85	0.8	2.0	6.5	3200
Y2-4002-4	450	53.5	1485	95.3	0.86	0.8	2.0	6.5	3300
Y2-4003-4	500	58.6	1485	95.4	0.86	0.8	2.0	6.5	3450
Y2-4004-4	560	65.5	1485	95.6	0.86	0.8	2.0	6.5	3600
Y2-4501-4	630	73.6	1485	95.8	0.86	0.8	2.0	6.5	4000
Y2-4502-4	710	82.8	1485	96.0	0.86	0.8	2.0	6.5	4150
Y2-4503-4	800	93.2	1488	96.0	0.86	0.8	2.0	6.5	4350
Y2-4504-4	900	104.8	1488	96.1	0.86	0.8	2.0	6.5	4600
Y2-5001-4	1000	116.3	1488	96.2	0.86	0.8	2.0	6.5	6400

Y2-5002-4	1120	130.1	1488	96.3	0.86	0.8	2.0	6.5	6650
Y2-5003-4	1250	143.4	1488	96.4	0.87	0.7	2.0	6.5	6900
Y2-5004-4	1400	160.6	1488	96.4	0.87	0.7	2.0	6.5	7200
Y2-5601-4	1600	183.4	1488	96.5	0.87	0.7	2.0	6.5	8750
Y2-5602-4	1800	206.1	1488	96.6	0.87	0.7	2.0	6.5	8950

Y2 Three-Phase Asynchronous Motor**TECHNICAL DATA (6KV SPEED 1000RPM 6-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-3551-6	160	20.6	985	93.6	0.80	0.8	2.0	6.0	2250
Y2-3552-6	185	23.7	985	93.8	0.80	0.8	2.0	6.0	2350
Y2-3553-6	200	25.6	985	94.0	0.80	0.8	2.0	6.0	2450
Y2-3554-6	220	27.4	988	94.3	0.82	0.8	2.0	6.0	2550
Y2-3555-6	250	31.0	988	94.5	0.82	0.8	2.0	6.0	2700
Y2-4001-6	280	34.7	988	94.7	0.82	0.8	2.0	6.0	3200
Y2-4002-6	315	39.0	988	94.9	0.82	0.8	2.0	6.0	3300
Y2-4003-6	355	43.3	988	95.1	0.83	0.8	2.0	6.0	3450
Y2-4004-6	400	48.8	988	95.1	0.83	0.8	2.0	6.0	3600
Y2-4501-6	450	54.7	988	95.4	0.83	0.8	2.0	6.0	3900
Y2-4502-6	500	60.6	988	95.6	0.83	0.8	2.0	6.0	4100
Y2-4503-6	560	67.8	990	95.7	0.83	0.8	2.0	6.0	4300
Y2-4504-6	630	76.2	990	95.8	0.83	0.8	2.0	6.0	4500
Y2-5001-6	710	85.7	990	96.0	0.83	0.8	2.0	6.0	6300
Y2-5002-6	800	96.6	990	96.0	0.83	0.8	2.0	6.0	6500
Y2-5003-6	900	107.3	990	96.1	0.84	0.7	2.0	6.5	6800
Y2-5004-6	1000	119.1	990	96.2	0.84	0.7	2.0	6.5	7100
Y2-5601-6	1120	133.2	990	96.3	0.84	0.7	2.0	6.5	8200
Y2-5602-6	1250	148.5	990	96.4	0.84	0.7	2.0	6.5	8500
Y2-5603-6	1400	166.4	990	96.4	0.84	0.7	2.0	6.5	8850

Y2 Three-Phase Asynchronous Motor**TECHNICAL DATA (6KV SPEED 750RPM 8-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-3551-8	160	21.7	738	93.4	0.76	0.8	2.0	5.5	2350
Y2-3552-8	185	25.1	738	93.5	0.76	0.8	2.0	5.5	2500
Y2-4001-8	200	26.7	738	93.7	0.77	0.8	2.0	5.5	3200
Y2-4002-8	220	29.3	738	93.9	0.77	0.8	2.0	5.5	3300
Y2-4003-8	250	32.8	740	94.1	0.78	0.8	2.0	5.5	3500
Y2-4004-8	280	36.6	740	94.3	0.78	0.8	2.0	5.5	3600
Y2-4501-8	315	41.1	740	94.5	0.78	0.8	2.0	5.5	3900
Y2-4502-8	355	46.2	740	94.7	0.78	0.8	2.0	5.5	4100
Y2-4503-8	400	51.3	742	94.9	0.79	0.8	2.0	5.5	4300
Y2-4504-8	450	57.7	742	95.0	0.79	0.8	2.0	5.5	4500
Y2-5001-8	500	63.0	742	95.4	0.80	0.8	2.0	5.5	6200
Y2-5002-8	560	70.5	742	95.5	0.80	0.8	2.0	5.5	6400

Y2-5003-8	630	78.3	745	95.6	0.81	0.7	2.0	5.5	6700
Y2-5004-8	710	88.2	745	95.6	0.81	0.7	2.0	5.5	7000
Y2-5601-8	800	99.3	745	95.7	0.81	0.7	2.0	5.5	8100
Y2-5602-8	900	111.6	745	95.8	0.81	0.7	2.0	5.5	8400
Y2-5603-8	1000	124.0	745	95.8	0.81	0.7	2.0	5.5	8700

10KV:
Y2 Three-Phase Asynchronous Motor
TECHNICAL DATA (10KV SPEED 3000RPM 2-POLE)

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-4001-2	220	16.1	2980	94.2	0.84	0.7	2.0	7.0	2900
Y2-4002-2	250	18.2	2980	94.4	0.84	0.7	2.0	7.0	3000
Y2-4003-2	280	20.1	2980	94.6	0.85	0.7	2.0	7.0	3100
Y2-4004-2	315	22.6	2980	94.8	0.85	0.7	2.0	7.0	3200
Y2-4005-2	355	25.1	2982	95.0	0.86	0.7	2.0	7.0	3300
Y2-4006-2	400	28.2	2982	95.2	0.86	0.7	2.0	7.0	3400
Y2-4501-2	450	31.7	2982	95.4	0.86	0.7	2.0	7.0	3900
Y2-4502-2	500	35.1	2982	95.5	0.86	0.7	2.0	7.0	4000
Y2-4503-2	560	38.9	2985	95.6	0.87	0.7	2.0	7.0	4200
Y2-4504-2	630	43.7	2985	95.6	0.87	0.7	2.0	7.0	4400
Y2-4505-2	710	49.2	2985	95.7	0.87	0.7	2.0	7.0	4650
Y2-5001-2	800	54.8	2985	95.8	0.88	0.7	2.0	7.0	6450
Y2-5002-2	900	61.6	2985	95.9	0.88	0.7	2.0	7.0	6600
Y2-5003-2	1000	68.4	2985	95.9	0.88	0.7	2.0	7.0	6800
Y2-5004-2	1120	76.5	2985	96.0	0.88	0.7	2.0	7.0	7000

Y2 Three-Phase Asynchronous Motor
TECHNICAL DATA (10KV SPEED 1500RPM 4-POLE)

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-4001-4	220	16.1	1482	94.0	0.84	0.8	2.0	6.5	3000
Y2-4002-4	250	18.3	1482	94.1	0.84	0.8	2.0	6.5	3100
Y2-4003-4	280	20.4	1482	94.2	0.84	0.8	2.0	6.5	3200
Y2-4004-4	315	22.9	1482	94.4	0.84	0.8	2.0	6.5	3300
Y2-4005-4	355	25.5	1485	94.6	0.85	0.8	2.0	6.5	3400
Y2-4006-4	400	28.7	1485	94.7	0.85	0.8	2.0	6.5	3500
Y2-4501-4	450	32.1	1485	95.1	0.85	0.8	2.0	6.5	3800
Y2-4502-4	500	35.3	1485	95.1	0.86	0.8	2.0	6.5	3950
Y2-4503-4	560	39.5	1485	95.3	0.86	0.8	2.0	6.5	4150
Y2-4504-4	630	44.3	1488	95.5	0.86	0.8	2.0	6.5	4350
Y2-4505-4	710	49.7	1488	96.0	0.86	0.8	2.0	6.5	4600
Y2-5001-4	800	55.3	1488	96.0	0.86	0.8	2.0	6.5	6300
Y2-5002-4	900	62.2	1488	96.1	0.86	0.8	2.0	6.5	6550

Y2-5003-4	1000	69.8	1488	96.2	0.86	0.8	2.0	6.5	6800
Y2-5004-4	1120	78.1	1488	96.3	0.86	0.8	2.0	6.5	7100
Y2-5601-4	1250	86.1	1488	96.4	0.87	0.7	2.0	6.5	8700
Y2-5602-4	1400	96.3	1488	96.5	0.87	0.7	2.0	6.5	8900
Y2-5603-4	1600	110.0	1488	96.5	0.87	0.7	2.0	6.5	9100

Y2 Three-Phase Asynchronous Motor**TECHNICAL DATA (10KV SPEED 1000RPM 6-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-4001-6	220	16.5	985	93.6	0.82	0.8	2.0	6.0	3300
Y2-4002-6	250	18.8	985	93.8	0.82	0.8	2.0	6.0	3450
Y2-4501-6	280	21.0	985	94.0	0.82	0.8	2.0	6.0	3700
Y2-4502-6	315	23.5	985	94.2	0.82	0.8	2.0	6.0	3820
Y2-4503-6	355	26.5	985	94.4	0.82	0.8	2.0	6.0	4000
Y2-4504-6	400	29.4	985	94.6	0.83	0.8	2.0	6.0	4200
Y2-4505-6	450	33.1	985	94.7	0.83	0.8	2.0	6.0	4450
Y2-5001-6	500	36.6	988	95.1	0.83	0.8	2.0	6.0	6000
Y2-5002-6	560	40.9	990	95.2	0.83	0.8	2.0	6.0	6200
Y2-5003-6	630	45.9	990	95.5	0.83	0.8	2.0	6.0	6400
Y2-5004-6	710	51.7	992	95.6	0.83	0.7	2.0	6.0	6700
Y2-5005-6	800	58.2	992	95.7	0.83	0.7	2.0	6.0	7000
Y2-5601-6	900	64.5	992	95.9	0.84	0.7	2.0	6.0	8000
Y2-5602-6	1000	71.6	992	96.0	0.84	0.7	2.0	6.0	8200
Y2-5603-6	1120	80.0	992	96.2	0.84	0.7	2.0	6.0	8500
Y2-5604-6	1250	89.5	992	96.2	0.84	0.7	2.0	6.0	8800

Y2 Three-Phase Asynchronous Motor**TECHNICAL DATA (10KV SPEED 750RPM 8-POLE)**

Model	Rated Power (KW)	Rated Current (A)	Speed (r/min)	Efficiency (%)	Power Factor (cosφ)	Tst /Tn	Tmax /Tn	Ist /Tn	Weight (kg)
Y2-4501-8	220	17.4	740	93.6	0.78	0.8	2.0	5.5	3650
Y2-4502-8	250	19.7	740	93.8	0.78	0.8	2.0	5.5	3750
Y2-4503-8	280	22.0	740	94.0	0.78	0.8	2.0	5.5	3900
Y2-4504-8	315	24.8	742	94.2	0.78	0.8	2.0	5.5	4100
Y2-4505-8	355	27.8	742	94.4	0.78	0.8	2.0	5.5	4300
Y2-5001-8	400	30.9	742	94.5	0.79	0.8	2.0	5.5	6100
Y2-5002-8	450	34.8	742	94.6	0.79	0.8	2.0	5.5	6300
Y2-5003-8	500	38.0	745	95.0	0.80	0.7	2.0	5.5	6600
Y2-5004-8	560	42.5	745	95.1	0.80	0.7	2.0	5.5	6900
Y2-5601-8	630	47.0	745	95.5	0.81	0.7	2.0	5.5	7750
Y2-5602-8	710	52.9	745	95.6	0.81	0.7	2.0	5.5	8000
Y2-5603-8	800	59.6	745	95.7	0.81	0.7	2.0	5.5	8300
Y2-5604-8	900	67.1	745	95.6	0.81	0.7	2.0	5.5	8600

B3 – Mounting And Dimensions

FRAME SIZE	POLE	Mounting Dimension										Overall Dimension						
		A	B	C	D	E	F	G	H	K		AB	AC	AD	BB	HA	HD	L
355	2	630	900	254	75	140	20	67.5	355	28		760	400	785	1140	50	995	1800
355	4.6	630	900	254	100	210	28	90	355	28		760	400	785	1140	50	995	1870
400	2	710	1000	280	85	170	22	76	400	35		870	445	920	1200	50	980	2000
400	4.6.8	710	1000	280	110	210	28	100	400	35		870	445	920	1200	50	980	2040
450	2	800	1120	280	95	170	25	86	450	35		980	500	950	1495	50	1140	2360
450	4	800	1120	280	120	210	32	109	450	35		980	500	950	1495	50	1140	2400
450	6.8	800	1120	280	130	150	32	119	450	35		980	500	950	1495	50	1140	2440
500	2	900	1250	315	110	210	28	100	500	42		1080	550	1010	1600	65	1220	2490
500	4	900	1250	315	130	250	32	119	500	42		1080	550	1010	1600	65	1220	2530
500	6.8	900	1250	315	140	250	36	128	500	42		1080	550	1010	1600	65	1220	2570
560	4	1000	1400	355	150	250	36	138	560	42		1170	610	1030	1680	76	1480	2650
560	6.8	1000	1400	355	160	300	40	147	560	42		1170	610	1030	1680	76	1480	2700

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