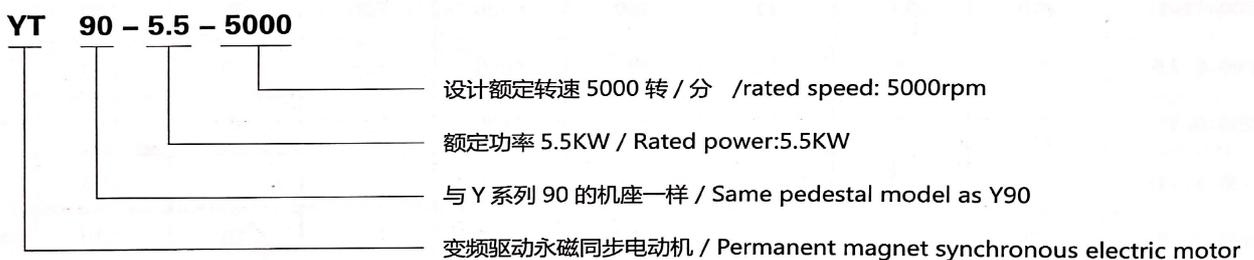


永磁同步电动机 Permanent magnet synchronous motor

泵风机配用直流无刷高速永磁同步电机，具有各种全自动功能，属于新一代的直流变频技术电机。这电机体积小重量轻，5000 转 / 分时能达到同规格的异步电机功率的 4 ~ 5 倍，3000 转 / 分时，能比同规格的异步电机功率大两倍以上。效率高达 90 以上，达到国家二级能耗标准。可以以恒功率、恒转速、恒扭矩等工作方式工作，具有响应速度快，控制精确的特点，它在整个功率负载段输出功率曲线都平坦，电机效率方面的全段也都是高效率，这些都是其他电机所望尘莫及的。永磁同步电机具有高效率，和一般常用功率的异步电机相比，效率要高很多，比单相异步电机效率高 15-20%（永磁同步电机带变频控制器损耗），比三相异步电机的效率要高 7-10%，如果三相异步电机也配用变频控制的话，相比效率就要高 10-13%。见电机负载特性表。电机的外形、安装方式和安装尺寸和同机座的 Y2 机座相同。

Our permanent magnetic synchronous motor works in full-automation when frequency changes, which is a new generation of DC frequency conversion technology. Characterized by small size and light weight, when speed is 3000rpm,our synchronous motor efficiency can be two times higher than asynchronous motor with same specification, if 5000rpm, efficiency can be even 4-5 times higher. Our motor efficiency is more than 90%, which reaches the second national standard of energy consumption. It can work under constant power, constant speed and constant torque with quick reflection and precise control. We can see stable output power in the power load curve. Also synchronous motors keep working in high efficiency from the very beginning, which is superior than other asynchronous motors. Efficiency of our permanent-magnetic synchronous motor is 15% to 20% higher than that of other single-phase asynchronous motor(including loss from motor and controller), and 7% to 10% higher than three-phase asynchronous motor. If we equip three-phase asynchronous motor with frequency conversion control, its efficiency can be 10% to 13% higher. See attached power load diagram. Outline and installation of this motor is the same as that of Y2 motor in same specification.

型号说明 / Identification codes



5000 转永磁同步电机 /5000rpm permanent magnet synchronous motor

型号 TYPE	机座 / 定子 STAND / STATOR mm	扭矩 TORQUE Nm	转速范围 SPEED RANGE r/min	额定电压 RATED VOLTAGE V	额定电流 RATED ELECTRIC CURRENT A	额定功率 RATED POWER KW	重量 WEIGHT KG
YT63-2.2-5000	Y63/96	4.2	0-5000	380	3.8	2.2	4
YT63-3-5000		5.7	0-5000	380	5.3	3	5
YT63-4-5000		7.6	0-5000	380	7.0	4	6
YT63-5.5-5000		10.5	0-5000	380	9.3	5.5	7
YT80-3-5000	Y80/120	5.7	0-5000	380	5.2	3	8
YT80-4-5000		7.6	0-5000	380	7.3	4	9
YT80-5.5-5000		10.5	0-5000	380	9.6	5.5	11
YT80-7.5-5000		14.3	0-5000	380	13.1	7.5	13
YT90-3-5000	Y90/130	5.7	0-5000	380	5.3	3	15
YT90-4-5000		7.6	0-5000	380	7.1	4	16
YT90-5.5-5000		10.5	0-5000	380	9.1	5.5	17
YT90-8-5000		15.2	0-5000	380	14	7.5	18
YT90-10-5000		19	0-5000	380	19.5	10	20
YT100-5.5-5000	Y100/155	10.5	0-5000	380	9.7	5.5	26
YT100-7.5-5000		14.3	0-5000	380	13.2	7.5	28
YT100-11-5000		21	0-5000	380	19.9	11	29
YT100-15-5000		28.5	0-5000	380	26.8	15	30
YT100-18.5-5000		35	0-5000	380	31.5	18.5	32
YT112-9-5000	Y112/175	17.1	0-5000	380	15.9	9	35
YT112-11-5000		21	0-5000	380	20.5	11	36
YT112-15-5000		28.5	0-5000	380	27	15	38
YT112-18.5-5000		35	0-5000	380	32.8	18.5	40
YT112-30-5000		57	0-5000	380	51.6	30	42
YT132-15-5000	Y132/210	28.5	0-5000	380	25.8	15	48
YT132-22-5000		42	0-5000	380	37.6	22	50
YT132-30-5000		57	0-5000	380	52.7	30	53
YT132-37-5000		70.3	0-5000	380	64.2	37	57
YT132-45-5000		85.5	0-5000	380	75.6	45	60
YT160-37-5000	Y160/260	70.3	0-5000	380	65.3	37	86
YT160-45-5000		85.5	0-5000	380	78.6	45	96
YT160-55-5000		104.5	0-5000	380	94.8	55	108
YT180-55-5000	Y180/290	104.5	0-5000	380	92.8	55	115
YT180-75-5000		142.5	0-5000	380	126.3	75	126
YT180-90-5000		171	0-5000	380	151.7	90	138

3000 转永磁同步电机 / 3000rpm permanent magnet synchronous motor

型号 TYPE	机座 / 定子 STAND / STATOR mm	扭矩 TORQUE Nm	转速范围 SPEED RANGE r/min	额定电压 RATED VOLTAGE V	额定电流 RATED ELECTRIC CURRENT A	额定功率 RATED POWER KW	重量 WEIGHT KG
YT63-1.1-3000	YT63/96	3.2	0-3000	380	1.8	1.1	4.5
YT71-1.5-3000	Y71/110	4.7	0-3000	380	2.7	1.5	5.5
YT71-2.2-3000		7	0-3000	380	3.8	2.2	6
YT71-3-3000		9.5	0-3000	380	5.3	3	7
YT80-2.2-3000	Y80/120	7	0-3000	380	3.8	2.2	9
YT80-3-3000		9.6	0-3000	380	5.2	3	11
YT80-4-3000		12.7	0-3000	380	7.3	4	13
YT90-3-3000	Y90/130	9.6	0-3000	380	5.3	3	18
YT90-4-3000		12.7	0-3000	380	7.1	4	20
YT90-5.5-3000		17.5	0-3000	380	9.1	5.5	23
YT100-4-3000	Y100/155	12.7	0-3000	380	9.7	4	28
YT100-5.5-3000		17.5	0-3000	380	13.2	5.5	30
YT100-7.5-3000		23.9	0-3000	380	19.9	7.5	32
YT100-11-3000		35	0-3000	380	26.8	11	34
YT112-7.5-3000	Y112/175	23.9	0-3000	380	15.9	7.5	35
YT112-11-3000		35	0-3000	380	20.5	11	38
YT112-15-3000		48	0-3000	380	27	15	40
YT132-7.5-3000	Y132/210	24	0-3000	380	19.6	7.5	45
YT132-11-3000		35	0-3000	380	20.7	11	51
YT132-15-3000		48	0-3000	380	27	15	56
YT132-18.5-3000		58.9	0-3000	380	32.6	18.5	60
YT160-15-3000	Y160/260	48	0-3000	380	27	15	92
YT160-18.5-3000		59	0-3000	380	32.5	18.5	102
YT160-22-3000		70	0-3000	380	38.5	22	107
YT160-30-3000		96	0-3000	380	53.5	30	118
YT180-30-3000	YT180/290	96	0-3000	380	53.3	30	148
YT180-37-3000		117.8	0-3000	380	64.5	37	152
YT180-45-3000		143.2	0-3000	380	79.6	45	156
YT180-55-3000		175	0-3000	380	97	55	163
YT200-55-3000	YT200/327	175	0-3000	380	100	55	195
YT200-63-3000		200	0-3000	380	114	75	206
YT200-75-3000		238.7	0-3000	380	135.7	63	211
YT200-90-3000		286.3	0-3000	380	168.2	90	218

额定扭矩启动, 最大工作扭矩电额定扭矩的 1.5 倍, 瞬间最大扭矩是额定扭矩的 2 倍

Feature of torque: started with rated torque, maximum working torque is 1.2 times of rated torque and instant maximum torque is two times of rated torque.

以上永磁同步电机冷却方式都是风冷，如果伺服要求不装风扇，则功率按除以 0.75 选配大的电机功率。

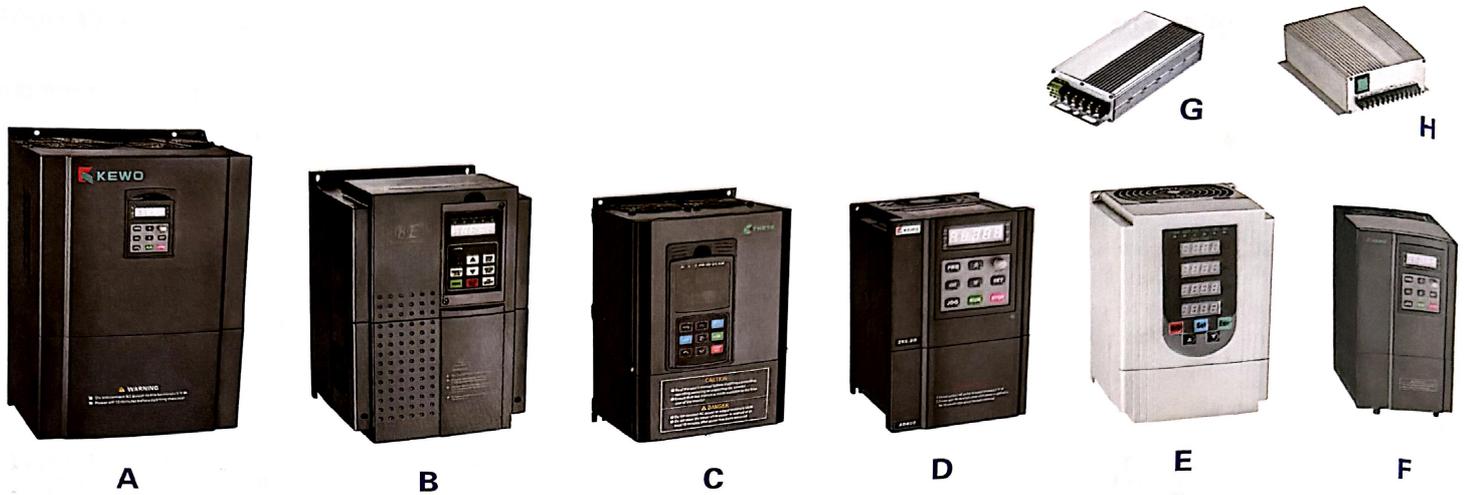
永磁无刷同步电机同步恒速，变频变速，转速为 5000 转 / 分和 3000 转 / 分和 1500 转三种规格，S1 连续工作制，NSK 轴承。如果需要其他各种功率各种转速都可以设计生产。电机和控制器配套使用，电机不能单独使用，不能接入其他任何电源。控制器根据客户要求可以有各种自动控制功能，软启动，过流过热自动保护等功能。

The above permanent magnet synchronous motor cooling manner are air-cooled, If there is no fan, just select bigger motor power after divided by 0.75.

Brushless permanent magnet synchronous motor synchronous speed constant, variable frequency variable speed, rotational speed of 5000 rpm and 3000 rpm and 1500 rpm three kinds of specifications, S1 continuous working system, NSK bearing. If other kinds of power needs can design and production of all kinds of speed. Supporting the use of the motor and the controller, the motor can not be used alone, can not access any other power supply. Controller according to customer requirements can have the function of automatic control, all kinds of soft start, over-current and over temperature automatic protection function.

1500 转永磁同步电机 / 1500rpm permanent magnet synchronous motor

型号 TYPE	机座 / 定子 STAND / STATOR mm	扭矩 TORQUE Nm	转速范围 SPEED RANGE r/min	额定电压 RATED VOLTAGE V	额定电流 RATED ELECTRIC CURRENT A	额定功率 RATED POWER KW	重量 WEIGHT KG
YT80-1.1-1500	Y80/120	7	0-1500	380	2.0	1.1	11
YT80-1.5-1500		9.5	0-1500	380	2.7	1.5	12
YT80-2.2-1500		14	0-1500	380	3.8	2.2	14
YT90-3-1500	Y90/130	19	0-1500	380	5.3	3	19
YT90-4-1500		25	0-1500	380	7.1	4	21
YT100-4-1500	Y100/155	25	0-1500	380	7.1	4	27
YT100-5.5-1500		35	0-1500	380	9.6	5.5	31
YT112-5.5-1500	Y112/175	35	0-1500	380	9.6	5.5	36
YT112-7.5-1500		48	0-1500	380	13.2	7.5	39
YT132-5.5-1500	Y132/210	35	0-1500	380	9.7	5.5	41
YT132-7.5-1500		48	0-1500	380	13.2	7.5	48
YT132-11-1500		70	0-1500	380	20	11	52
YT160-11-1500	Y160/260	70	0-1500	380	20	11	95
YT160-15-1500		96	0-1500	380	27	15	103
YT160-18.5-1500		118	0-1500	380	33	18.5	108
YT180-18.5-1500	YT180/290	118	0-1500	380	33	18.5	152
YT180-22-1500		140	0-1500	380	37.6	22	159
YT180-30-1500		191	0-1500	380	51.6	30	465
YT200-30-1500	YT200/327	191	0-1500	380	52	30	196
YT225-37-1500	YT225/368	236	0-1500	380	66	37	268
YT225-45-1500		287	0-1500	380	76	45	285


控制器参数 / Controller data

型号 TYPE	应用范围 SCOPE OF APPLICATION	配泵功率 WITH PUMP POWER	重量 WEIGHT KG	包装尺寸 PACKING mm	图例 ILLUSTRATION
SDC20A/24V	SOLAR	100-400W	1.0	34*13*12	G、H
SDC20A/48V	SOLAR	180-750W	1.6	34*21*12	G、H
SDC15A/96V	SOLAR	750-1300W	1.6	34*21*12	H
SDC10A/220V	AC/DC/SOLAR	0.75-1.1KW	3.0	34*20.5*20.5	E、F
SDC15A/220V	AC/DC/SOLAR	1.1-1.5KW	3.0	34*20.5*20.5	E、F
ACS10A/220V	AC/DC/SOLAR	750W-1.1KW	3.3	34*20.5*20.5	E、F
ACS15A/220V	AC/DC/SOLAR	1.1-1.5KW	3.3	34*20.5*20.5	E、F
ACS20A/220V	AC/DC/SOLAR	2.2-3.0KW	4.0	41.5*25.5*24.6	E、D
SDC13A/380V-3KW	AC/DC/SOLAR	3KW	3.0	34*20.5*20.5	D
SDC16A/380V-4KW	AC/DC/SOLAR	0.75-1.1KW	3.0	41.5*25.5*24.6	D
SDC19A/380V-5.5KW	AC/DC/SOLAR	1.1-1.5KW	3.0	41.5*25.5*24.6	D
ACR13A/380V-4KW	AC/DC/SOLAR	3KW	3.0	34*20.5*20.5	D
ACR16A/380V-5.5KW	AC/DC/SOLAR	4.5KW	6.0	41.5*25.5*24.6	D
ACR19A/380V-7.5KW	AC/DC/SOLAR	5.5KW	6.0	41.5*25.5*24.6	C、D
ACR23A/380V-11KW	AC/DC/SOLAR	7.5-11KW	6.5	41.5*25.5*24.6	C
ACR32A/380V-15KW	AC/DC/SOLAR	15KW	6.7	41.5*25.5*24.6	C
ACR37A/380V-18KW	AC/DC/SOLAR	18KW	11.3	61*38*33	B
ACR47A/380V-22KW	AC/DC/SOLAR	22KW	17	61*38*33	B
ACR62A/380V-30KW	AC/DC/SOLAR	30KW	20.5	60*42*36	B
ACR75A/380V-37KW	AC/DC/SOLAR	37KW	20.5	60*42*36	A
ACR100A/380V-45KW	AC/DC/SOLAR	45KW	20.5	60*42*36	A
ACR120A/380V-55KW	AC/DC/SOLAR	55KW	33	73*46*39	A
ACR160A/380V-75KW	AC/DC/SOLAR	75KW	33	73*46*39	A
ACR200A/380V-100KW	AC/DC/SOLAR	100KW	53	85*54*43	A
ACR240A/380V-110KW	AC/DC/SOLAR	110KW	136	106*55*38	A
ACR260A/380V-132KW	AC/DC/SOLAR	132KW	136	106*54*38	A
ACR300A/380V-160KW	AC/DC/SOLAR	160KW	157	124*60*40	A