

# AC Drive Model Selection

Shenzhen Power Drive Co., Ltd

## [ AC Drive Selection Guide ]

Voltage: 220V - 240V AC ± 15%

Model No.	Motor power (kW)	Rated input voltage (V)	Rated output current (A)
S2R4GB	0.4	1AC 220V	2.4
S2R75GB	0.74	1AC 220V	4.5
S21R5GB	1.5	1AC 220V	7
S22R2GB	2.2	1AC 220V	11
2R75GB	0.75	3AC 220V	3
21R5GB	1.5	3AC 220V	7
22R2GB	2.2	3AC 220V	10
2004GB	4	3AC 220V	16
25R5GB	5.5	3AC 220V	20
27R5GB	7.5	3AC 220V	30
2011G	11	3AC 220V	42
2015G	15	3AC 220V	55
2018G	18.5	3AC 220V	70
2022G	22	3AC 220V	80
2030G	30	3AC 220V	110
2037G	37	3AC 220V	130
2045G	45	3AC 220V	160
2055G	55	3AC 220V	190

Voltage: 380V - 440V AC ± 15%

Model No.	Motor power (kW)	Rated input current (A)	Rated output current (A)
3R75GB	0.75	3.7	2.5
31R5GB	1.5	5.4	4
32R2GB	2.2	7	6
3004GB	4	10.7	9
35R5GB	5.5	15.5	13
37R5GB	7.5	20.5	17
3011GB	11	26	25
3015GB	15	35	32
3018G	18.5	38.5	37
3022G	22	46.5	45
3030G	30	62	60
3037G	37	76	75
3045G	45	92	90
3055G	55	113	110
3075G	75	157	150
3093G	90	180	176
3110G	110	214	210
3132G	132	256	250
3160G	160	307	300
3185G	185	385	340
3200G	200	385	380
3220G	220	430	415
3250G	250	500	470
3280G	280	548	520
3315G	315	625	600
3355G	355	710	680
3400G	400	760	750
3500G	500	910	900

Note: Model number with "B" means built-in brake unit

## [ AC Drive Specification ]

	Item	Description	
I/O Feature	Input voltage range	1AC 220~240V +15% 3AC 380~440V +15%	
	Input frequency range	50/60Hz	
	Output voltage range	0~rate input voltage	
	Output frequency range	Below 4kW: 0.00~650.00Hz, Above 5.5kW: 0.00~400.00Hz	
Control Feature	Control mode	Magnetic flux vector control	
	Frequency reference source	Keyboard, Analog input, Pulse, Communication, Up/Down terminal, and so on	
	Overload capacity	G: 60s for 150% rated current, 20s for 180% rated current P: 30s for 120% rated current, 1s for 150% rated current	
	Start torque	0.5Hz 150%	
	Speed adjusting range	1:100	
	Speed control accuracy	≤1% the synchronous rotated speed at rated frequency	
	Carrier frequency	1.0-16.0kHz. It can be adjusted according to temperature and load characteristic.	
	Frequency resolution	Analog setting:1/1000 max. frequency; Pulse setting:0.5Hz; Digital setting:0.01Hz	
	Acceleration-deceleration mode	Linearity, S curve	
	Acc-dec time	0.1~3600s	
	DC braking	Start frequency	0.00~50.00Hz
		Braking time	0.1~30s
		Braking current	G: 0~100%, P: 0~80%
		Brake waiting time	0.00~10.00s
	Jog running	0.00~max. output frequency; support keyboard, terminal control	
Simple PLC and multi-step operation	7 steps; the operation time, acc-dec time and direction can be set.		
PID Control	Analog PID, digital PID; support analog PID dormancy		
Automatic voltage regulation	Disable, enable, disable during deceleration (factory setting)		
Wobble frequency control	Special for spinning		
I/O Terminal	Analog input	2 programmable terminals: 0~10V or 0/4~20mA	
	Digital input	8 programmable terminals: X1~X6 for low speed signal input, X7~X8 for high speed pulse input (compatible with low speed signal input)	
	Analog output	2 programmable terminals: 0~10V or 0/4~20mA	
	Digital output	Programmable open collector output: 2 terminals (24V, max. 50mA); programmable relay output: 2 terminals	
	Communication terminal	RS-485, support standard MODBUS-RTU protocol	
Human-Machine Interface	LED display	2 keyboards for option	
	LCD display	Support 5.5kW and above	
EMC	EMC Criterion	IEC61800-3	
Environmental Constraint	Temperature	-10℃ ~ +40℃; VFD drive will be derated if ambient temperature exceeds 40℃; each rise 1℃, the derate will be 5%	
	Humidity	5%-95%, without condensation	
	Altitude	≤1000m; ac drive will be derated if above 1000m	
	Impingement and oscillation	Normal running: <5.9m/s <sup>2</sup> (0.6g); Transportation: <15m/s <sup>2</sup> (1.5g)	
	Store environment	-40℃ ~ +70℃; no dust, no corrosive gas, no direct sunlight	

Shenzhen Power Drive Co., Ltd

Email: sales@szpowerdrive.com

Website: www.szpowerdrive.com

Address: 22 Building Baishigongle Road, Xixiang Bao'an District, Shenzhen China