GK500 Mini Series AC Motor Drives (0.4KW-3.7KW)

Information of Product Model

Voltage	Model	Power rating (kW)	Output current (A)	Triphase input current (A)	Single-phase input current (A)	Applicable motor (kW)	Brake unit
200V*	GK500-2T0.4B	0.4	2.6	3.2	5.5	0.4	- inbuilt
	GK500-2T0.75B	0.75	4.5	6.3	9.2	0.75	
	GK500-2T1.5B	1.5	7.5	9	14.5	1.5	
	GK500-2T2.2B	2.2	9.6	15	23	2.2	
400V	GK500-4T0.75B	0.75	2.5	3.5	/	0.75	
	GK500-4T1.5B	1.5	3.8	6.2	/	1.5	
	GK500-4T2.2B	2.2	5.5	9.2	/	2.2	
	GK500-4T3.7B	3.7	9	14.9	/	3.7	

Product model and technical data

* 200V drives are applicable for triphase 200V and single-phase 200v

Technical Features of GK500 Mini Series AC Motor Drives

Technical Features of GK500

Power input	Rated input voltage Rated input current	3-phase AC208V/AC220V/AC230V/AC240V/AC380V/AC400V/AC415V/AC440V/AC460V/ AC480V 1-phase AC220V/AC230V/AC240V See Section 2.3	
	Frequency	SUHZ/60HZ, tolerance ±5%	
	Allowable range of voltage	Voltage out-of-balance rate <3%, distortion rate as per the requirements IEC61800-2	
	Applicable motor (kW)	See Section 2.3	
	Rated current (A)	See Section 2.3	
Power output	Output voltage (V)	3-phase: 0~ rated input voltage, error < ±3%	
	Output frequency (Hz)	0.00~ 600.00Hz; unit: 0.01Hz	
	Overload capacity	150% - 1min; 180% - 10s; 200% - 0.5s	
	V/f patterns	V/f control Sensor-less vector control 1	
Control	Speed regulation range	1:100 (V/f , sensor-less vector control 1)	
Control	Speed accuracy	±0.5% (V/f control)	
characteristics		±0.2% (sensor-less vector control 1)	
	Speed fluctuation	±0.3% (sensor-less vector control 1)	
	Torque response	< 10ms (sensor-less vector control 1)	
	Start torque	0.5Hz: 180% (V/f control, sensor-less vector control 1)	
	Start frequency	0.00~ 600.00Hz	
	Accel/ Decel time	0.00~60000s	
Basic functions	Carrier frequency	0.7kHz~12kHz	
	Frequency setting	Digital setting + keypad ∧/∨ Digital setting + terminal UP/DOWN Potentiometer	

		Communication Analog setting (Al1)			
	Motor started methods	Started from starting frequency DC braking and then started			
	Motor stopped methods	Ramp to stop Coast to stop Ramp stop + DC brake			
	Dynamic braking capacity	Brake unit threshold voltage: 400V input: 650V~750V 200V input: 325V~375V service time: 0.0~100.0s			
Pasis functions	DC braking capacity	DC braking start frequency: 0.00~600.00Hz DC braking current: 0.0~100.0% DC braking time: 0.0~30.00s			
Dasic functions	Input terminals	4 digital inputs 1 analog, current/voltage type selectable			
		1 digital output 1 relay output			
	Output terminals	1 analog output, voltage/current output selectable; can output signals such as setting frequency, or output frequency, etc			
Featured functions	various master & auxiliary commands and their switch, a variety of Accel/Decel curves optional, analog auto correction, 8-step speed programmable, three faults history, over excitation brake, over voltage stall protection, under voltage stall protection, restart upon power loss, skip frequency, frequency binding, four kinds of Accel/Decel time, process PID, autotuning, field-weakening control				
Protection functions	Refer to Chapter 6- Troubleshooting				
	Place of operation	operation Indoors, no direct sunlight, free from dust, no corrosive gases, no flamma gases, no oil mist, no water vapor, no water drop and salt, etc.			
	Altitude	0~2000m De-rate 1% for every 100m when the altitude is above 1000 meters			
Environment	Ambient temperature	-10℃~50℃			
	Relative humidity	0~95%, no condensation			
	Vibration	Less than 5.9m/s2 (0.6g)			
	Storage temperature	-40 U~+70 U			
	Efficiency at rated Amps	At rated Amps ≥93%			
Others	Installation	Wall-mounted, Din-rail			
	IP grade	IP20			
	Cooling method	Forced air cooling			

Environment requirement:

- 1. Conditions: Indoors, free from direct sunlight, corrosive gases, flammable gases, oil mist, water vapor, metal particles, etc.
- 2. Altitude: 0~2,000m. Derating is required above 1,000m, Rated output current should be derated 1% per 100m increase above 1000m.
- 3. Ambient temperature: -10°C~50°C. De-rating 1% per centigrade additional for temperature >50°C
- 4. Vibration: Less than 5.9 m/s²(0.6g)
- 5. Storage temperature: -40~70°C
- 6. Protection grade: IP20
- 7. Type of cooling: Air cooling

Applications:

Fan, Oil pump, Water pump, compressor, injection molding machine, engraving machine, textile, packaging, conveyor, treadmill, Printing machine, Lathe, Machine tool, hydraulic machine, wire drawing, winder/un-winder, etc.

GTAKE AC Motor Drives At a glance:



