



## GK310 High Performance Vector Control AC Drive

The **GK310** AC drive features a compact, book-type design that facilitates easy installation and maintenance. It is capable of driving both asynchronous and synchronous motors, delivering an impressive starting torque of 150% at 0.25Hz in open-loop control. With high-frequency output and a 12-fold magnetic flux weakening speed range, the GK310 ensures precise output control and outstanding performance. Its advanced auto-tuning feature and extensive functionalities make it a premium choice for a variety of industrial applications.

### COMPATIBILITY

Asynch motor    Synch motor

### CONTROL MODE

V/Hz control    SVC

### POWER RATINGS

3 × 200 ~ 240V    0.4kW ~ 55kW  
3 × 380 ~ 440V    0.75kW ~ 450kW

### HIGHLIGHTS

Start Torque @ 0.25Hz  
**150%**

Speed Fluctuation  
**±0.3%**

Speed Regulation  
**1:200**

Overload Capability  
**200%**

Speed Control Accuracy  
**±0.2%**

Torque Response <  
**10ms**

### I/O TERMINALS

DI	× 5	DO	× 1	Relay output	× 2	Communication port	× 1
AI	× 2	AO	× 1	485	× 1		

**COMPACT POWER,  
OUTSTANDING PERFORMANCE**

**WHY  
CHOOSE  
GK310**



- Book-type design.
- Stacked architecture for easy installation and maintenance.
- Independent airflow design.
- Ceramic plate heat dissipation design.
- Temperature rise below **40°C**.
- Supports DIN-Rail mounting.
- Supports side-by-side installation



- High-performance open-loop vector control algorithm, excellent motor control performance.
- Multi-mode V/Hz algorithm to meet various dedicated requirements.
- Strong compatibility of synchronous motor control algorithms, excellent performance, suitable for various PMSMs.
- Comprehensive current and voltage control algorithms to maximize fault-free operation of the system.



- Multiple overcurrent protection and hardware/software overvoltage protection.



- Support communication cards and functional expansion cards.



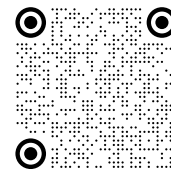
- Customized software based on customer requirements.



- External keypad for convenient on-site commissioning.
- High resolution potentiometer on keypad.



Machine tools, textiles, woodworking, mining, food-processing, chemicals, plastics, cables, crane & hoist, ceramics, fans, pumps, etc.



Scan QRcode for models & dimensions of GK310

Contact GTAKE for more products and solutions.

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