



GD350 is a brand new high-performance inverter. It is highly extensible and flexible with PG card, PLC card, communication card and IO card, meeting the demands of various industries. It's oriented for medium and high-end OEM equipment markets, mainly covering the applications of printing and packaging, winding equipment, paper machinery, shearing equipment, textile machinery, HVAC, etc.

Features:

1. Supports SVC and VC(Closed loop) control for both asynchronous and synchronous motors.
2. Enables high precision of speed, position, torque control and fast speed response.
3. Supports optional PLC cards with CODESYS programming function.
4. Supports optional Field bus communication cards, including PROFIBUS-DP, CANopen, and EtherCAT, etc.
5. Supports optional PG cards for encoders like incremental, absolute value, Sin-Cos, and rotary transformer.
6. Accepts plug-in of three expansion cards simultaneously (only two cards below 4kW).
7. Integrates safety function-STO(Safe Torque OFF, SIL2)
8. Unique I/F control and online transition with other control modes, very suitable for the situation where the asynchronous motor has low speed with high torque and the speed accuracy is not high.
9. Provides standard USB2.0(A type) ports to download firmware, and intuitive LCD keyboard with maximum 16 lines text display as well as graphical display, Wizard Mode to set parameters while powered on.
10. Supports optional Bluetooth card and WiFi card to realize wireless communication.

| Function Description | | Specifications |
|---|---|--|
| Power Input | Input Voltage(V) | 3-phase 380V(-15%) ~ 440V(+10%), Rated voltage: 400V 3-phase 520V(-15%) ~ 690V(+10%), Rated voltage: 660V |
| | Input Frequency(Hz) | 50Hz/60Hz. Allowed range:47~63Hz |
| Power Output | Output Voltage(V) | 0~input voltage |
| | Output Current(A) | Refer to the rated value |
| | Output Power(kW) | -4: 1.5~500kW |
| | Output Frequency(Hz) | 0~400Hz |
| Technical Control Features | Control Mode | SVPWM, SVC, VC |
| | Motor Type | Asynchronous motor and permanent magnet synchronous motor |
| | Adjustable-Speed Ratio | Asynchronous motor 1:200 (SVC) , synchronous motor 1:20 (SVC) , 1:1000(VC) |
| | Speed Control Accuracy | ±0.2% (SVC), ±0.02%(VC) |
| | Speed Fluctuation | ± 0.3% (SVC) |
| | Torque Response | <20ms(SVC), <10ms(VC) |
| | Torque Control Accuracy | 10%(SVC), 5%(VC) |
| | Starting Torque | Asynchronous motor: 0.25Hz/150%(SVC) |
| | | Synchronous motor: 2.5Hz/150%(SVC) |
| | | 0Hz/200%(VC) |
| Overload Capability | 150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second | |
| Peripheral Interface | Analog Input | 2 |
| | Analog Output | 1 |
| | Digital Input | 4 DI |
| | | 2 HDI |
| | Digital Output | 1 Y1 |
| | | 1 HDO |
| | Relay Output | 2 Relay |
| RO1A NO, RO1B NC, RO1C Common | | |
| Communication | Built-in RS485, USB | |
| STO | 2 STO inputs, SIL 2 | |
| Others | Mountable Method | Wall, flange and floor mountable |
| | Temperature Of The Running Environment | -10~50°C, derate above 40°C |
| | Protective Degree | IP20 |
| | Cooling | Air-cooling |
| | Braking Unit | Standard built-in for inverters of 400V(≤75kW) |
| | PLC Card(Optional) | 7 DI, 2 DO, 2 Relay |
| | I/O Card(Optional) | 4 DI, 1 DO, 1 AI, 1 AO, 2 Relay |
| | EMC Filter | Built-in C3 filters: meet the degree requirement of IEC61800-3 C3 |
| External filter: meet the degree requirement of IEC61800-3 C2 | | |