




IO extension Card	Programmable extension card	Bluetooth communication card	CANopen communication card
EC-IO501-00	EC-PC501-00	EC-TX501	EX-TX504
			
PROFIBUS-DP Communication card	Multi-function incremental PG card	UVW incremental PG card	Resolver PG card
EC-TX503	EC-PG505-12	EC-PG503-05	EC-PG504-00

Goodrive350 IP54



Product Introduction

GD350 IP54 series inverters are the latest branches of the GD350 series. They provide the same control methods and extended functions as GD350 inverters. Some models can be configured with optional built-in DC reactors as required by customers. The full-sheet metal structure is adopted, supporting wall-mounting and flange installation. LCD keypads are the standard configuration. They are especially applicable in scenarios with harsh dust and water vapor conditions, such as those with HVAC, fans and pumps, stone, and wood.

Features

1. Ingress protection rating of IP54, applicable to working environments with harsh dust and water vapor conditions (Same as 3S in NAME)
2. Supporting both heavy and light loads, integrated G and P types
3. Reserving interfaces for implementing the real-time clock function
4. Supporting optional built-in DC reactors (30–110 kW)
5. Built-in brake resistors (4–37 kW)

Guide for model selection

GD350 – 022G/030P – 4 5

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Field	Sign	Description	Contents
Abbreviation of product series	①	Abbreviation of product series	GD350: Goodrive350 high-performance multi-function inverter
Rated power	②	Power range + Load type	022: 22kW G—Constant torque load P—Special for fans and pumps
Voltage level	③	Voltage level	4: AC 3PH 380V(-15%)—440V(+10%)
IP level	④	IP level	5: IP54

Product specification

Function description	Specification
Control mode	SVPWM control, SVC, VC
Motor type	Asynchronous motor, permanent-magnet synchronous motor
Speed regulation ratio	Asynchronous motor 1: 200 (SVC); Synchronous motor 1:20 (SVC) , 1:1000 (VC)
Speed control precision	±0.2% (SVC), ±0.02% (VC)
Speed fluctuation	± 0.3% (SVC)
Torque response	<20ms SVC) , <10ms (VC)
Torque control precision	10% (SVC) , 5% (VC)
Starting torque	Asynchronous motor: 0.25Hz/150% (SVC) Synchronous motor: 2.5 Hz/150% (SVC) 0Hz/200% (VC)
Overload capacity	150% of rated current: 1min; 180% of rated current: 10s; 200% of rated current: 1s

Function description	Specification	
Running control performance	Frequency setup mode	Digital, analog, pulse frequency, multi-step speed running, simple PLC, PID, MODBUS communication, PROFIBUS communication, etc.; Realize switch-over between the set combination and the set channel
	Automatic voltage Regulation function	Keep the output voltage constant when grid voltage changes
	Fault protection function	Fault protection function Provide over 30 kinds of fault protection functions: overcurrent, overvoltage, undervoltage, over-temperature, phase loss and overload, etc
	Speed tracking restart function	Realize impact-free starting of the motor in rotating Note: This function is available for 4kW and above models
Peripheral interface	Terminal analog input resolution	No more than 20mV
	Terminal digital input resolution	No more than 2ms
	Analog input	2 inputs, AI1: 0–10V/0–20mA; AI2: -10–10V
	Analog output	1 output, AO1: 0–10V /0–20mA
	Digital input	Four regular inputs; max. frequency: 1kHz; internal impedance: 3.3kΩ Two high-speed inputs; max. frequency: 50kHz; supports quadrature encoder input; with speed measurement function
	Digital output	One high-speed pulse output; max. frequency: 50kHz One Y terminal open collector output
	Relay output	Two programmable relay outputs RO1A NO, RO1B NC, RO1C common port RO2A NO, RO2B NC, RO2C common port Contact capacity: 3A/AC250V, 1A/DC30V
Others	Extension interface	Three extension interfaces: SLOT1, SLOT2, SLOT3 Expandable PG card, programmable extension card, communication card, I/O card, etc
	Installation mode	Support wall-mounting and flange-mounting
	Temperature of running environment	-10–50°C, derating is required if the ambient temperature exceeds 40°C
	Protection level	IP54(3S in NAME)
	Pollution level	Level 3
	Cooling mode	Air cooling
	Brake unit	Built-in brake unit for 380V 4kW–37kW
	DC reactor	Built-in options in 30kW–110kW
EMC filter	380V models fulfill the requirements of IEC61800-3 C3 Optional external filter should meet the requirements of IEC61800-3 C2	

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Goodrive350 Series High-performance Multi-function Inverter

