

# Goodrive10 inverters



## Standard wiring

Wiring diagram of main circuit

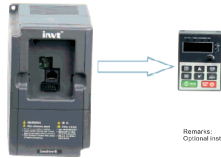
### GD10 - 2R2G - 4 - B

- ①
- ②
- ③
- ④



- Remarks:
1. Natural cooling, single phase or three phase 230V, 0.2-0.75kW.
  2. Air forced cooling, single phase or three phase 230V, 1.5-2.2kW, three phase 380V, 0.75-2.2kW.

#### 4. Standard potentiometer and external LED keypad



Remarks:  
Optional installation brackets needed when install external keypad.

## Technical specifications

Function	Specification
Input voltage (V)	230V: input voltage range: single phase or three phase 230V 10% 400V: input voltage range: three phase 400V 15%
Input frequency (Hz)	50Hz or 60Hz Allowed range: 47-63Hz
Output voltage (V)	Equal to input voltage with the deviation of less than 5%
Output frequency (Hz)	50Hz/60Hz; Fluctuation range: 5%
Control mode	V/F control
Maximum output frequency	200Hz
Adjustable-speed ratio	0.1111111111
Overload capability	150% of rated current, 1 minute
Analog input resolution	±20mV
Digital input resolution	±2ms
Analog input/output	Input: 1 0-10V or 0-20mA, output: 1 0-10V or 0-20mA
Digital input/output	5 Channels digital input, 1 Y terminal output and 1 programmable relay output
Communication	MODBUS
Mountable mode	Wall mounting
Temperature of the running environment	-10-50°C, derate above 40°C
Cooling	Single/three-phase 230V 0.2-0.75kW natural cooling Single/three-phase 230V 1.5-2.2kW, three-phase 400V 0.75-2.2kW
Fault protections	Overcurrent, overvoltage, undervoltage, overtemperature, overload and other protections
Braking unit	Only standard for GD10-B

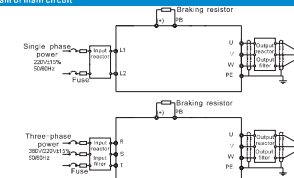
## Applications:

Packaging machinery, food machinery, textile machinery, centrifuge, engraving machine, and cutting machine, etc.

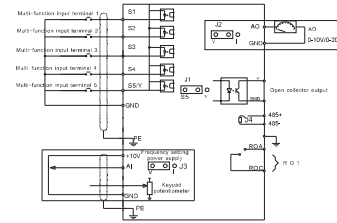
Field identification	Sign	Detailed description of the sign	Detailed content
Abbreviation	①	Product abbreviation	Goodrive10 is shorted for GD10
Rated power	②	Power range + Load type	2R2: 2.2kW
			GC: constant torque load
Voltage degree	③	Voltage degree	2: three-phase 230V
			S2: single-phase 230V
Lot No.	④	Lot No.	Default: No braking unit
			B: Built-in braking unit

## Standard wiring

Wiring diagram of main circuit



Wiring diagram of control circuit

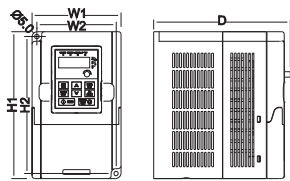


## Rated specifications

Model	Output power (kW)	Input current (A)	Output current (A)	
Single phase 230V	GD10-0R2G-S2-B	0.2	4.9	1.6
	GD10-0R4G-S2-B	0.4	6.5	2.5
	GD10-0R7G-S2-B	0.75	9.3	4.2
	GD10-1R5G-S2-B	1.5	15.7	7.5
	GD10-3R2G-S2-B	2.2	24	11
	GD10-0R2G-2-B	0.2	1.9	1.6
Three-phase 230V	GD10-0R4G-2-B	0.4	2.7	2.5
	GD10-0R7G-2-B	0.75	4.9	4.2
	GD10-1R5G-2-B	1.5	9	7.5
	GD10-3R2G-2-B	2.2	15	11
Three-phase 400V	GD10-0R7G-4-B	0.75	3.2	2.5
	GD10-1R5G-4-B	1.5	4.3	4.2
	GD10-3R2G-4-B	2.2	7.1	5.5

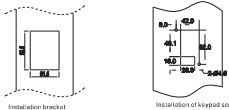
## Installation dimension

- 1. Inverter dimensions
- 2. Natural cooling (for the applications with cotton and dust)
- 3. Mini structure, less installation space



Model	W1 (mm)	W2 (mm)	H1 (mm)	H2 (mm)	D (mm)
GD10-0R2G-S2-B	85	74	140	131.5	134.2
GD10-0R4G-S2-B	85	74	140	131.5	134.2
GD10-0R7G-S2-B	85	74	140	131.5	134.2
GD10-1R5G-S2-B	100	89	165	154	153.2
GD10-3R2G-S2-B	100	89	165	154	153.2
GD10-0R2G-2-B	85	74	140	131.5	134.2
GD10-0R4G-2-B	85	74	140	131.5	134.2
GD10-0R7G-2-B	85	74	140	131.5	134.2
GD10-1R5G-2-B	100	89	165	154	153.2
GD10-3R2G-2-B	100	89	165	154	153.2
GD10-0R7G-4-B	100	89	165	154	153.2

## 2. External keypad installation



## 6. Various function setting

- (1) Standard Modbus communication
- (2) Built-in PID
- (3) 16 steps multi-step speed control
- (4) Flexible V/f curve setting
- (5) Multi-function I/O terminal (the delay time can be set)
- (6) Fault protection at overcurrent, overvoltage, undervoltage, overtemperature and overload with detailed fault information
- (7) DC braking, flux braking and resistor dynamic braking
- (8) Overcurrent and overvoltage stall, stronger load adaptability

(Unit: mm)