

CVF7N Mini Vector Inverter



General

The CVF7N Series Mini Inverter is a compact and economical solution designed for a wide range of automation applications.

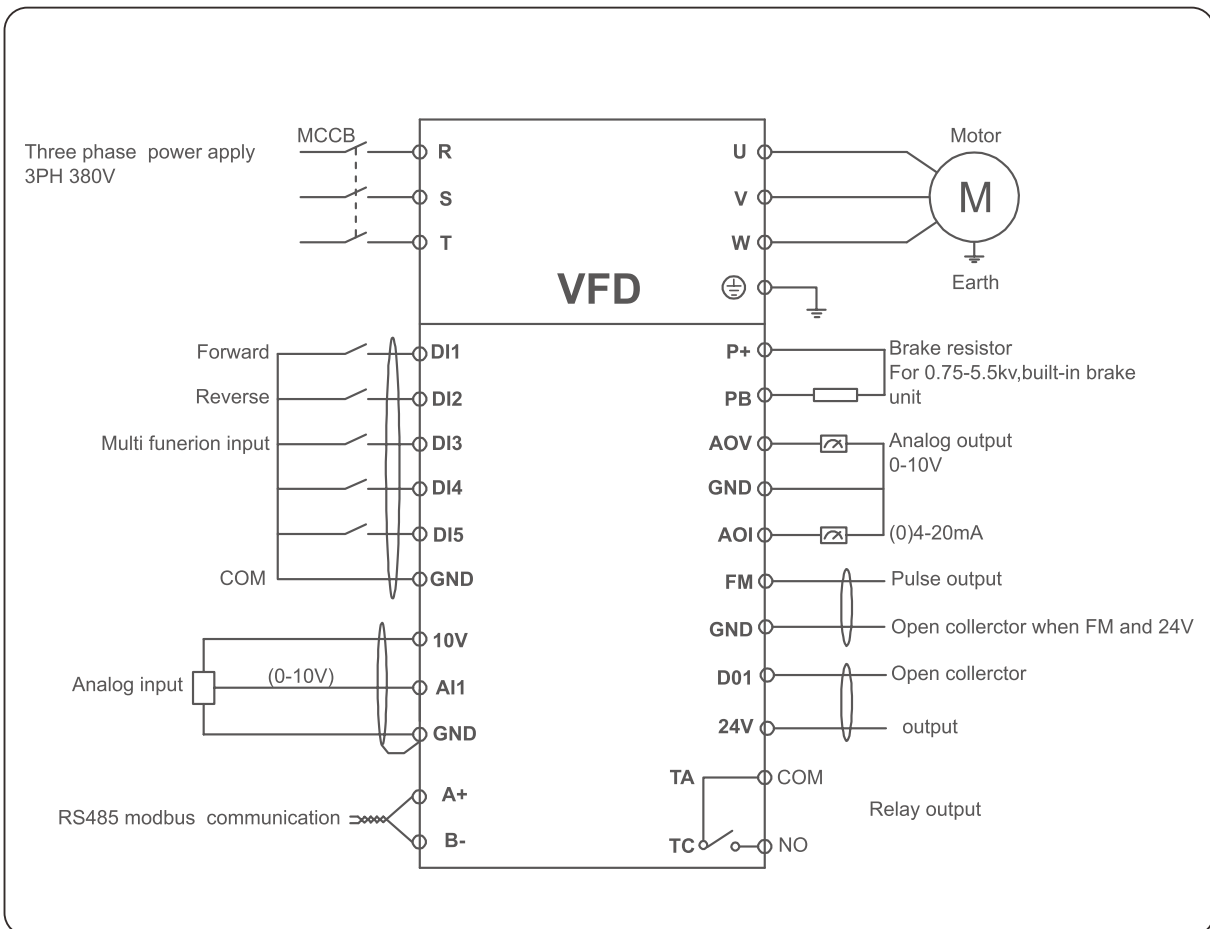
It is suitable for textile machinery, paper making, machine tools, packaging equipment, fans, water pumps, and other automatic equipment.

With stable performance and easy operation, it ensures efficient and reliable motor control.

Selection

CVF7N	2S	0007G
Model	Input Level	Applicable Motor Power
VFD	2S: 1 phase 220V	0004G: 0.4kW
		0007G: 0.75kW
		0015G: 1.5kW
		0022G: 2.2kW
		0055G: 5.5kW
	4T: 3 phase 380V	0007G: 0.75kW
		0015G: 1.5kW
		0022G: 2.2kW
		0040G: 4kW
		0055G: 5.5kW

Wiring Diagram



Technical Parameters

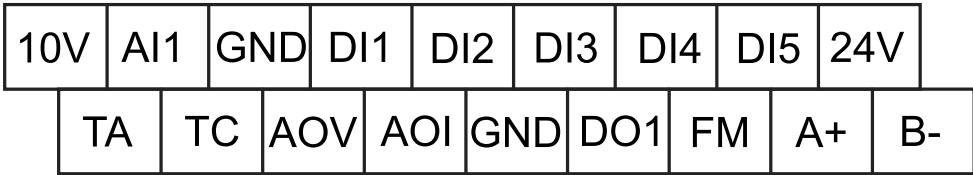
Model	Power Supply Capacity KVA	Input Current A	Output Current A	Adaptable Motor	
				KW	HP
One phase power supply:220V,50HZ/60HZ					
2S0007G	1.5	8.2	4.0	0.75	1
2S0015G	3.0	14.0	7.0	1.5	2
2S0022G	4.0	23.0	9.6	2.2	3
Three phase power supply:380V,50HZ/60HZ					
4T0007G	1.5	3.4	2.1	0.75	1
4T0015G	3.0	5.0	3.8	1.5	2
4T0022G	4.0	5.8	5.1	2.2	3
4T0040G	5.9	10.5	9.0	3.7	5
4T0055G	8.9	14.6	13.0	5.5	7

Technical Index

Interface and Terminal Function Description

Terminal	Name	Function Description
R、S、T	Ac power input terminal	4T models: Connect to three-phase AC power supply. 2S models: Use R and T terminals for single-phase 220V input.
P+、PB	Brake resistor terminal	Connect brake resistor
U、V、W	Output terminal	Connect three-phase motor
	Earth terminal	Grounding Connection

Control Circuit Terminal Diagram

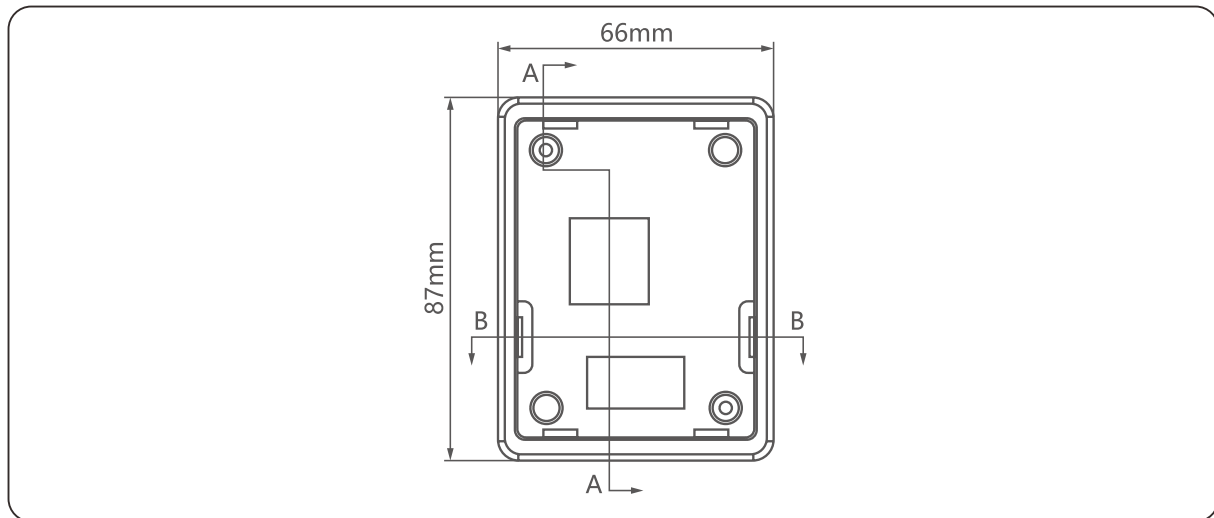


Desription of Control Circuit Terminals

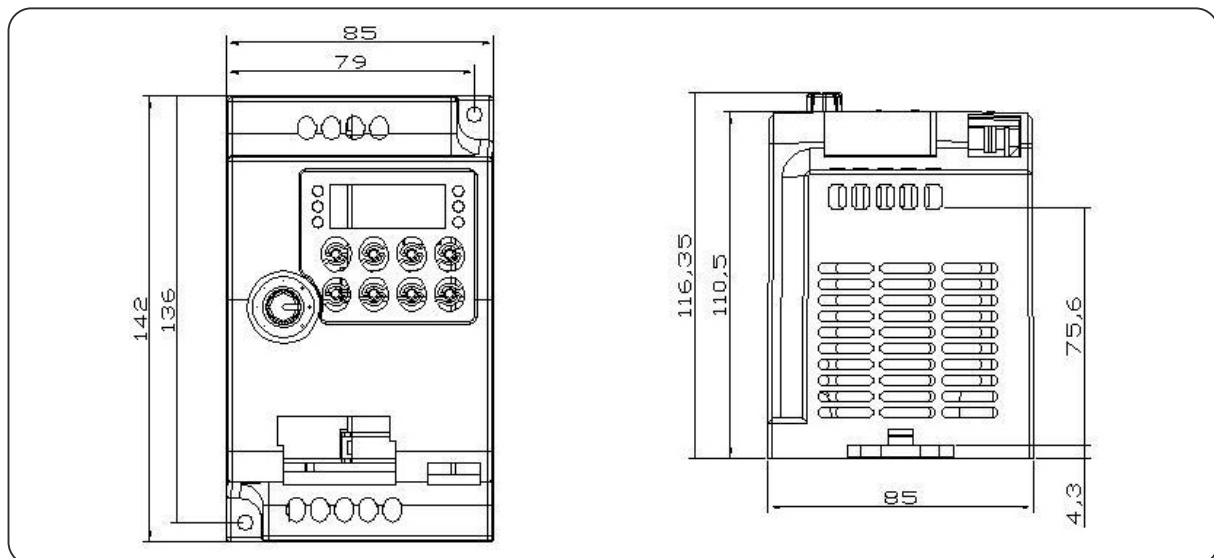
Item	Terminal	Name	Function Description
Power supply	10V-GND	External 10V power supply	1kΩ-5kΩ Provide+10V power supply to external unit.Generally, it provides power supply to external potentiometer with resistance range of 1-5 kΩ.Maximum output current:10 mA
	24V-GND	External 24V power supply	Provide +24 V power supply to external unit.Generally,it provides power supply to DI/DO terminals and external sensors.Maximum output current:200 mA
Analog input	AI1-GND	Analog input terminal 1	Input range:DC 0V~10V/0mA~20mA.decided by P4-39. Resistance input:22kΩ(voltageinput),500 Ω(current input)
Digital input	DI1-GND	Digital input 1	Resistance input:1kΩ Voltage range for level input:5-30V
	DI2-GND	Digital input 2	
	DI3-GND	Digital input 3	
	DI4-GND	Digital input 4	
	DI5-GND	High-speed pulse Input terminal	Besides features of DI1-DI4,it canbe used forhigh-speed pulse input.Maximum input frequency:20 KHz
Analog output	AOV-GND	Analog output	Output voltage range:0-10V Output current range:0-20 mA
	AOI-GND		
Digital output	DO1-GND	Digital output 1	Optical coupling isolation,dual polarity open collector output Output voltage range:0-24V Output current range:0-50 mA
	FM-GND	High-speed pulse output	It is limited by F5-00(FM terminal output mode selection).As high-speed pulse output,the maximum frequency hits 20 kHz.As open-collector output,its specification is the same as that of DO1
	TA-TC	Relay NO terminal	Contact driving capacity:250Vac,3A,COSφ=0.430Vdc,1A
Communication terminal	A+-B-	485 communication terminal	MODBUS-RTU protocol communication input and output signal terminals

Dimensions and Installation Sizes(mm)

Installation Dimension Diagram of Outer Panel



Product Dimension Diagram, Installation Diagram 0.75~2.2kW



Product Dimension Diagram, Installation Diagram 4~5.5kW

