

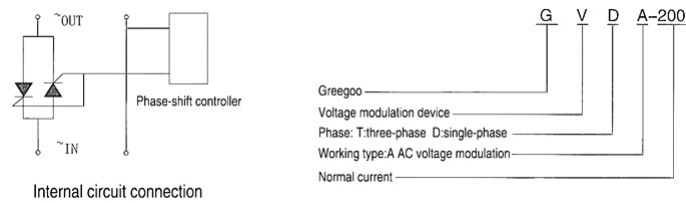


GVDA series single phase AC switching module

GVDA introduction

This product is a multi-functional power module, which integrates thyristor power circuit, SCM-control phase-shift trigger circuit, signals detects and transfer circuit, voltage modulation circuit. It can realize the precise control of the voltage of the load. With built-in linear control circuit, it is highly precise and stabilized. Rated current: 50-500A, rated voltage: 220V, 380V, 440V, 50Hz or 60Hz. It is widely used in all kinds of induction and impedance loads, for instance: AC motor, transformer, temperature control, light change, AC voltage modulation.

Internal connection, classification and name



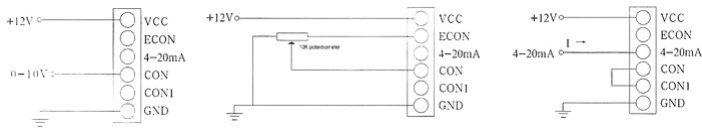
Main technical standards(GVDA-50;70;120;200;250;350;500)

Function	Thyristor AC single-phase voltage modulation							
Input voltage	220V±20% 380V±20% 440V±20%							
Asymmetry degree of output positive and negative waves	≤2%							
Controlling voltage	0-10VDC (input resistance 10KΩ)							
Controlling current	4-20mA (input resistance 330Ω)							
Hand-control potentiometer resistance	10KΩ							
Colling method	Wind-colling radiator							
Ambient temperature	-30°C~ +40°C							
Storage temperature	-25°C~ +55°C							
Main circuit parameter								
Parameter	Unit	Value						
Load current	Arms	50	70	120	200	250	350	500
TRIAC over voltage	Vpk	800-1200						
Frequency	Hz	50-60						
Off state voltage rising rate	V/sec	500						
On state voltage rising rate	A/sec	100						
Off state leakape current	mArms	≤8	≤10	≤10	≤10	≤15	≤20	≤20
On state leakage current	Vrms	1.6	1.6	1.6	1.8	1.8	1.8	1.8
Voltage drop insulating voltage	Vrms	≥2500						
Weight	Kg	0.425			2.2			

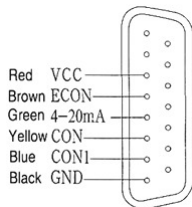
Exterior and installation dimensions

Connections of control lines(50-120A module)

- 10V voltage control - 10K potentiometer control - 4-20mA control



Remarks:the interfaces of 200A—500A modules:VCC(red)CON1(blue)Econ(orange)CON(yellow)4-20mA(green)GND(black)others are blank See the right map connections is the same as above.



Dimensions

