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GVDA 50-120A



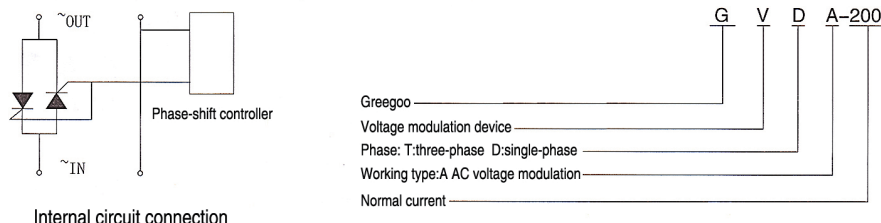
GVDA 200-500A

GVDA series single phase AC switching module with phase-shift voltage regulating controller

1. 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.

2. Internal connection, classification and name



3. 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 10K)
Controlling current	4-20mA (input resistance 330)
Hand-control potentiometer resistance	10KΩ
Colling method	Wind-colling radiator
Ambient temperature	-30°C~ +40°C
Storage temperature	-25°C~ +55°C

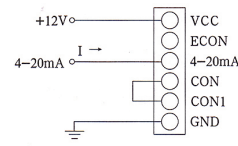
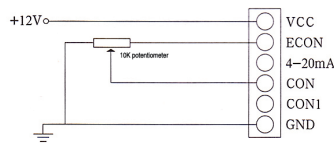
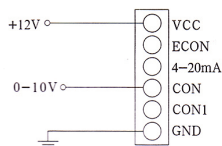
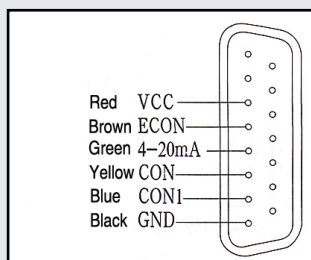
Main circuit parameter

Parameter	Unit	Value								
Load current	Arms	50	70	100	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 leakage current	mArms	≤8	≤10	≤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	1.8	
Voltage drop insulating voltage	Vrms	≥2500								
Weight	Kg	0.425				2.2				

4. 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.