



GVTA 50-120A



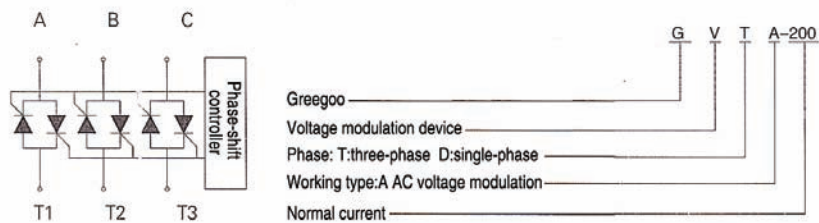
GVTA 200-500A

GVTA series three phase AC switching module with phase-shift voltage regulating controller

1. Introduction

This product is a multi-functional high-power module, which integrates thyristor circuit, phase-shift trigger modulation. It is an integrated phase-shift and open-loop system, protected by stable security function. It can realize the hand-control and automation of 3-phase voltage modulation. It is widely used in the fields such as, speed control of 3-phase AC electric motor, electric heating control, diversified power supplies, and industrial automation, chemicals, mines, textiles, and communications, etc. It has 0-10V and 4-20mA input interfaces, no phase order requirement of the main AC inputs. This module is highly precise, stable in quality and convenient in using.

2. Internal connection, classification and name



Internal circuit connection

3. Main technical standards(GVTA-50;70;120;200;250;350;500)

Function	Thyristor AC single-phase voltage modulation
Input voltage	380V±20%
Asymmetry degree of output positive and negative waves	12V,≤400mA
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
Input voltage asymmetry degree	≤6%

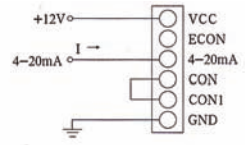
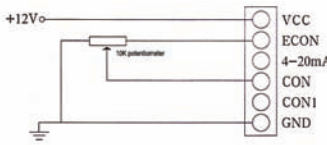
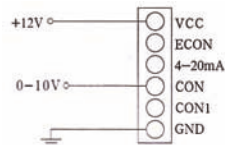
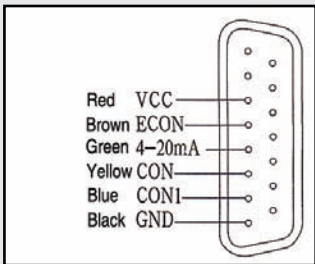
Main circuit parameter

Parameter	Unit	Value						
Load current	Arms	50	70	120	200	250	350	500
Max working current	Arms	3×50	3×70	3×120	3×200	3×250	3×350	3×500
TRIAC over voltage	Vpk	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	≤15	≤15	≤20
On state leakage current	Vrms	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.

1



GVDA 50-120A



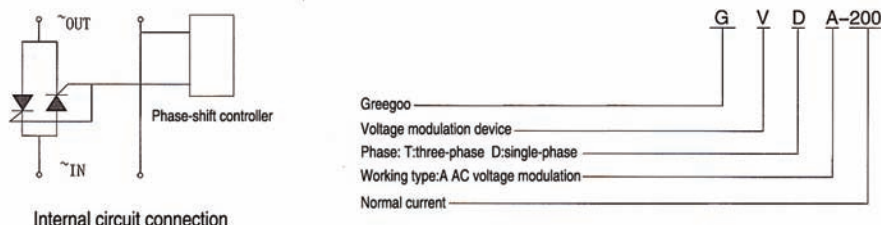
GVDA 200-500A

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

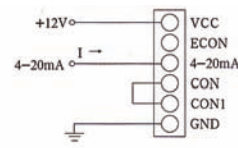
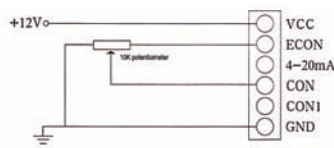
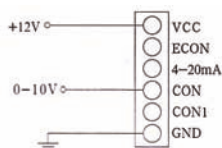
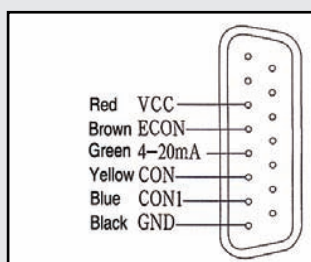
Main circuit parameter

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.