GVTA 50-120A

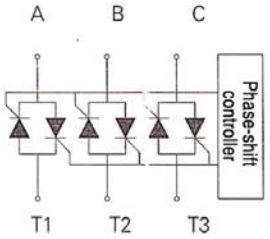
GVTA 200-500A

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

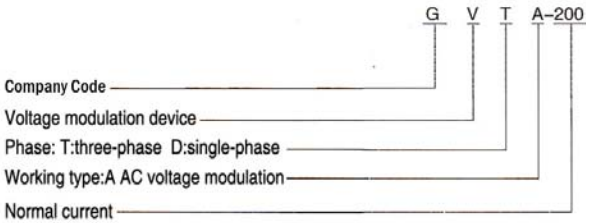
1. Introduction

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 inputinterfaces, 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



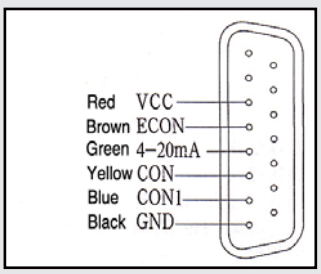
Internal circuit connection



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

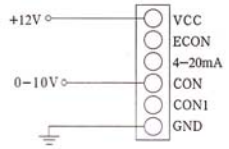
Function	Thyristor AC single-phase voltage modulation							
Input voltage	380V±20%							
Asymmetry degree of output positive and negative waves	12V,≤400mA							
Controlling voltage	0-10VDC (input resistance 10K)							
Controlling current	4-20mA (input resistance 330)							
Hand-control potentiometer 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 leakape current	mArms	≤8	≤10	≤10	≤10	≤15	≤15	≤20
On state leakape 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		

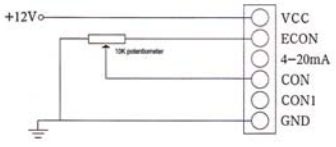
4. Exterior and installation dimensions

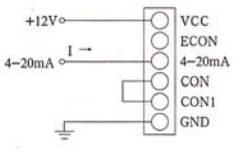


Connections of control lines（50-120A module）

■ 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.