



GVTR 50-120A



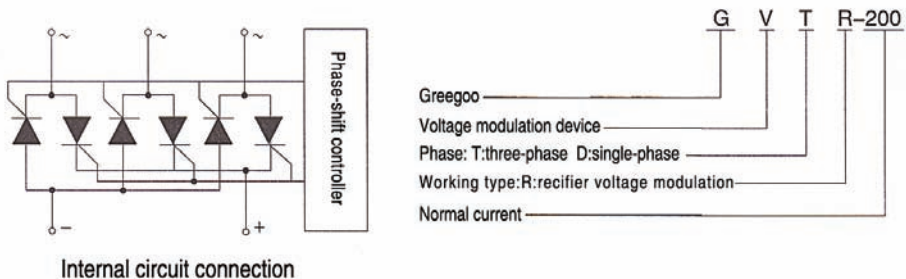
GVTR 200-800A

GVTR series three phase rectifier module with phase-shift voltage regulating controller

1. Introduction

This product is a multi-functional power module, which combines thyristor power circuit, phase-shift and trigger circuit. It is a integrated electricity phase-shift and open-loop system. It can realize the voltage control of the load. With built-in linear control circuit, it is highly precise and stabilized. It is widely used the fields such as speed modulation of DC motor, industrial automation, electric heating control, mechanical and electrical integration, diversified power supplies. It has hand-control and automation control interfaces, no phase order requirements of the AC inputs. With built-in linear control circuit, it is highly precise and stabilized.

2. Internal connection, classification and name



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

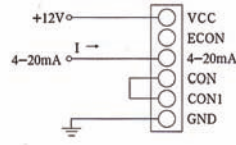
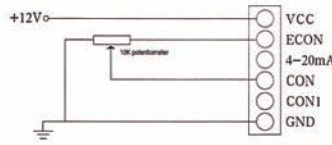
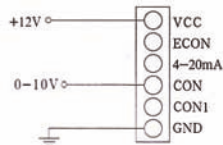
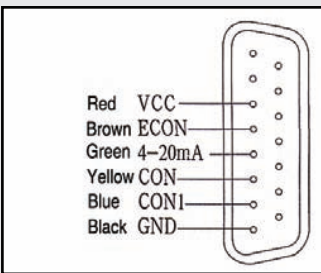
Function	3-phase thyristor AC voltage modulation
Input voltage	380V±20%
Power source	12V,≤400mA
Controlling voltage	0-10VDC
Controlling current	4-20mA
Hand-control potentiometer resistance	10KΩ
Colling method	Wind-colling radiator, wind speed≤6m/s
Ambient temperature	-30~+40°C
Output voltage	0-513DVC

Main circuit parameter									
Parameter	Unit	Value							
Load current	Arms	50	70	120	200	250	350	500	800
Max working current	Arms	3×50	3×70	3×120	3×200	3×250	3×350	3×500	3×800
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	≤20
On state leakape current	Vrms	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8
Voltage drop insulating voltage	Vrms	≥2500							
Weight	Kg	0.425				2.2			

4. Debugging method and Connection

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.

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GVDR 50-120A



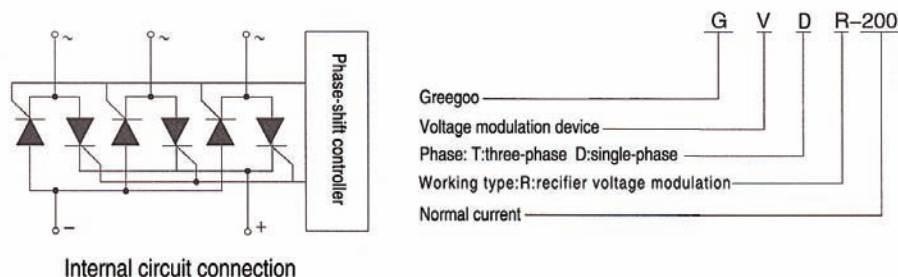
GVDR 200-800A

GVDR series single phase rectifier 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. It is widely used in all kinds of induction and impedance loads, for instance: DC motor, transformer, temperature control, light change, DC voltage modulation.

2. Internal connection, classification and name



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

Function	Thyristor AC single-phase commutation
Input voltage	220V±20% 380V±20%
Power source	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, wind speed≥6m/s
Ambient temperature	-30~+40°C
Output voltage	0-513DVC

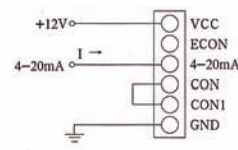
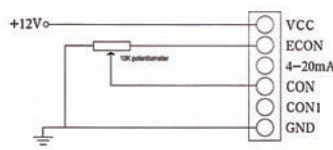
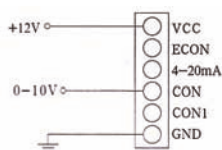
Main circuit parameter

Parameter	Unit	Value								
Load current	Arms	50	70	100	120	200	250	350	500	
Voltage of resistance thyristor	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	≤15	≤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



Red VCC
Brown ECON
Green 4-20mA
Yellow CON
Blue CON1
Black GND

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.