



GTH 200 to 500 Amps AC SSR

The GTH series three phase Solid State Relays is used three phase loads. SCR Output. GTH series is Dual SCR Power Hybrid technology provides highly efficient thermal management for greatly increased cyclic life.

- Three phase Solid State Relays
- Rated operational current 3x200, 3x300, 3x400 and 3x500Amps.
- High voltage (1400 Vpk) versions for 530 Vrms service.
- Both "Zero Voltage" & phase controllable "Random Switching" versions.
- Input Voltage Range 4 to 32 Vdc, 90 to 250Vac.
- 2500 Vrms Optical Isolation.(input/output)
- LED-indication for control input.

Type Selection

- Mounting type TH: AC Three phase SSR, SCR Output.
- Operational current 200: 3 200A, 300: 3 300A,400: 3 400A, 500: 3 500Amps
- Operational voltage Voltage :480V 530V.
- Control mode Z: Zero Voltage R: Random Switching.
- Input Control voltage D3: DC 4~32V A2: 90~250V.

Ordering Key

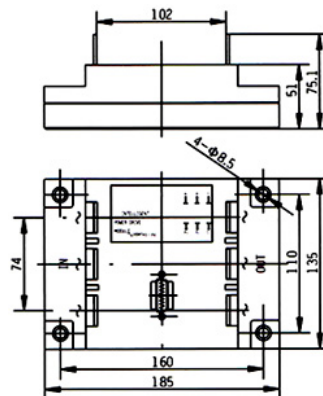
G D H 200 48 Z D1
1 2 3 4 5 6 7

- 1: Greegoo brand;
- 2: Switch type: S - small size (1-5A), D - single phase, T - three phase;
- 3: Output method, blank - triac output, H - SCR output;
- 4: Rated working current (A);
- 5: Rated working voltage (V) (24:240 V,44:440V,48:480V);
- 6: Control method Z - Zero, R - Random;
- 7: Control voltage D: 3-8V, D1 - 4-16VDC, D3 - 3-32VDC, A2 - 90-250VAC.

Selection guide

Voltage	Control voltage	Rated operational current			
		200Amp	300Amp	400Amp	500Amp
480 V _{AC} "Zero Voltage"	3~32 Vdc	GTH20048ZD3	GTH30048ZD3	GTH40048ZD3	GTH50048ZD3
	90~250 Vac	GTH20048ZA2	GTH20048ZA2	GTH40048ZA2	GTH50048ZA2
530 V _{AC} "Zero Voltage"	3~32 Vdc	GTH20053ZD3	GTH30053ZD3	GTH40053ZD3	GTH50053ZD3
	90~250 Vac	GTH20053ZA2	GTH30053ZA2	GTH40053ZA2	GTH50053ZA2
480 V _{AC} "Random"	3~32 Vdc	GTH20048RD3	GTH30048RD3	GTH40048RD3	GTH50048RD3
	90~250 Vac	GTH20048RA2	GTH30048RA2	GTH40048RA2	GTH50048RA2
480 V _{AC} "Random"	3~32 Vdc	GTH20053RD3	GTH30053RD3	GTH40053RD3	GTH50053RD3
	90~250 Vac	GTH20053RA2	GTH30053RA2	GTH40053RA2	GTH50053RA2

Dimension



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Specifications

INPUT PARAMETER ①	D3	A2
Control Voltage Range	3 to 32Vdc	90 to 250Vac
Input Current (Max.)	33/56 mAdc @-5V/24V	13 mAac @=220V
Must Turn On Voltage	3Vdc	90Vac
Must Turn Off Voltage	1.5Vdc	10Vdc
Reverse Voltage (Max.)	32Vdc	/
Display LED	yes	yes

OUTPUT PARAMETER ②	Units	Specification Limits			
Model No. GTH		200A	300A	400A	500A
Load Current Range	Arms	3X200	3X300	3X400	3X500
Surge Current, 20 mSec (Max.)	Arms	2100	5000	7000	8000
Load Voltage Range (480V)	Vrms	44 to 480			
TRIAC Over voltage (480V)	Vpk	≥1200			
Load Voltage Range (530V)	Vrms	53 to 530			
TRIAC Over voltage (530V)	Vpk	≥1400			
Frequency Range	Hz	47 to 63			
Min. Off-state dv/dt	V/μsec	500			
Off State Leakage Current (Max.)	mArms	<10	<10	<15	<20
On-State Voltage Drop (Max.)	Vrms	1.8			
Thermal Resistance, (Rthjc)	°C/W	0.14	0.09	0.072	0.065
Turn On Time (Max.) "Z"	Cycle	1/2			
Turn On Time (Max.) "R"	mSec	1			
Turn Off Time (Max.)	Cycle	1/2			
Turn Off Time (Max.) "A2"	mSec	40			

GENERAL SPECIFICATIONS

Dielectric (Input/Output)	Vrms	2500	2500	2500	2500
Dielectric (Input-Output/Base)	Vrms	2500	2500	2500	2500
Capacitance(Max.)	pf	10	10	10	10
Ambient Operating Temperature Range		-30°C to +80°C			
Ambient Storage Temperature Range		-30°C to +80°C			
Weight: (typical)	g	2200			
Base plate: Copper, nickel-plated					
Mounting Dimensions:	LxWxH	Case A: 185x135x76 mm			