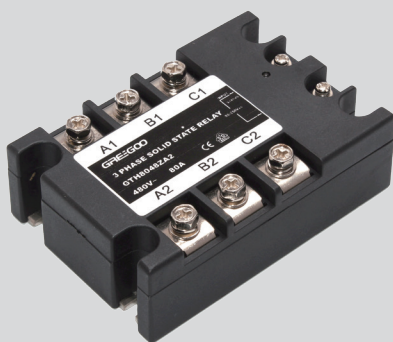


GTH 40 to 120Amps AC SSR



3 phase solid state relays (SCR output 40A to 120A)

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.

Feature:

- Three phase Solid State Relays
- Rated operational current 3X40, 3X60, 3X80, 3X100 and 3X120 Amps.
- High voltage (1400 Vpk) versions for 530 Vrms service.
- Both "Zero Voltage" & phase controllable "Random Switching" versions.
- Input Voltage Range 4 to 16 Vdc, 3 to 32 Vdc, 90 to 250Vac.
- 2500 Vrms Optical Isolation.(input/output)
- LED-indication for control input.

Symbol

G

Meaning

Greengoo

T

Three phase

H

SCR output

*

40-40A, 60-60A, 80-80A, 100-100A, 120-120A

*

48-480V, 53-530V, 66-660V

*

Z-zero control, R-random control

*

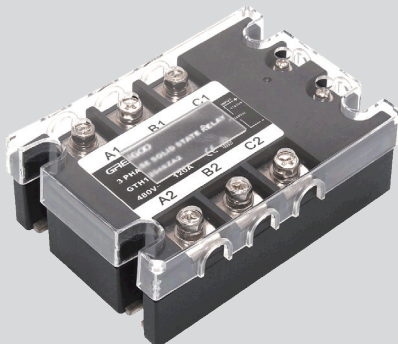
D1-4-16Vdc, D3-3-32Vdc, A2-90-250Vac

For example: GTH4048ZD3, 3 phase, 40A, 480Vac, 3-32Vdc control

Selection Guide

Rated Voltage	Control voltage	Rated operational current		
		40 Amp	60Amp	80Amp
480 VAC "Z"	4 to 16 Vdc	GTH4048ZD1	GTH6048ZD1	GTH8048ZD1
480 VAC "R"	4 to 16 Vdc	GTH4048RD1	GTH6048RD1	GTH8048RD1
480 VAC "Z"	3 to 32 Vdc	GTH4048ZD3	GTH6048ZD3	GTH8048ZD3
480 VAC "R"	3 to 32 Vdc	GTH4048RD3	GTH6048RD3	GTH8048RD3
480 VAC "Z"	90 to 250Vac	GTH4048ZA2	GTH6048ZA2	GTH8048ZA2
480 VAC "R"	90 to 250Vac	GTH4048RA2	GTH6048RA2	GTH8048RA2
530 VAC "Z"	4 to 16 Vdc	GTH4053ZD1	GTH6053ZD1	GTH8053ZD1
530 VAC "R"	4 to 16 Vdc	GTH4053RD1	GTH6053RD1	GTH8053RD1
530 VAC "Z"	3 to 32 Vdc	GTH4053ZD3	GTH6053ZD3	GTH8053ZD3
530 VAC "R"	3 to 32 Vdc	GTH4053RD3	GTH6053RD3	GTH8053RD3
530 VAC "Z"	90 to 250Vac	GTH4053ZA2	GTH6053ZA2	GTH8053ZA2
530 VAC "R"	90 to 250Vac	GTH4053RA2	GTH6053RA2	GTH8053RA2

Rated Voltage	Control voltage	Rated operational current	
		100 Amp	120Amp
480 VAC "Z"	4 to 16 Vdc	GTH10048ZD1	GTH12048ZD1
480 VAC "R"	4 to 16 Vdc	GTH10048RD1	GTH12048RD1
480 VAC "Z"	3 to 32 Vdc	GTH10048ZD3	GTH12048ZD3
480 VAC "R"	3 to 32 Vdc	GTH10048RD3	GTH12048RD3
480 VAC "Z"	90 to 250Vac	GTH10048ZA2	GTH12048ZA2
480 VAC "R"	90 to 250Vac	GTH10048RA2	GTH12048RA2
530 VAC "Z"	4 to 16 Vdc	GTH10053ZD1	GTH12053ZD1
530 VAC "R"	4 to 16 Vdc	GTH10053RD1	GTH12053RD1
530 VAC "Z"	3 to 32 Vdc	GTH10053ZD3	GTH12053ZD3
530 VAC "R"	3 to 32 Vdc	GTH10053RD3	GTH12053RD3
530 VAC "Z"	90 to 250Vac	GTH10053ZA2	GTH12053ZA2
530 VAC "R"	90 to 250Vac	GTH10053RA2	GTH12053RA2

GTH 40 to 120Amps AC SSR

Specifications

Output Parameter	Units	Specification Limits				
Model No.:GTH	Amp	40	60	80	100	120
Load Current Range	Arms	3x40	3x60	3x80	3x100	3x120
Surge Current 20mSec(Max.)	Arms	400	600	1000	1200	1500
Load Voltage Range(480V)	Vrms	44 to 480				
SCR Over voltage(480V)	Vpk	≥1200				
Load Voltage Range(530V)	Vrms	53 to 530				
SCR Over voltage(530V)	Vpk	≥1400				
Thermal Resistance,(Rthjc)	°C/w	0.46	0.38	0.34	0.23	0.23
Frequency Range	Hz	47 to 63				
Off State dv/dt (Min.)	V/μsec	500				
Off State Leakage Current(Max.)	mArms	≤8				
On State Voltage Drop(Max.)	Vrms	1.8				
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				
Dielectric (Input/Output)	Vrms	2500				
Dielectric (Input-Output/Base)	Vrms	2500				
Capacitance	pf	10				
Ambient Temperature Range	Operating or Storage -30°C to +80°C					
Weight (Typical)	490g					
Base Plate	Copper, nikel-plated					
Case Color	Black					
Led Display	Yes					

Dimension
