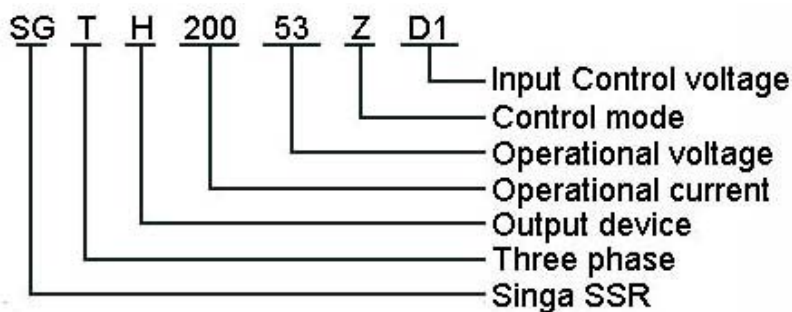


The SGTH series three phase Solid State Relays is used three phase loads. SCR Output. SGTH series is Dual SCR Power Hybrid technology provides highly efficient thermal management for greatly increased cyclic life.

- 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 250vVac.
- 2500 Vrms Optical Isolation.(input/output)
- LED-indication for control input.

### ORDERING KEY



### TYPE SELECTION

Mounting type	TH: AC Three phase SSR, SCR Output.
Operational current	200: 3x200A, 300: 3x300A, 400: 3x400A, 500: 3x500Amps
Operational voltage	Voltage :480V 530V.
Control mode	Z: Zero Voltage R: Random Switching.
Input Control voltage	D3: DC 4~32V A2: 90~250V.

### SELECTION GUIDE

Voltage	Control voltage	Rated operational current			
		200Amp	300Amp	400Amp	500Amp
480Vac	3~32 Vdc	SGTH20048ZD3	SGTH30048ZD3	SGTH40048ZD3	SGTH50048ZD3
Zero Voltage	90~250 Vac	SGTH20048ZA2	SGTH30048ZA2	SGTH40048ZA2	SGTH50048ZA2
530Vac	3~32 Vdc	SGTH20053ZD3	SGTH30053ZD3	SGTH40053ZD3	SGTH50053ZD3
Zero Voltage	90~250 Vac	SGTH20053ZA2	SGTH30053ZA2	SGTH40053ZA2	SGTH50053ZA2
480Vac	3~32 Vdc	SGTH20048RD3	SGTH30048RD3	SGTH40048RD3	SGTH50048RD3
Random	90~250 Vac	SGTH20048RA2	SGTH30048RA2	SGTH40048RA2	SGTH50048RA2
530Vac	3~32 Vdc	SGTH20053RD3	SGTH30053RD3	SGTH40053RD3	SGTH50053RD3
Random	90~250 Vac	SGTH20053RA2	SGTH30053RA2	SGTH40053RA2	SGTH50053RA2

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### SPECIFICATIONS

INPUT PARAMETER ①	D3	A2
Control Voltage Range	3 to 32Vdc	90 to 250Vac
Input Current (Max.)	33/56 mA <sub>dc</sub> @=5V/24V	13 mA <sub>ac</sub> @=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. <b>SGTH</b>		200A	300A	400A	500A
Load Current Range	Arms	3×200	3×300	3×400	3×500
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, (R <sub>thjc</sub> )	°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 to +80 °C			
Ambient Storage Temperature Range		-30 to +80 °C			
Weight: (typical)	g	2200			
Base plate: Copper, nickel-plated					
Mounting Dimensions: L×W×H Case A: 185×135×76 mm					

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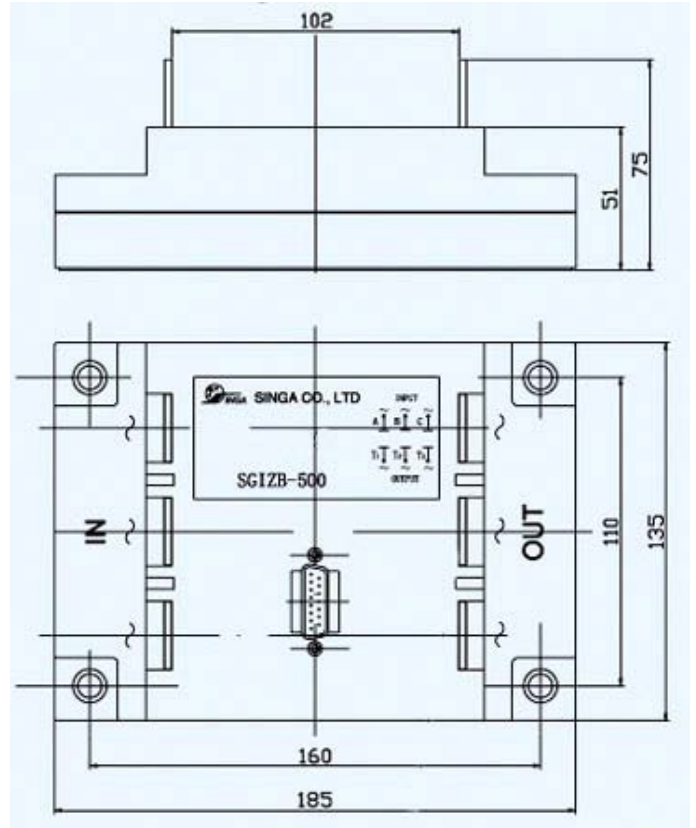
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