

200-500A three phase solid state relays

GTH series high current 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

Rated operational current
3X200, 3X300, 3X400, 3x500Amps.
High voltage (1400 Vpk) versions
for 660 Vrms service.
Input Voltage 4-32 Vdc, 160-240Vac
2500 Vrms Optical Isolation. (input/output)
LED indication for control input.

| Model | Load voltage | Load current | Control voltage | Status | Insulation voltage |
|-------------|--------------|--------------|-----------------|--------|--------------------|
| GTH20044ZD3 | 40-440VAC | 200A | 4-32VDC | LED | ≥2500VAC |
| GTH30044ZD3 | 40-440VAC | 300A | 4-32VDC | LED | ≥2500VAC |
| GTH40044ZD3 | 40-440VAC | 400A | 4-32VDC | LED | ≥2500VAC |
| GTH50044ZD3 | 40-440VAC | 500A | 4-32VDC | LED | ≥2500VAC |
| GTH20044ZA2 | 40-440VAC | 200A | 160-240VAC | LED | ≥2500VAC |
| GTH30044ZA2 | 40-440VAC | 300A | 160-240VAC | LED | ≥2500VAC |
| GTH40044ZA2 | 40-440VAC | 400A | 160-240VAC | LED | ≥2500VAC |
| GTH50044ZA2 | 40-440VAC | 500A | 160-240VAC | LED | ≥2500VAC |
| GTH20066ZD3 | 40-660VAC | 200A | 4-32VDC | LED | ≥2500VAC |
| GTH30066ZD3 | 40-660VAC | 300A | 4-32VDC | LED | ≥2500VAC |
| GTH40066ZD3 | 40-660VAC | 400A | 4-32VDC | LED | ≥2500VAC |
| GTH50066ZD3 | 40-660VAC | 500A | 4-32VDC | LED | ≥2500VAC |
| GTH20066ZA2 | 40-660VAC | 200A | 160-240VAC | LED | ≥2500VAC |
| GTH30066ZA2 | 40-660VAC | 300A | 160-240VAC | LED | ≥2500VAC |
| GTH40066ZA2 | 40-660VAC | 400A | 160-240VAC | LED | ≥2500VAC |
| GTH50066ZA2 | 40-660VAC | 500A | 160-240VAC | LED | ≥2500VAC |

Dimension: 120x84x56mm

Installation size: 50x106mm M4/M5 screw. Output terminals with RC absorption.

| Parameter | DC to AC | AC to AC |
|----------------------------|--|--|
| Control Voltage | 4~32 VDC | 160~240 VAC |
| Control Current | ≤25 mA | ≤25 mA |
| Start Current | ≥ 8 mA | ≥ 8 mA |
| Off Voltage | ≤1.5 VDC | ≤ 30 VAC |
| On/Off Time | ≤10 mS | ≤10 mS |
| Load Voltage | 24~440VAC×3; 24~660VAC×3 | 24~440VAC×3; 24~660VAC×3 |
| Peak Current | 200A to 500A | 200A to 500A |
| On-State Voltage Drop | ≤1.5 V | ≤1.8 V |
| Off-State Voltage | ≥ 800V | ≥ 1500V |
| Isolation Voltage | ≥ 2500 V | ≥ 2500 V |
| Insulation Voltage | ≥ 2500 V | ≥ 2500 V |
| Insulation Resistance | ≥ 100 MΩ | ≥ 100 MΩ |
| Operating Temperature | -25 ~ 75 °C | -25 ~ 75 °C |
| Power Frequency | 50/60 HZ | 50/60 HZ |
| Cooling Conditions | ≥20A with heatsink; ≥30A with additional fan cooling | ≥20A with heatsink; ≥30A with additional fan cooling |
| Load Current Safety Factor | Resistive load: 2-3 times; Inductive load: 3-4 times | Resistive load: 2-3 times; Inductive load: 3-4 times |
| Dimensions | 120×84×56mm | 120×84×56mm |

Diagram



