

Integral heatsink with DIN-rail mounting

A complete selection of solid state relays are available with a built-in heatsink (GTS/GTZ models). This eliminates the hassle of selecting and installing a properly sized heatsink, or mounting to a panel mount relay directly on the back pan with silicone thermoconductive grease.

Approvals

The Series GQ and GTZ solid state relays are cURus approved and CE marked. The GTZ DIN-rail solid state relays are cULus Listed and CE marked.



- ❶ Finger Safe Protection Covers
- ❷ AC or DC Input Connections
- ❸ AC Output Connection Models
- ❹ LED Status Indicator
- ❺ Internal MOV protection
- ❻ Integrated or optional heatsinks
- ❼ cURus, CE
- ❽ cULus, CE

Catalog Number Quick Guide

GQ- 15 - 24 - D - 1 - 4

	Nominal Current	Nominal Voltage	Control Voltage	Oversvoltage	Connectors
Hockey Puck	15 15A AC	24 230V AC	D 3...32V DC	1 Internal protection	4 Two-pin screw connector, low profile enclosed
1-Phase	25 25A AC	60 600V AC	A 20...260V AC		
Panel Mount	50 50A AC				
	90 90A AC				

GTS- 25 / 60 - D - 0 -

	Rated Current	Rated Voltage	Control Voltage	Alarm Output	Fan
1-Phase	15 15A AC	60 600V AC	D 6 32V DC	0 None	VEN-90 230V 14W
DIN Rail mount	25 25A AC		A 20...260V AC/DC		80x80x40
	40 40A AC				VEN-91 115V 14W
	50 50A AC				80x80x40
	60 60A AC				
	75 75A AC				Required on 120A models only
	90 90A AC				
	120 120A AC				

GTZ 40 / 60 - D - 0 - VEN-91

	Nominal Current	Nominal Voltage	Control Voltage	Alarm Output	Fan
3-Phase	25 25A AC	60 600V AC	D 5...32V DC	0 None	VEN-90 230V 14W
DIN Rail mount	40 40A AC		A 20...260V AC/DC		80x80x40
	55 55A AC				VEN-91 115V 14W
					80x80x40
					Required on 40A & 55A models only

Panel Mount "Hockey Puck" Relays and DIN Rail Mounted Solid State Relays up to 120 Amps



With over forty years of experience, Gefran is the world leader in the design and production of solutions for measuring, controlling, and driving industrial production processes. Gefran's know-how and experience guarantee continuity and tangible solutions. Gefran's line of solid state relays are the ideal solution for applications where high speed switching and long life are essential. In specific applications, solid state relays offer many advantages over electromechanical devices including no moving parts or contact arcing. In addition, solid state relays are directly compatible with logic components such as microprocessors and PLCs.



feature is important in certain medical, residential and industrial applications. The Gefran solid state relays also include built-in metal oxide varistor (MOV) protection to protect against internal damage to the solid state relay.

Output Circuit Features

The Gefran solid state relays feature zero voltage turn-on, which means they are designed to turn on at the next zero crossover after application of the control voltage. This limits electromagnetic interference, reducing the chance of damage to downstream equipment. A built-in MOV reduces the likelihood of damage to the relay from rapid changes in voltage (dv/dt) and transient voltages.

Common Applications

- Heating controls*
- Injection molding machines*
- Semiconductor manufacturing equipment*
- Glass processing*
- Welding controls*
- Food processing*
- Industrial & commercial ovens*
- Soldering machines*
- Medical equipment*
- Office machinery*
- Robotics*

Broad selection for many applications

The Gefran GQ solid state relays are available in single phase "hockey puck" models up to 90 amps and the GTS DIN-rail single phase units with integral heatsink up to 120 amps. The GTZ three phase models with integral heatsink up to 55 amps are also available.

Opto-isolated input limits current leakage

All Gefran solid state relays feature opto-isolated inputs where an internal LED signals a photosensitive element when output switching is to occur. This provides up to 4,000V isolation between the input voltage and the output voltage and also limits current leakage. This

Many safety and convenience features

All Gefran solid state relays come standard with an LED to indicate when the relay is in an operational state. This increases safety and speeds troubleshooting.

In addition, all GQ hockey puck type relays come standard with a load side cover that provides touch protection. The GTS DIN-Rail mounted relays also offer touch protection through the use of a removable protective cover plate.