

Solid State Relays

Compact series GTS (zero crossing) with heatsink



The compact GTS series of SSRs with heatsink are ideally suited for control panels where fast, wear and tear free switching, ease of mounting and slim construction are required.

GTS consist of a DIN-rail mounting heatsink and a replaceable solid state relay (GS).

Technical Information

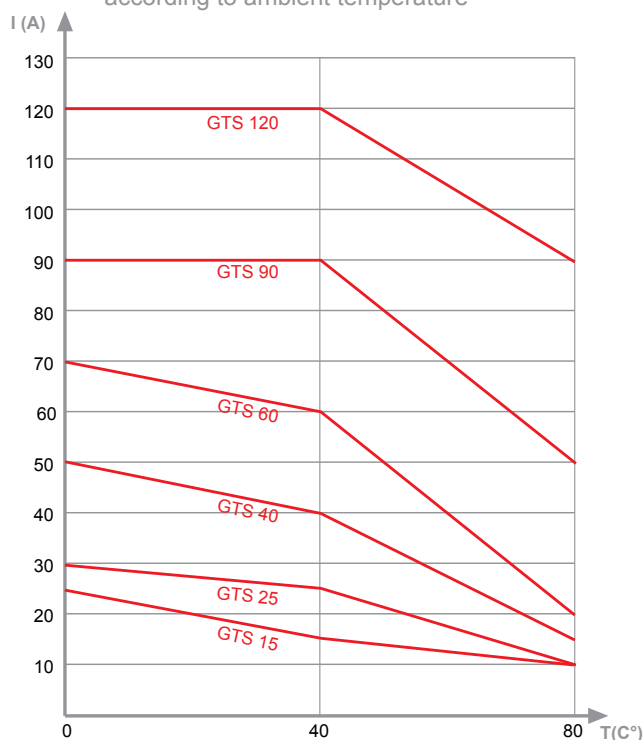
Features:

- Extremely compact
- Zero cross-over switching
- MOV varistor incorporated (transient suppression)
- Logic control: 6-32VDC

Installation notes:

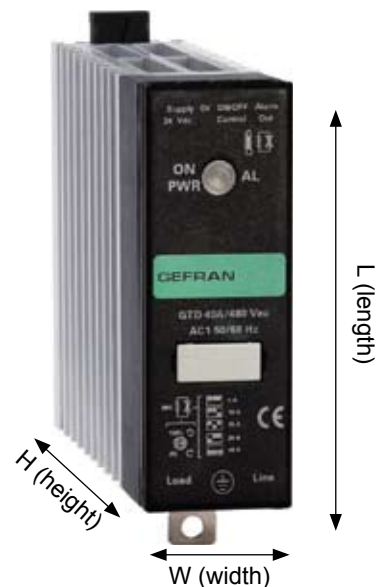
- Horizontal distance between two GTS: >20mm
- Horizontal distance between a GTS and panel wall: >100mm
- Mount GTS vertically, allowing natural convection over the heat sink.
- Avoid obstruction close to heatsinks (eg.cable channels)
- Allow ventilation of the panel or use an air conditioner
- Observe the current derating curves for high panel temperature
- Use suitably rated ultra-rapid fuses to protect against fault currents

Curves of rated current for GTS series according to ambient temperature



GTS Solidstate relays complete with heatsinks

stock code	Current Rating	Voltage Rating	trigger voltage	Size (mm) LxWxH
UCG-GTS015A-230	15A	230Vac	5--32VDC	108x24x107
UCG-GTS025A-230	25A	230Vac	5--32VDC	108x24x107
UCG-GTS040A-230	40A	230Vac	5--32VDC	108x35x142
UCG-GTS060A-230	60A	230Vac	5--32VDC	108x82x152
UCG-GTS090A-230	90A	230Vac	5--32VDC	108x127x145
UCG-GTS120A-230	120A	230Vac	5--32VDC	108x127x145
UCG-GTS015A-480	15A	480Vac	5--32VDC	108x24x107
UCG-GTS025A-480	25A	480Vac	5--32VDC	108x24x107
UCG-GTS040A-480	40A	480Vac	5--32VDC	108x35x142
UCG-GTS060A-480	60A	480Vac	5--32VDC	108x82x152
UCG-GTS090A-480	90A	480Vac	5--32VDC	108x127x145
UCG-GTS120A-480	120A	480Vac	5--32VDC	108x127x145

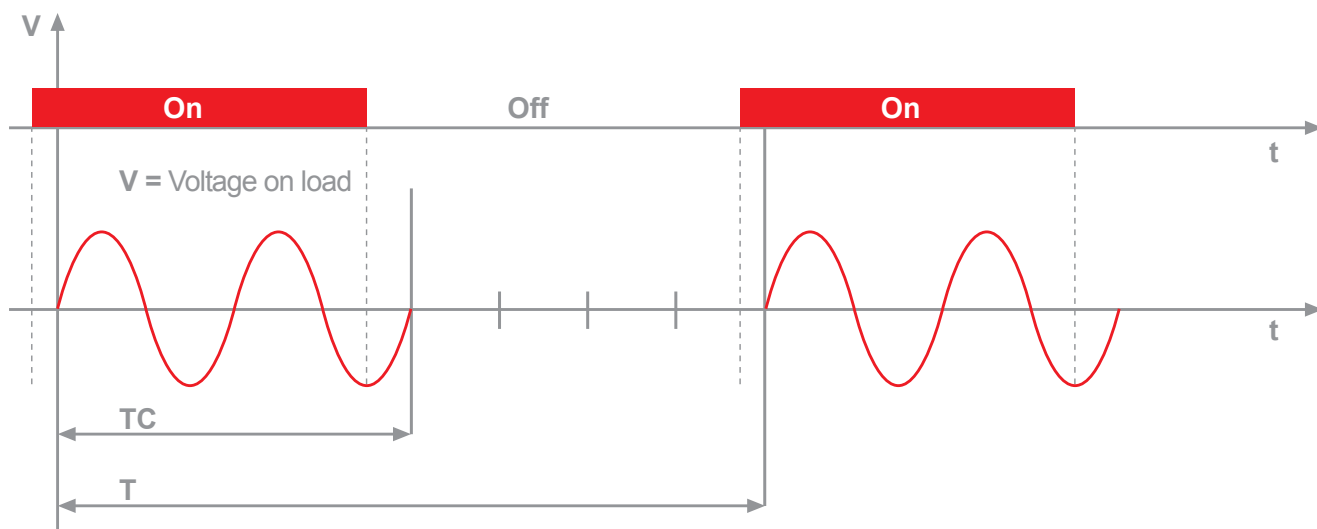


GS Solidstate relays without heatsinks (replacement part for GTS)

UCG-GS015A-230	15A	230Vac	5--32VDC	100x24x34
UCG-GS025A-230	25A	230Vac	5--32VDC	100x24x34
UCG-GS040A-230	40A	230Vac	5--32VDC	100x35x34
UCG-GS060A-230	60A	230Vac	5--32VDC	100x60x34
UCG-GS090A-230	90A	230Vac	5--32VDC	100x60x34
UCG-GS120A-230	120A	230Vac	5--32VDC	100x60x34
UCG-GS015A-480	15A	480Vac	5--32VDC	100x24x34
UCG-GS025A-480	25A	480Vac	5--32VDC	100x24x34
UCG-GS040A-480	40A	480Vac	5--32VDC	100x35x34
UCG-GS060A-480	60A	480Vac	5--32VDC	100x60x34
UCG-GS090A-480	90A	480Vac	5--32VDC	100x60x34
UCG-GS120A-480	120A	480Vac	5--32VDC	100x60x34



“Zero crossing” with variable cycle time



$$\text{Delivery power} = \text{installed power} \times \text{TC} / \text{T}$$