

## CROUZET - GN+ SERIES SOLID STATE RELAY

Panel Mount - AC Output Single Phase

84138010N  
 SSR 25A 12-270 VAC Out 4-32 VDC In SZC

- Zero cross switching
- Output current 25 - 125 Amps
- Built-in overvoltage protection
- LED input status indicator



### PRODUCT DESCRIPTION

## TECHNICAL DATA

### OVERVIEW

|                 |                              |
|-----------------|------------------------------|
| Output current  | 25 A                         |
| Output voltage  | 12-270V ac                   |
| Control voltage | 4-32V dc                     |
| Mounting        | Panel mount                  |
| Type of control | Special zero voltage turn on |

### OUTPUT SPECIFICATION

|  |                         |
|--|-------------------------|
| Output voltage   | 12-270V ac              |
| Maximum Load Current   | 25 A rms                |
| Minimum Load Current   | 5 mA rms                |
| Transient Voltage  | 600 V pk                |
| Maximum off-state leakage current                                  | 1 mA rms                |
| 1 Second surge current   | 95 A                    |
| Maximum 1 cycle surge current                                      | 250/260 (min) 340 (typ) |
| Maximum on-state voltage drop                                      | 1.25V                   |
| Thermal resistance junction to case                                | 1.7 °C/W                |
| Maximum 1/2 Cycle I <sup>2</sup> t for fusing (A <sup>2</sup> sec) | 340/600                 |

|   |          |
|---|----------|
| Minimum heat sink for rated current @ 40 °C | 1.3 °C/W |
| Number of poles                             | 1        |

## INPUT SPECIFICATION

|                            |           |
|----------------------------|-----------|
| Control voltage            | 4-32V dc  |
| Maximum reverse voltage    | -32V dc   |
| Minimum turn-on voltage    | 3V dc     |
| Must turn-off voltage      | 2V dc     |
| Input current min          | 10 mA     |
| Input Current Max          | 14 mA     |
| Maximum turn-on time (ms)  | 1/2 cycle |
| Maximum turn-off time (ms) | 1/2 cycle |

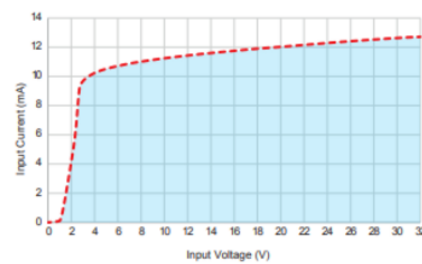
## GENERAL SPECIFICATION

|   |                |
|---|----------------|
| Dielectric strength input to output (50/60Hz) | 4000 V rms     |
| Ambient operating temperature                 | -40 ... +80°C  |
| Ambient storage temperature                   | -40 ... +100°C |
| Weight  | 80 g           |
| Height  | 59.4 mm        |
| Width   | 44.5 mm        |
| Depth   | 29.1 mm        |
| Housing material                              | UL94 V-0       |
| Material base                                 | Aluminium      |
| LED input status indicator                    | Green          |
| Approvals                                     | CE, cRUus, VDE |

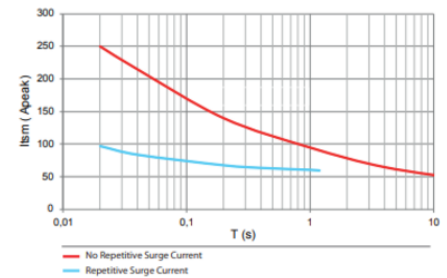
GN+ Series DC Triac - 25 A



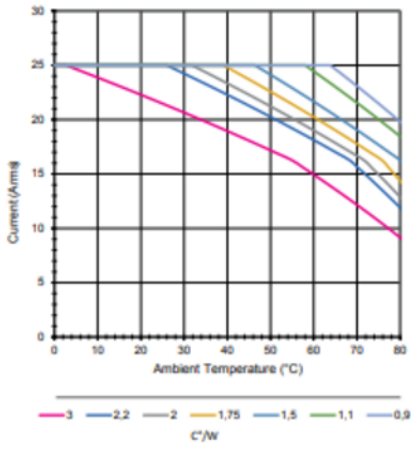
Input current vs Input Voltage  
Standard Regulated DC inputs



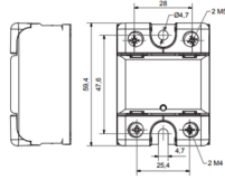
GN+ - 25 A



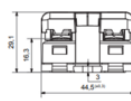
# GN+ - 25 A



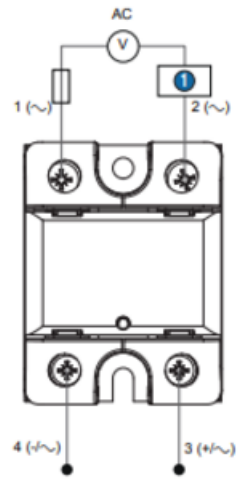
GN+ front view



GN+ side view



# GN+



Protection in the mains (fuses/circuit breaker)

**1** Load