

## CROUZET - GN SERIES SOLID STATE RELAY

Panel Mount - AC Output Single Phase

84137181N  
SSR 125A 48-660 VAC Out 20-265 VAC In ZC

- Zero cross or instantaneous switching
- Output current: 10 - 125 Amps
- Built-in over voltage protection (zero cross only)
- LED input status indicator



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### OVERVIEW

|                 |                      |
|-----------------|----------------------|
| Output current  | 125 A                |
| Output voltage  | 48-660V ac           |
| Control voltage | 20-265V ac           |
| Mounting        | Panel mount          |
| Type of control | Zero voltage turn on |

#### OUTPUT SPECIFICATION

|                                     |                         |
|-------------------------------------|-------------------------|
| Output voltage                      | 48-660V ac              |
| Maximum Load Current                | 125 A rms               |
| Minimum Load Current                | 5 mA rms                |
| Transient Voltage                   | 1200 V pk               |
| Maximum off-state leakage current   | 1 mA rms                |
| 1 Second surge current              | 613 A                   |
| Maximum 1 cycle surge current       | 2000/_ (min) 2100 (typ) |
| Maximum on-state voltage drop       | 1.15V                   |
| Thermal resistance junction to case | 0.25 °C/W               |

|                                                                    |             |
|--------------------------------------------------------------------|-------------|
| Maximum 1/2 Cycle I <sup>2</sup> t for fusing (A <sup>2</sup> sec) | 20000/22000 |
| Minimum heat sink for rated current @ 40 °C                        | 0.29 °C/W   |
| Number of poles                                                    | 1           |

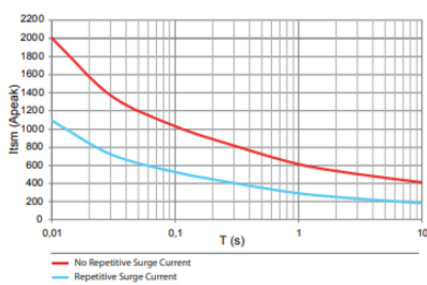
### INPUT SPECIFICATION

|                            |                   |
|----------------------------|-------------------|
| Control voltage            | 20-265V ac        |
| Minimum turn-on voltage    | 18V ac/dc         |
| Must turn-off voltage      | 5V ac/dc          |
| Input current min          | 5 mA AC / 4 mA DC |
| Input Current Max          | 10 mA             |
| Maximum turn-on time (ms)  | 1/2 cycle         |
| Maximum turn-off time (ms) | 1/2 cycle         |

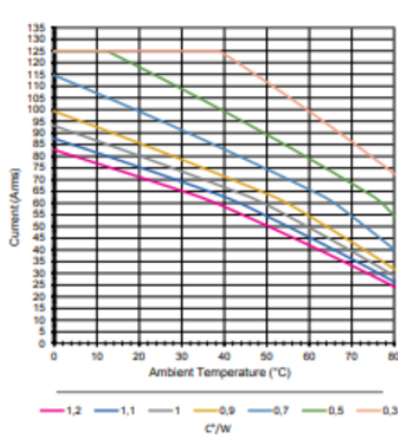
### GENERAL SPECIFICATION

|                                               |                |
|-----------------------------------------------|----------------|
| 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 |

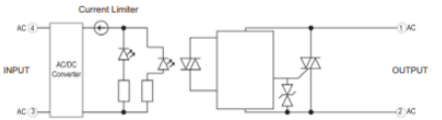
GN - 125 A



GN - 125 A

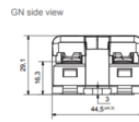
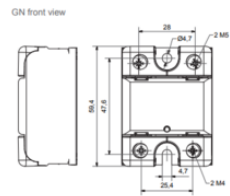
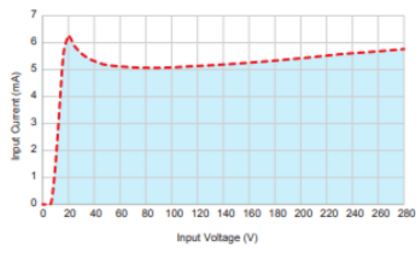


GN Series 20-265 V~ control

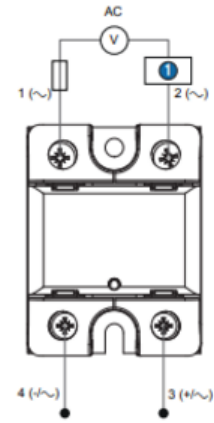


### Input current vs Input Voltage

#### Standard Regulated AC inputs



GN



For the random (instantaneous) models, external overvoltage protection is recommended: TVS Diode

① *Load*