

CROUZET - GN SERIES SOLID STATE RELAY

Panel Mount - AC Output Single Phase

84137140N
SSR 100A 48-660 VAC Out 4-32 VDC 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	100 A
Output voltage	48-660V ac
Control voltage	4-32V dc
Mounting	Panel mount
Type of control	Zero voltage turn on

OUTPUT SPECIFICATION

Output voltage	48-660V ac
Maximum Load Current	100 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	347 A
Maximum 1 cycle surge current	1100/_ (min) 1200 (typ)
Maximum on-state voltage drop	1.45V
Thermal resistance junction to case	3 °C/W
Maximum 1/2 Cycle I ² t for fusing (A ² sec)	6000/7200

Minimum heat sink for rated current @ 40 °C	23 °C/W
Number of poles	1

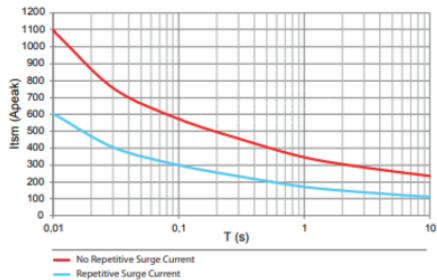
INPUT SPECIFICATION

Control voltage	4-32V dc
Maximum reverse voltage	-32V dc
Minimum turn-on voltage	3V dc
Must turn-off voltage	1V 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

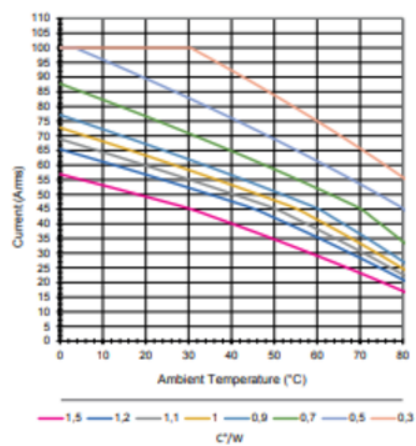
GENERAL SPECIFICATION

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	594 mm
Width	445 mm
Depth	291 mm
Housing material	UL94 V-0
Material base	Aluminium
LED input status indicator	Green
Approvals	CE, cRUus, VDE

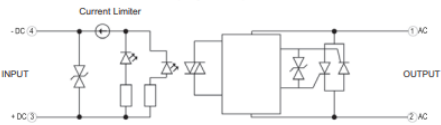
GN - 100 A



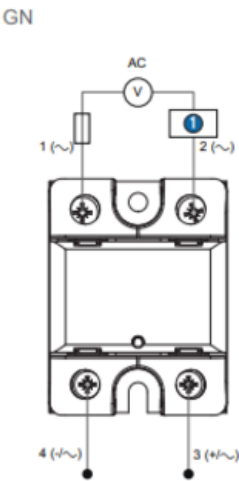
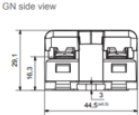
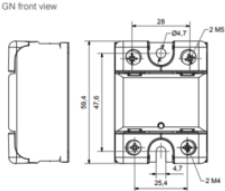
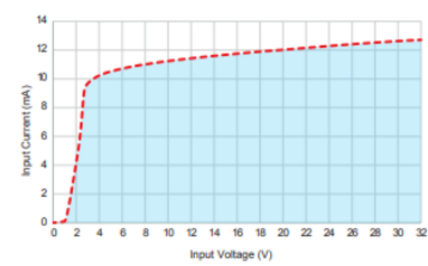
GN - 100 A



GN Series 4-32 V $\overline{\text{---}}$ control (Thyristors) - All out 660 V $\sim$



Input current vs Input Voltage
Standard Regulated DC inputs



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

① Load