

CROUZET - GN SERIES SOLID STATE RELAY

Panel Mount - AC Output Single Phase

84137121N
SSR 50A 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	50 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	50 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	230 A
Maximum 1 cycle surge current	700/_ (min) 750 (typ)
Maximum on-state voltage drop	1.38V
Thermal resistance junction to case	0.4 °C/W

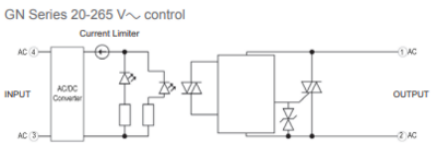
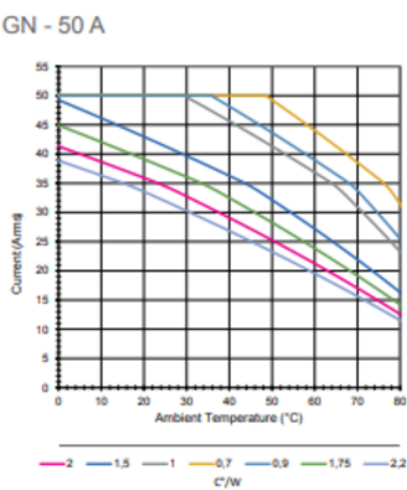
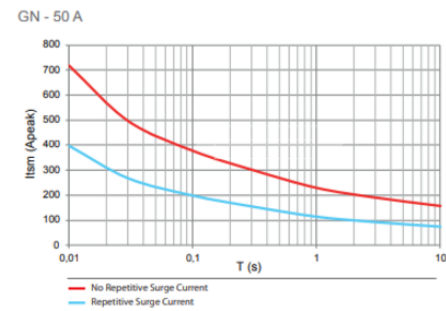
Maximum 1/2 Cycle I ² t for fusing (A ² sec)	2450/2800
Minimum heat sink for rated current @ 40 °C	0.84 °C/W
Number of poles	1

INPUT SPECIFICATION

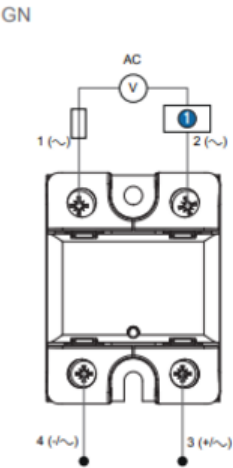
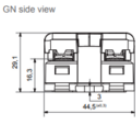
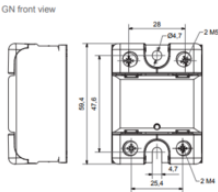
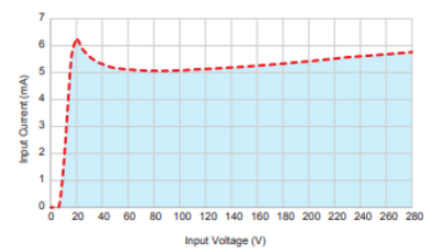
Control voltage	20-265V ac
Minimum turn-on voltage	18V ac/dc
Must turn-off voltage	5V ac/dc
Input current min	5 mA AC / 4 mA DC
Input Current Max	10 mA
Maximum turn-on time (ms)	1/2 cycle
Maximum turn-off time (ms)	1/2 cycle

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



Input current vs Input Voltage
Standard Regulated AC inputs



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

1 Load