

CROUZET - GN SERIES SOLID STATE RELAY

Panel Mount - AC Output Single Phase

84137012N
SSR 25A 24-280 VAC Out 18-36V AC/DC 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	25 A
Output voltage	24-280V ac
Control voltage	18-36V ac/dc
Mounting	Panel mount
Type of control	Zero voltage turn on

OUTPUT SPECIFICATION

Output voltage	24-280V 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	100 A
Maximum 1 cycle surge current	270/284 (min) 340 (typ)
Maximum on-state voltage drop	1.23V
Thermal resistance junction to case	1.7 °C/W

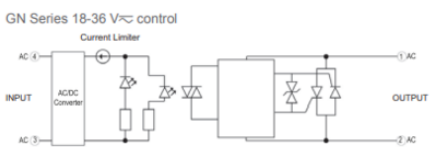
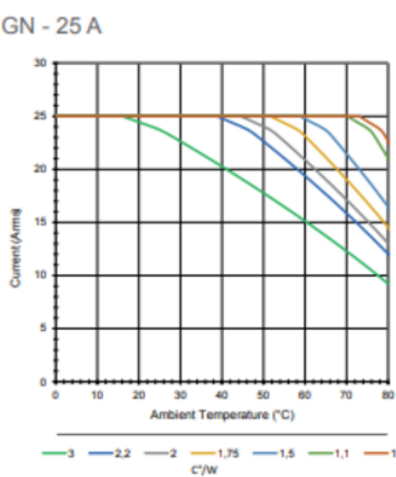
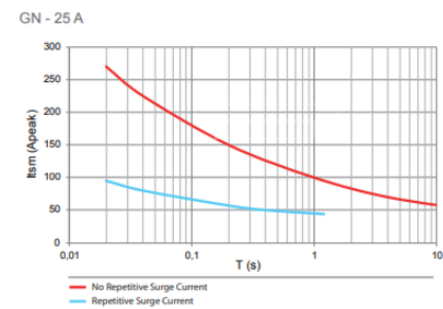
Maximum 1/2 Cycle I ² t for fusing (A ² sec)	487/600
Minimum heat sink for rated current @ 40 °C	1.3 °C/W
Number of poles	1

INPUT SPECIFICATION

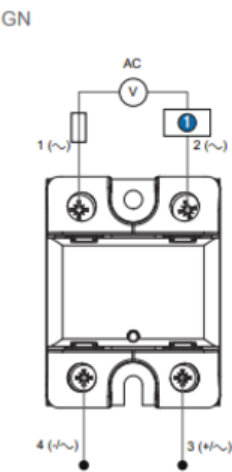
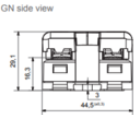
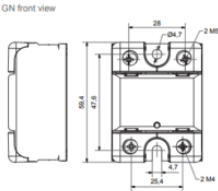
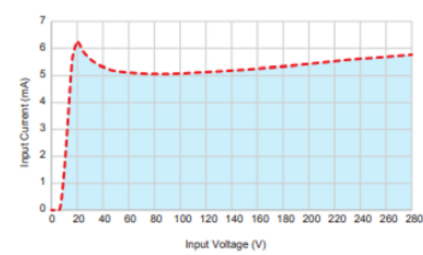
Control voltage	18-36V ac/dc
Minimum turn-on voltage	18V ac/dc
Must turn-off voltage	5V ac/dc
Input current min	5 mA AC / 4 mA DC
Input Current Max	10 mA
Maximum turn-on time (ms)	1/2 cycle
Maximum turn-off time (ms)	1/2 cycle

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/DC inputs



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

① Load