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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	0.3 °C/W

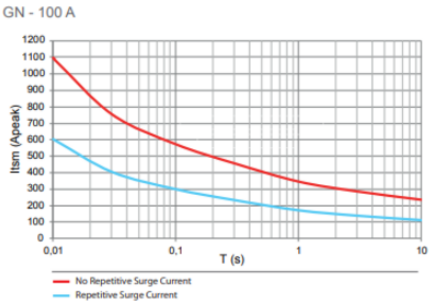
Maximum 1/2 Cycle I² t for fusing (A² sec)	6000/7200
Minimum heat sink for rated current @ 40 °C	0.23 °C/W
Number of poles	1

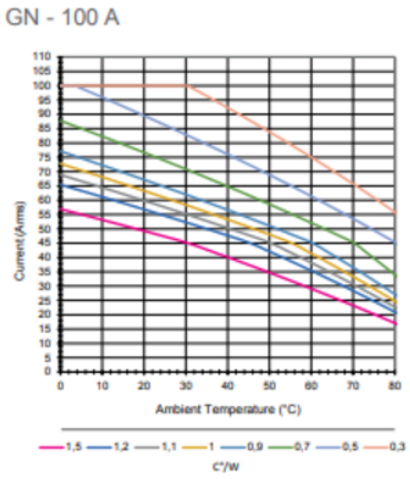
INPUT SPECIFICATION

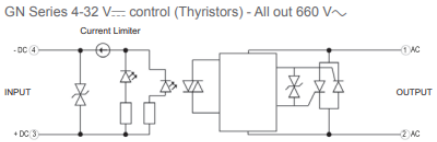
Control voltage	4-32V dc
Maximum reverse voltage	-32V dc
Minimum turn-on voltage	3V dc
Must turn-off voltage	1V dc
Input current min	10 mA
Input Current Max	14 mA
Maximum turn-on time (ms)	1/2 cycle
Maximum turn-off time (ms)	1/2 cycle

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	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

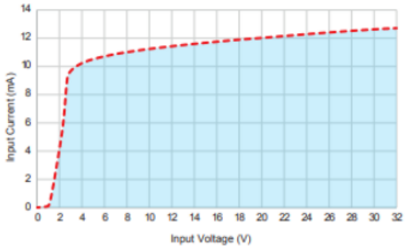




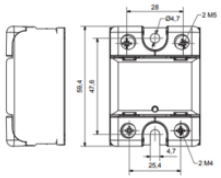


Input current vs Input Voltage

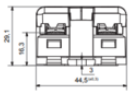
Standard Regulated DC inputs



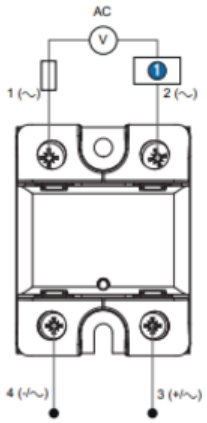
GN front view



GN side view



GN



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

1 *Load*