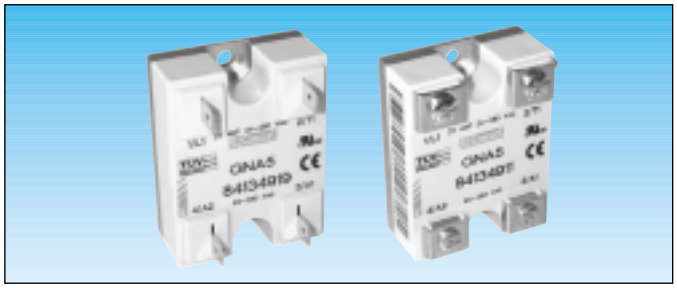
GN Triac low-cost single-phase solid state relays : GNA5 range

- **Intended for resistive loads**
- **Current ratings 10 and 25 A**
- **Output voltage 24 to 280 V ~**
- **"Zero voltage" switching**
- **Optimum thermal response**
- **Control input 3-32 V ⎓, 18 to 36 V ~, 90 to 280V ~**
- **Connection via screws or faston connectors**
- **UL/cUL, TUV approval and CE marking**



Output specifications

Range	**24-280 V ~**	
Non-rep. peak voltage (Vp)	500	
Maximum off-state leakage (at Vmax and T = 25° C) (mA)	4.75	
Peak voltage (Arms)	10	25
Minimum current (mArms)	100	100
Max. non-rep. surge for 1 s (T = 25° C (A))	30	75
Max. non-rep. surge for 1 cycle (T = 25° C (A))	100	250
I^2t (50 Hz-60Hz) (A^2s)	50 - 41	288 - 240
Voltage drop at Imax T = 25° C (V)	1.65	1.85
Static dV/dt (V/µs)	200	200
Rth junction/casing (°C/W)	3	2

Input specifications

	4-32 V ⎓	**18-36 V ~ ⎓**	**90-280 V ~ ⎓**
Drop-out voltage (V)	1	2	10
Max. current (mA)	14	8	8.5
Turn-on time (ms)	8.33 (60Hz) 10 (50Hz)	20	20
Turn-off time (ms)	8.33 (60Hz) 10 (50Hz)	30	30

Characteristics

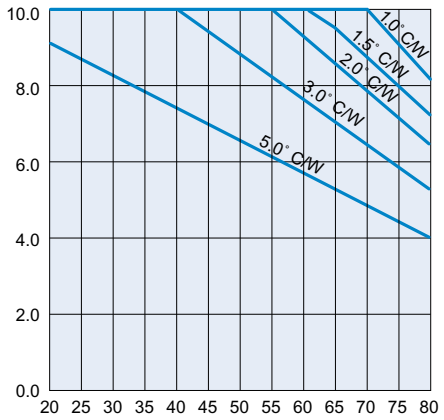
Operating temperature (°C)		-20 to +80
Storage temperature (°C)		-40 to +100
I/O insulation voltage (Vrms)		4000
Breakdown voltage (Vrms)		2500
Input/output capacitance (pF)		8
Frequency (Hz)		47 to 63
Material	Casing	UL 94 V
	Baseplate	Zamak
Weight (g)		97

Part numbers

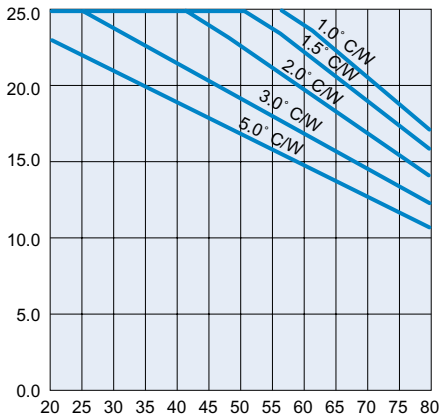
Rating	Output voltage	Input voltage	Screw	Faston
10 A	24-280 V ~	3-32 V ⎓	**84 134 900**	**84 134 907**
		18-36 V ~ ⎓	**84 134 902**	**84 134 908**
		90-280 V ~ ⎓	**84 134 901**	**84 134 909**
25 A	24-280 V ~	3-32 V ⎓	**84 134 910**	**84 134 917**
		18-36 V ~ ⎓	**84 134 912**	**84 134 918**
		90-280 V ~ ⎓	**84 134 911**	**84 134 919**

Thermal dissipation curves

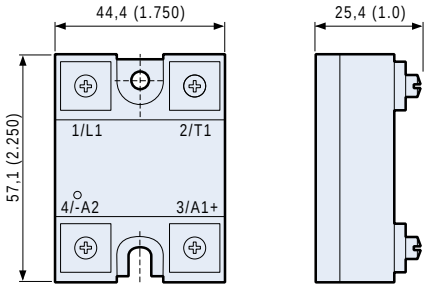
10 A



25 A



Dimensions



To order, specify:

Standard products

Standard products, non stocked

1 Part number

Example : GN Triac low-cost single-phase solid state relay - 84 134 900