

# GN thyristor output

- EMC compatible for industrial environments
- built-in transient protections
- Optimum thermal response
- Regulated control input
- Control status LED
- Available with or without protective cover



## Specifications

Current (A)	Output voltage	Input voltage	Instantaneous		Zero voltage	
			Without cover	With cover	Without cover	With cover
10	24-280 V AC	4-32 V DC	84 134 200	84 137 200	84 134 000	84 137 000
10	24-280 V AC	18-36 V AC/DC			84 134 002	84 137 002
10	24-280 V AC	90-280 V AC/DC			84 134 001	84 137 001
10	48-660 V AC	4-32 V DC	84 134 300	84 137 300	84 134 100	84 137 100
10	48-660 V AC	18-36 V AC/DC			84 134 102	84 137 102
10	48-660 V AC	90-280 V AC/DC			84 134 101	84 137 101
25	24-280 V AC	4-32 V DC	84 134 210	84 137 210	84 134 010	84 137 010
25	24-280 V AC	18-36 V AC/DC			84 134 012	84 137 012
25	24-280 V AC	90-280 V AC/DC			84 134 011	84 137 011
25	48-660 V AC	4-32 V DC	84 134 310	84 137 310	84 134 110	84 137 110
25	48-660 V AC	18-36 V AC/DC			84 134 112	84 137 112
25	48-660 V AC	90-280 V AC/DC			84 134 111	84 137 111
50	24-280 V AC	4-32 V DC	84 134 220	84 137 220	84 134 020	84 137 020
50	24-280 V AC	18-36 V AC/DC			84 134 022	84 137 022
50	24-280 V AC	90-280 V AC/DC			84 134 021	84 137 021
50	48-660 V AC	4-32 V DC	84 134 320	84 137 320	84 134 120	84 137 120
50	48-660 V AC	18-36 V AC/DC			84 134 122	84 137 122
50	48-660 V AC	90-280 V AC/DC			84 134 121	84 137 121
75	24-280 V AC	4-32 V DC	84 134 230	84 137 230	84 134 030	84 137 030
75	24-280 V AC	18-36 V AC/DC			84 134 032	84 137 032
75	24-280 V AC	90-280 V AC/DC			84 134 031	84 137 031
75	48-660 V AC	4-32 V DC	84 134 330	84 137 330	84 134 130	84 137 130
75	48-660 V AC	18-36 V AC/DC			84 134 132	84 137 132
75	48-660 V AC	90-280 V AC/DC			84 134 131	84 137 131
100	24-280 V AC	4-32 V DC	84 134 240	84 137 240	84 134 040	84 137 040
100	24-280 V AC	18-36 V AC/DC			84 134 042	84 137 042
100	24-280 V AC	90-280 V AC/DC			84 134 041	84 137 041
100	48-660 V AC	4-32 V DC	84 134 340	84 137 340	84 134 140	84 137 140
100	48-660 V AC	18-36 V AC/DC			84 134 142	84 137 142
100	48-660 V AC	90-280 V AC/DC			84 134 141	84 137 141
125	24-280 V AC	4-32 V DC	84 134 280	84 137 280	84 134 080	84 137 080
125	24-280 V AC	18-36 V AC/DC			84 134 082	84 137 082
125	24-280 V AC	90-280 V AC/DC			84 134 081	84 137 081
125	48-660 V AC	4-32 V DC	84 134 380	84 137 380	84 134 180	84 137 180
125	48-660 V AC	18-36 V AC/DC			84 134 182	84 137 182
125	48-660 V AC	90-280 V AC/DC			84 134 181	84 137 181

## Output specifications

Voltage range V (rms) max	24-280 VAC			48-660 VAC		
Non-rep. peak voltage (Vp)	600			1200		
Maximum off-state leakage at Vmax and T =25°C mA (rms)	2.5 - 4.25	2.5-4.25	2.5 - 4.25	2.75 - 4.75	2.75 - 4.75	2.75-4.75
Maximum current	10 A	25 A	50 A	75 A	100 A	125 A
Max. non-rep.1-cycle surge (T=25 °C) (A)	300	500	780	1000	1200	1700
Max. non-rep. 1 s surge (T=25 °C) (A)	80	150	235	300	360	510
I <sup>2</sup> t (50-60 Hz) (A <sup>2</sup> s)	450-375	1250-1041	3042-2535	5000-4166	7000-6000	14450-12041
Voltage drop at Imax (T=25°C) (V)	1.4	1.4	1.35	1.3	1.3	1.25
Thermal resistance junction to casing (°C/W)	0.4	0.4	0.25	0.155	0.155	0.15
Minimum current (mA)	100	100	100	100	100	100
Static dv/dt (V/μs)	500	500	500	500	500	500

## Input specifications

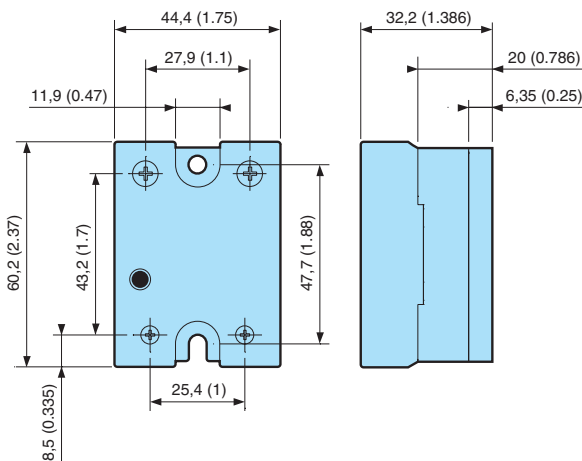
	4-32 VDC	18-36 VDC	90-280 VDC/AC
Turn-off voltage (V)	1	1	10
Max. controlled current (mA)	14	20	8.5
Turn-on time (ms) (zero voltage relay)	8.33 (60Hz) - 10 (50Hz)	20	20
Turn-on-time (ms) (instantaneous relay)	0.1	0.1	0.1
Response time on closing (ms)	8.33 (60Hz) - 10 (50Hz)	30	30

## General characteristics

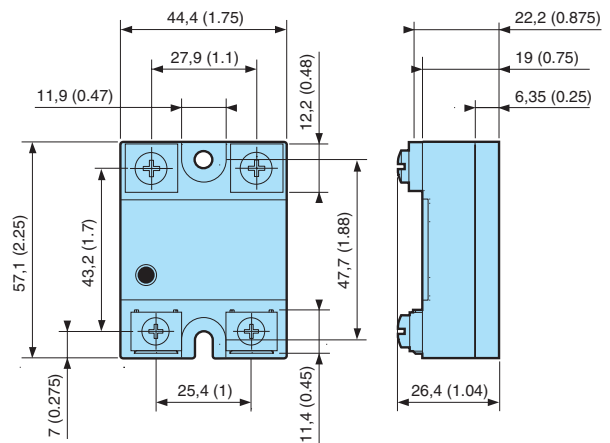
Operating temperature (°C)	-20 → +80
Storage temperature (°C)	-40 → 100
Input to output insulation voltage V (rms)	4000
Dielectric strength V (rms)	2500
Input/output capacitance (pF)	8
Frequency (Hz)	47 → 80
Material housing	polycarbonate UL-94V
Material baseplate	Zamak
Weight (g)	IP20 : 114 IP00 : 97
Safety standards	
Conformity to standards	CE compliant with LVD 73/23/EEC UL/cUL recognized per UL 508 TUV certificated per EN 60950
Immunity to electrostatic discharges acc. IEC/EN 61000-4-2	level 3
Immunity to electrostatic fields acc. ENV 50140/204 (IEC 1000-4-3)	level 3
Immunity to rapid transient bursts acc. to IEC 1000-4-4	level 3
Immunity to shock waves according to IEC/EN 61000-4-5	level 3
Immunity to radio frequency in common mode acc. to ENV (CEI 1000-4-6)	level 3
Conducted and radiated noise for industrial environment per CISPR 11	class A

## Dimensions

### With cover

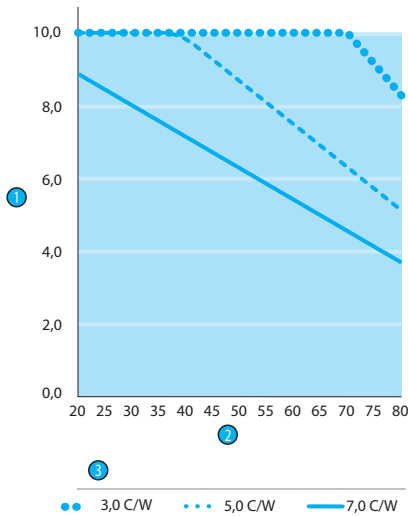


### Without cover



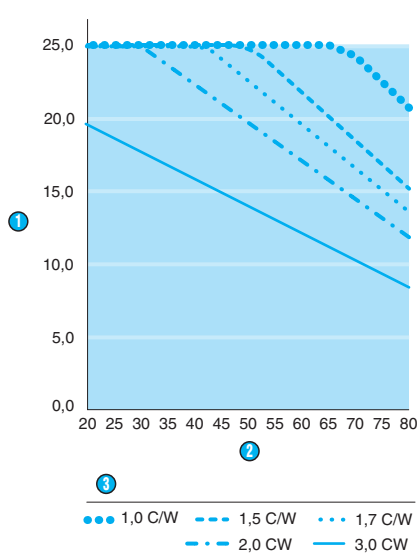
## Curves

GN 10 AMP SSR (1200 & 600 V)



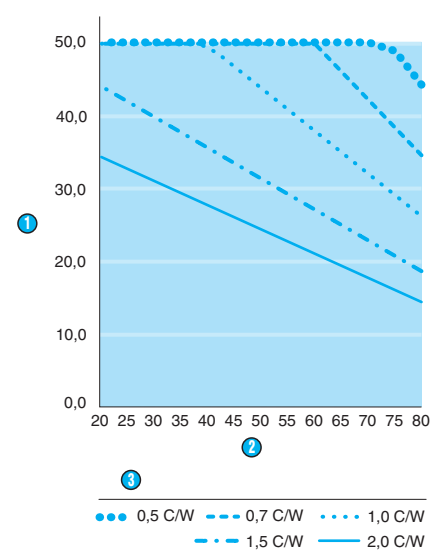
- ① Load current (A)
- ② Ambient temperature (°C)
- ③ Heatsink

GN 25 AMP SSR (1200 & 600 V)



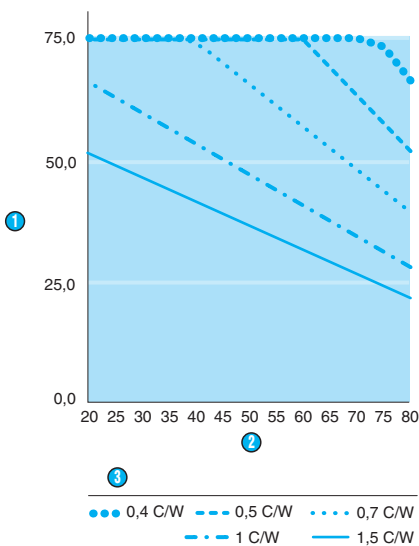
- ① Load current (A)
- ② Ambient temperature (°C)
- ③ Heatsink

GN 50 AMP SSR (1200 & 600 V)



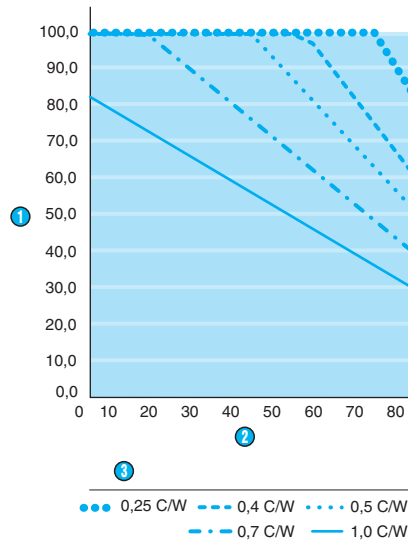
- ① Load current (A)
- ② Ambient temperature
- ③ Heatsink

GN 75 AMP SSR (1200 & 600 V)



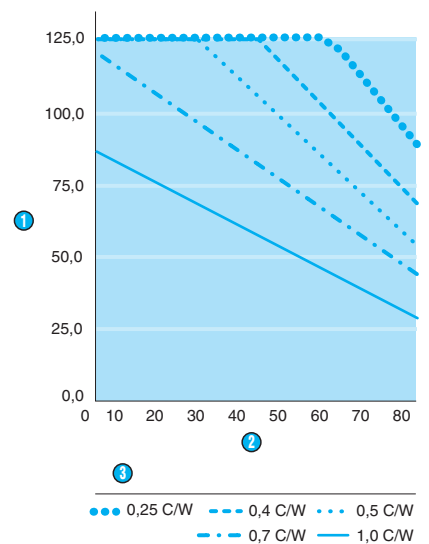
- ① Load current (A)
- ② Ambient temperature (°C)
- ③ Heatsink

GN 100 AMP SSR (1200 & 600 V)



- ① Load current (A)
- ② Ambient temperature (°C)
- ③ Heatsink

GN 125 AMP SSR (1200 & 600 V)



- ① Load current (A)
- ② Ambient temperature (°C)
- ③ Heatsink

## User information

Solid State relays are power switching devices that are subject to internal heating, therefore they must be used in conjunction with a heat sink.