

Extra-slim solid state relay - GZ range

- Low-cost solid state relay - Triac output
- Extra-slim casing
- Output current 12 and 20 A
- Output voltages 24-280 V ~ and 36-530 V ~
- Control input 4-15 V =
- Version with low off-state leakage (no RC circuit)
- Optical isolation 4 KV
- UL - cUL approval and CE marking

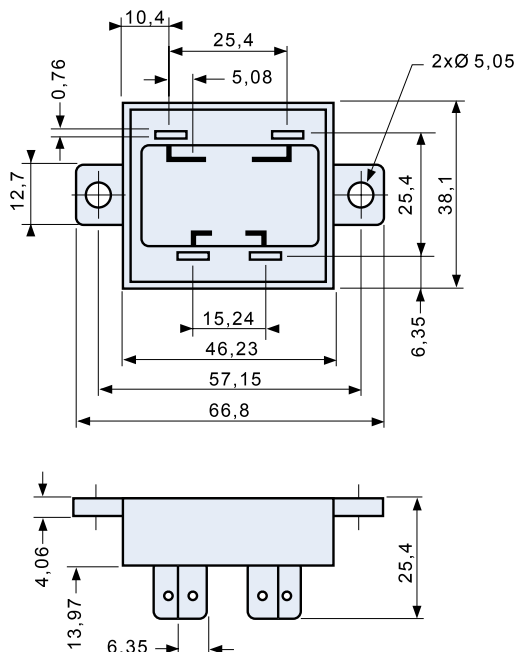


Output specifications (at 25 °C)		
Voltage range (Vrms max.)	24-280	36-530
Peak voltage - t = min (V)	600	800
Off-state leakage at Vmax and 25 °C		
Standard - with RC circuit (mA)	4.2	5.3
Low off-state leakage - no RC circuit (mA)	0.1	0.1
Static dv/dt		
Standard - with RC circuit (V/μs)	500	500
Low off-state leakage - no RC circuit (V/μs)	250	250
Peak voltage (A)	12	20
Minimum current (mArms)	100	100
Max. 1-cycle surge (Apeak)	120	200
Max. 1-second surge (Apeak)	36	60
On-state voltage drop at I max (Vpeak)	1.65	1.55
I ² t (t = 10 ms) (50 Hz 1/2 wave) (A ² s)	55	55
I ² t (t = 8.33 ms) (60 Hz 1/2 wave) (A ² s)	50	50
Supply frequency range (Hz)	47 to 63	
Rth junction / casing (°K/W)	3	2.2

Control input characteristics	
Input voltage (V)	4 to 15 =
Drop-out voltage (V)	1
Maximum current (mA)	32 ma@ 15 V =
36-530 V ~ version	
Zero voltage	63 ma@ 15 V =
On-delay response time	
Zero voltage	0.5 cycle max.
Instantaneous (ms)	0.1
Off-delay response time	0.5 cycle max.

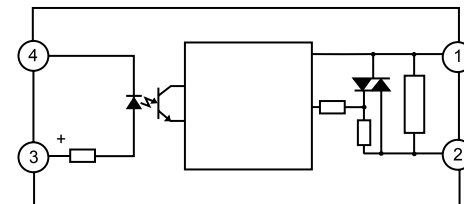
Characteristics	
Temperature Use limits	-20 to 80 °C
Stored	-40 to 100 °C
Input to output insulation voltage (Vrms)	4000
Breakdown voltage (Vrms)	2500
Input/output capacitance (pF)	8

Dimensions

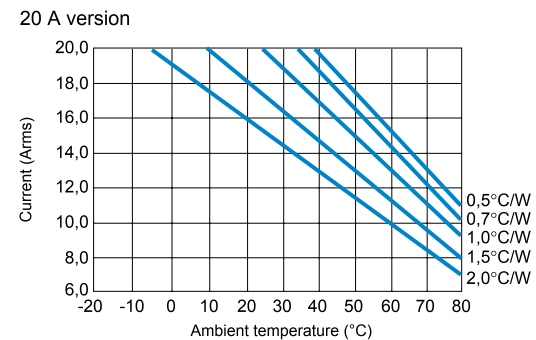
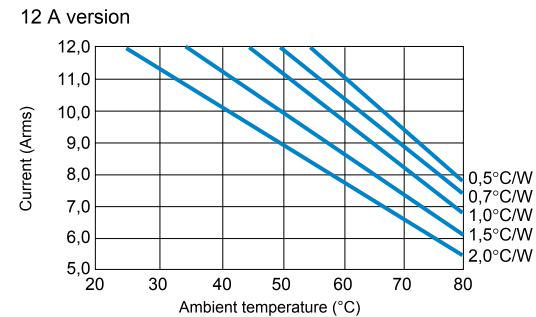


Part numbers				
Rating	Output voltage	Switching	RC circuit	
12 A	24 - 280 V ~	zero voltage	No	84 132 000
12 A	24 - 280 V ~	zero voltage	Yes	84 132 200
12 A	24 - 280 V ~	instantaneous	No	84 132 100
12 A	24 - 280 V ~	instantaneous	Yes	84 132 300
12 A	36 - 530 V ~	zero voltage	No	84 132 400
12 A	36 - 530 V ~	zero voltage	Yes	84 132 600
12 A	36 - 530 V ~	instantaneous	No	84 132 500
12 A	36 - 530 V ~	instantaneous	Yes	84 132 700
20 A	24 - 280 V ~	zero voltage	No	84 132 010
20 A	24 - 280 V ~	zero voltage	Yes	84 132 210
20 A	24 - 280 V ~	instantaneous	No	84 132 110
20 A	24 - 280 V ~	instantaneous	Yes	84 132 310
20 A	36 - 530 V ~	zero voltage	No	84 132 410
20 A	36 - 530 V ~	zero voltage	Yes	84 132 610
20 A	36 - 530 V ~	instantaneous	No	84 132 510
20 A	36 - 530 V ~	instantaneous	Yes	84 132 710

Connection



Curves for temperature-dependent derating



To order, specify:

Standard products

1 Part number

Standard products, non stocked

Example: Extra-slim solid state relay - GZ range - 84 132 000