



SMIC-G-Series Miniature Power Relay

Features

- \diamondsuit 35A contact switching capability
- \diamond Most suitable for solar photovoltaic power inverter, UPS.
- ♦ Contact clearance 2.0mm,2.3mm (IEC62109-2-2011and VDE0126).
- \diamondsuit Environmental protection products (RoHS compliant).

Safety Approval

- 🔷 UL/CUL FileNo: E179745-1-31
- ◇ TUV FileNo: R50540861
- ♦ CQC FileNo: CQC22002336810

 Contact Capacity 				
Туре	SMIC			
Rated load	35A250VAC			
Max.switching current	35A			
Max.switching voltage	277VAC			
Max.switching power	9695VA			
Characteristic Date				
Contact arrangement	Silver alloy			
Contact resistance	100m Ω Max.			
Operate time	20msec.Max.			
Release time	10msec.Max.			
Insulation resistance	1,000MΩ Min.(DC500V)			
Dialoctric strength	Between open contacts: 2,500VAC,50/60Hz 1min.			
Dielectric strength	Between coil and contact: 4,500VAC,50/60Hz 1min.			
Impulse withstand voltage	Between coil and contact:10KV(1.2/50us)			
Vibration resistance	Destructive	10~55Hz,1.5 mm DA		
Vibration resistance	Functional	10~55Hz, 1.5 mm DA		
Shock resistance	Destructive	100G Min.		
Shock resistance	Functiona	10G Min.		
Endurance(Operations)	Mechanical endurance(9,000ops/h)	100,000 cycles(at room temperature)		
Endulance(operations)	Electrical endurance(360ops/h)	30,000 cycles		
Ambient temperature	-40°C~+85°C(no condensation)	-40°C~ +85°C (no condensation)		
Unit weight	Approx 20g			

◆ Coil Data (at 20℃)

Nominal voltage (VDC)	Nominal operating current (mA)	Coil resistance ±10% (Ω)	Maximum continuous applied voltage	Pick-up voltage (max)	Drop-out voltage (min)	Nominal operating power
5	280	18			5% of rated voltage	1.4w
6	233.33	26				
9	155.56	58	110% of	75% of rated voltage		
12	116.67	103	voltage			
18	88.89	203				
24	58.33	410				

Expiain:Coil holding voltage is the coil excitation voltage maintained after 200ms, down to 50~100% of the rated coil voltage (23°) , down to 50~100% of the rated coil voltage (85°)

Safety Approval Ratings (Note: Please refer to the certificates for more detailed information of the ratings)

certification type		TUV	UL/CUL			
File No.	CQC22002336810	R50540861	E179745-1-31			
Approved ratings	35A125/250/277VAC	35A125/250/277VAC	35A125/250/277VAC			

(1) All values unspecified are at room temperature -

(2) Only typical loads are listed above. Other load specifications can be available upon request. The electrical endurance cycles of each load is different due to the different test conditions. If more details are required, please contact us.

(3) The electrical endurance test has been carried out on flux proofed version.

	No	omen	iclatu	ire			
SMIC	-S	-1	12	н	м	-XX	
							Special code: Nil-Standard, 1-Contact gap 2.3mm
							Contact material : Nil- AgSnO2
							Contact form: M-FormA
							Load current: H-35A
							Rated coilvoltage(VDC): 05,06,09,12,18,24
							Number ofpoles: 1-1Pole
							Protective construction : S-Flux proofed
							Basic series: SMIC

SMIC-H Series

Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit:mm)





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Wiring diagram(bottomview)



Mounting hole bitmap(bottom view)

Typical application

Most suitable for solar photovoltaic power inverter, UPS.

Disclaimer:

The specification is for reference only. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for the technical service. However, it is the user' s responsibility to determine which product should be used only.

varistor (ZNR) could absorb the coil surge of relay that is recommended.

(Example)



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