

Photo Voltaic Relay

SLE



- Miniature relay with high switching capability: 35A.
- Contact form: Form A, contact Gap > 1.8mm.
- 4000VAC dielectric strength high and 6000V surge voltage (1.2/50 μ S) between coil and contact.
- product in accordance to IEC60335-1 and PTI≥325.
- The appliance is able to meet VDE V 0126-1-1.
- 85°C compliant product is available.

Safety certificate

UL、cUL (File No.): E190598 VDE (File No.): 40036707

CQC (File No.):

CQC02001002109、CQC10002050461、CQC21002306488

9	DOSA SLE-S-	MYOU	
	SLE-3 35/	27TVAC	
	60	40A 277VAC	
	1	2107143	

Contact Data

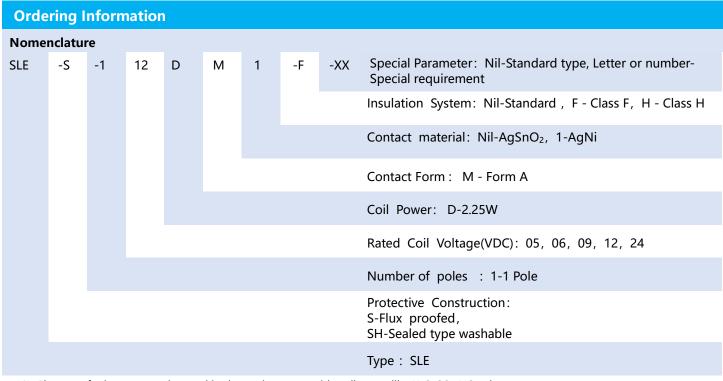
Туре	SLE-DM			
Rated load (Resistive load)	35A 277VAC			
Max. switching current	40A			
Max. switching voltage	277VAC			
Max. switching power	9,695VA			
Characteristics				
Contact material	Silver alloy			
Contact resistance	100mΩ Max. (1A 6VDC)			
Operate time (at rated coil voltage)	18ms Max. (No diode)			
Release time	15ms Max. (No diode)			
Insulation resistance	Min. 1,000MΩ (at 500VDC)			
Dielectric strength	Between open contacts:	2,500VAC, 50/60Hz for 1min.		
	Between coil and contact:	4,000VAC, 50/60Hz for 1min.		
Vibration resistance	Destructive	$10 \sim 55$ Hz, at double amplitude of 1.5mm.		
	Function	$10 \sim 55$ Hz, at double amplitude of 1.5mm.		
Shock resistance	Destructive	100G Min.		
	Function	10G Min.		
Endurance	Mechanical endurance(at 7,200 ops./h)	5,000,000 cycles(at room temperature)		
	Electrical endurance(at 360 ops./h)	30,000 cycles(the ventilation hole open) at room temperature		
Ambient temperature	-40°C ~ +65°C (No condensation)			

	For ambient temperature is 85°C, please contact Sanyou					
Weight	ht Approx.30.0g					
Coil Data (at 20°C)						
Nominal voltage (VDC)	Nominal operating current ±10%(mA)	Coil resistance $\pm 10\%(\Omega)$	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power
5	450	11.1				
6	375	16				
9	250	36	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	2.25W
12	187.5	64	nominal voltage	nominal voltage	nominal voltage	
24	93.75	256				

The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

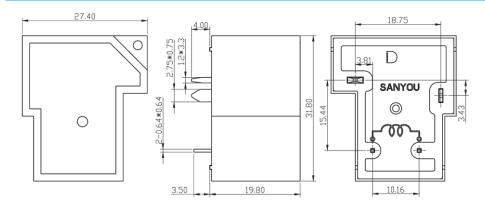
Safety Certificate Ratings (More details of approved ratings, please refer to the safety certificates)					
Certificates	cqc	UL/CUL	VDE		
File No	CQC02001002109 CQC10002050461 CQC21002306488	E190598	40036707		
Approved ratings	35A 125/250/277VAC	35A 125/250/277VAC Resistive	35A 125/250/277VAC Resistive 35A 125/250/277VAC COSΦ=0.8		

- (1) All values unspecified are at room temperature
- (2) Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.
- (3) For sealed type testing, please open the ventilation hole in the case before test.



- (1) Flux-proof relays can not be used in the environment with pollutants like H₂S, SO₂,NO₂, dust, etc.
- (2) Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.
- (3) Customized special suffix is available after being evaluated by Sanyou

Outline dimension, wiring diagram, PCB layout (Unit: mm)



In case of no tolerance shown on outline dimension

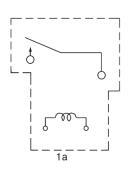
If dimension < 1 mm. tolerance: ±0.2mm

If dimension 1~5mm, tolerance: ± 0.3 mm If dimension > 5mm, tolerance: ± 0.4 mm

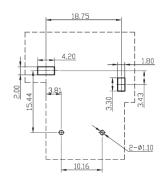
Note:

1. The dimension of pin is the size before tinning

2.Tolerance of PCB layout: ±0.1 mm.



Wiring Diagram (bottom view)

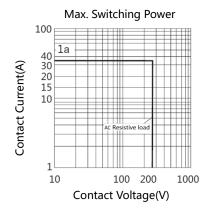


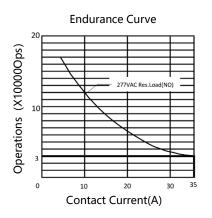
P.C.B Layout (bottom view)

Typical Applications

- Photovoltaic controller
- Charging pile
- •New energy automobile

Characteristic Curves





Note:

- (1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
- (2)The above curves are for reference only, and the final result is subject to the experiment.