

Features:

- Miniature relay with high switching capability: 60A.
 Contact form: Form A, contact Gap1.8mm or 2.3mm.
 4000VAC dielectric strength high and 6000V surge voltage (1.2/50 µS) between coil and contact.
- Compliant with IEC60335-1(GWT) & CTI250V

Typical applications:

- Photovoltaic controller.
- Charging pile.New energy automobile.





Approvals

UL, c-UL (File No.): E190598 TUV(File No.): R50143450

CQC (File No.): CQC02001002109, CQC10002050461, CQC21002306488

Contact Data	
Contact arrangement	1Form A(NO)
Rated voltage	277VAC
Max.switching voltage	315VAC
Rated current	60A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	18,900VA
Contact material	AgSn02/AgNi
Frequency of operation	360 ops./h
Operate/release time max.	18ms/15ms
Electrical endurance	20A-60A-20A@277VAC,30,000 cycles

Contact ratings			
Туре	Contact	Load	Cycles
IEC 61810			
SLE	A(NO)	Pick-up 20A, carrying 60A, break 20A	
		277VAC,85℃	3X10 ⁴
UL 60947-4	-1		
SLE	A(NO)	Pick-up 20A, carrying 60A, break 20A	
		277VAC,85℃	3X10 ⁴
GB/T 21711.1-2023			
SLE	A(NO)	Pick-up 20A, carrying 60A, break 20A	
		277VAC,85℃	3X10 ⁴
Mechanical endurance ≥3x10 ⁵ operations			

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Coil voltage range:	5 to 24VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class F/Class H	

Coil Data(continued)

Coil versions, DC coil				
Rated	Operate	Release	Coil	Rated coil
voltage	voltage	voltage	resistance	powers
VDC	VDC	VDC	Ω (1±10%)	mW
5	≤3.75	≥0.25	11.1	2250
6	≤4.5	≥0.30	16	2250
9	≤6.75	≥0.45	36	2250
12	≤9	≥0.60	64	2250
24	≤18	≥1.20	256	2250

All figures are given for coil without pre-energization, at ambient temperature 20°C

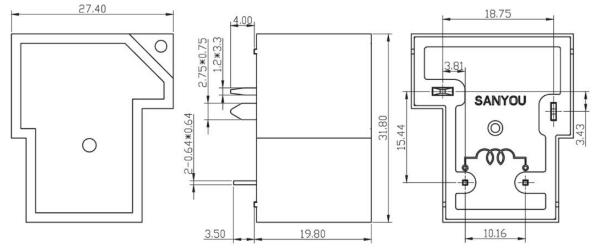
Insulation Data

Initial dielectric strength	
between open contacts	2500VAC
between contact and coil	4000VAC
Clearance/Creepage	
between contact and coil (Clearance)	≥3.5mm(actual)
between contact and coil (Creepage)	≥5.0mm(actual)
Material group of insulation parts	Illa
Tracking index of relay	PTI 250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH Ambient temperature -40°C to +85°C Category of environmental protection IEC 61810 RTII - flux proof RTIII - Sealed type washable Approx. 25.0g Weight Resistance to soldering heat THT (IEC 60068-2-20) 260°C/5s Packaging/unit tray

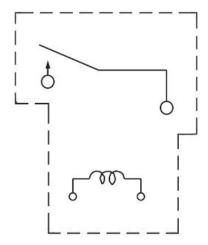
Dimensions



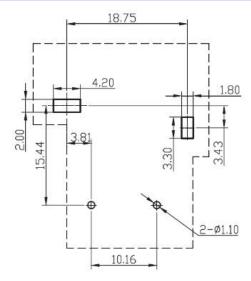
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Wiring Diagrams



PCB Layouts (bottom view)



In case of no tolerance shown on outline dimension

If dimension < 1 mm, tolerance: ±0.2mm If dimension 1~5mm, tolerance: ±0.3mm If dimension > 5mm, tolerance: ±0.4mm Notes:

1. The dimension of pin is the size before tinning

2.Tolerance of PCB layout: ±0.1 mm.



Product Code Structure

SLE Special Parameter: Nil - Standard type Letter or number - Special requirement Grade of load: Nil-Standard T-60A U-45A Insulation System: Nil-Standard F - Class F H - Class H Contact Material: Nil-AgSnO₂, 1-AgNi Contact Arrangement: M - Form A Coil Power: D - 2.25W Rated Coil Voltage(VDC): 05, 06, 09, 12, 24 Number of Poles: 1 - 1Pole **Protective Construction** S - Flux-proof SH - Sealed type washable Type: SLE

- (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.

Examples of Ordering Codes

SLE-S-112DM-T relay SLE, Flux-proof, rated DC voltage 12V, coil power 2.25W, 1NO, and contact material AgSnO₂, 60A

Disclaimer

The specification is for reference only. Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications. Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use. If there is any query, please contact Sanyou for technical services. However it is the user's responsibility to determine which product should be used.