

Features

- 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 uS) between coil and contact .
- Product in accordance to IEC60335-1 and PTI>=325.
- The appliance is able to meet VDE V 0126-1-1.
- EN61095:AC7a at 85°C.

Safety Approval

UL , C-UL File No. : E190598

VDE File No. : 40036707

CQC File No. : CQC02001002109

CCC File No. : 2017010304978127

CE File No. : GE170305005551-A1

Contact Capacity

| | |
|--|------------|
| Model | SLE-DM |
| Nominal switching capacity (res. load) | 35A 277VAC |
| Max. switching current | 35A |
| Max. switching voltage | 277VAC |
| Max. switching power | 9,695VA |

Charateristic Data

| | | |
|---|---------------------------------|--|
| Contact material | Silver alloy | |
| Initial contact resistance (at 6VDC 1A) | 50mΩ Max.(1A 6VDC) | |
| Operate time (at nominal volt.) | 18msec. Max. (no diode) | |
| Release time (at nominal volt.) | 15msec. Max. (no diode) | |
| Initial insulation resistance | 100MΩMin.(DC500V) | |
| Initial dielectric strength | Between open contacts : | AC2,500V , 50/60Hz 1min. |
| | Between coil and contact : | AC4,000V , 50/60Hz 1min. |
| Vibration resistance | Destructive | 10 ~ 55Hz at double amplitude of 1.5 mm |
| | Functional | 10 ~ 55Hz at double amplitude of 1.5 mm |
| Shock resistance | Destructive | 100G Min. |
| | Functional | 10G Min. |
| Endurance (operations) | Mechanical (at 7,200 ops./h) | 5,000,000 cycles at room temperature |
| | Electrical (at 360 ops./h) | 30,000 cycles(the ventilation hole open) at room temperature |
| Ambient temperature | -40°C ~ +85°C (no condensation) | |
| Unit weight | Approx. 30.0g | |

CoiDataI (at 20 °C)

| Nominal voltage (VDC) | Nominal operating current 10% (mA) | Coil resistance 10% (Ω) | Max. allowable voltage | Pick-up voltage (Max.) | Drop-out voltage (Min.) | Nominal operating power |
|-----------------------|-------------------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|
| 12 | 187.50 | 64 | 130 % of nominal voltage | 75 % of nominal voltage | 5 % of nominal voltage | 2.25W |
| 24 | 93.75 | 256 | | | | |

Note:The coil voltage can reduce to 40% ... 50% of the rated coil voltage after the relay's coil have energized with the rated coil voltage more than 50 ms.

Safety Approval Ratings

(Note: More detail of approval ratings, please refer to the safety certification)

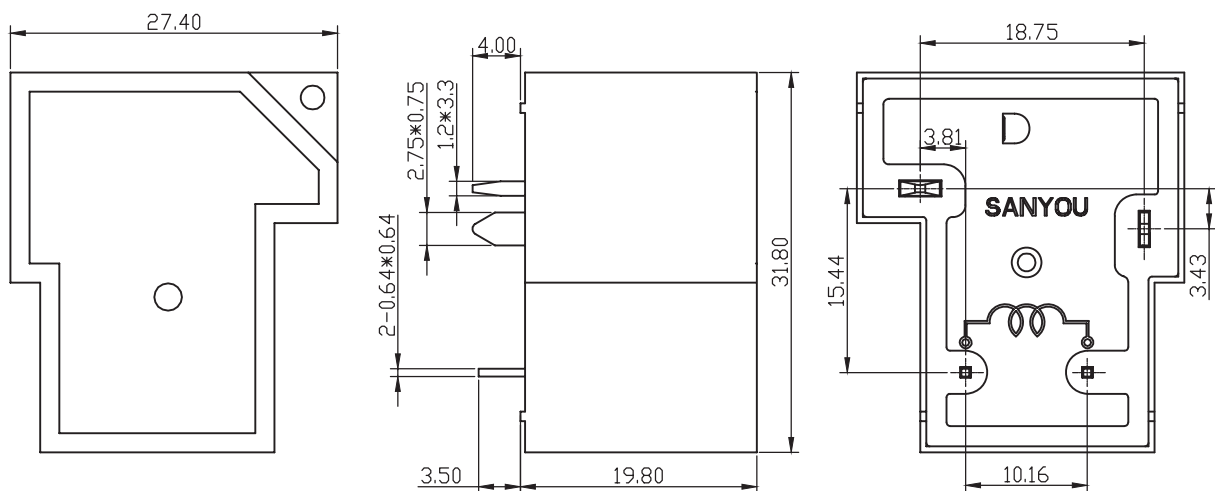
| Approval | UL/CUL | VDE | CQC | CCC | CE |
|------------------|------------------------------|--|-----------------------|----------------------------|----------------------------|
| File No. | E190598 | 40036707 | CQC02001002109 | 2017010304978127 | CE170305005551-A1 |
| Approved ratings | 35A 125/250/277VAC Resistive | 35A 125/250/277VAC Resistive AC-7a 35A 125/250/277VAC COSΦ=0.8 | 35A 125/250VAC/277VAC | AC-1, Ie : 40A, Ue: AC230V | AC-1, Ie : 40A, Ue: AC230V |

- (1) The above-mentioned unspecified temperature ratings, means that the ambient temperature is room temperature.
- (2) Only some typical ratings are listed above. Each rating's test condition is different, so the electrical endurance will be different. If more details are required, please contact us.
- (3) For sealed type testing, please open the ventilation hole of case before test.

Ordering Information

| Nomenclature | |
|-------------------------------|--|
| SLE - S - 1 12 D M 1 - F - XX | |
| | Special Parameter : Nil-Standard type, Letter or number-Special requirement |
| | Insulation System : Nil-Standard, B-Class B, F-Class F |
| | Contact Material : Nil-AgSnO ₂ , 1-AgNi |
| | Contact Form: M-Form A |
| | Coil Power : D-2.25W |
| | Coil Voltage (VDC) : 12, 24 |
| | Number of Poles : 1-1 Pole |
| | Protective Construction : S-Flux proofed SH-Sealed type washable |
| | Type Designation : SLE |

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



bottom view

Unless otherwise specified :

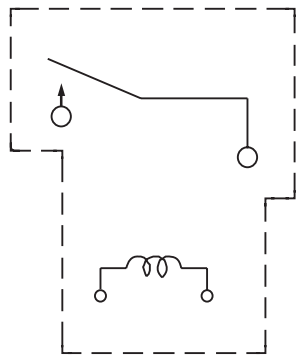
If dimension < 1mm, tolerance : 0.2 mm;

If dimension 1~5mm, tolerance : 0.3 mm;

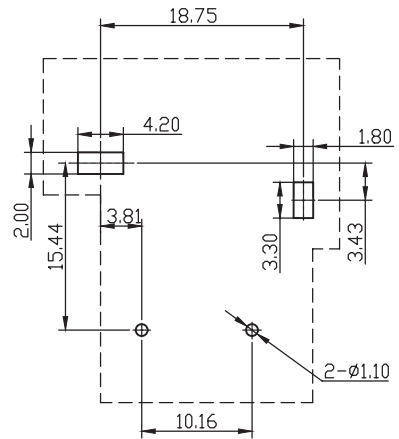
If dimension > 5mm, tolerance : 0.4 mm.

Note : 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of P.C.B. layout : 0.1 mm.



1a
Wiring Diagram (bottom view)

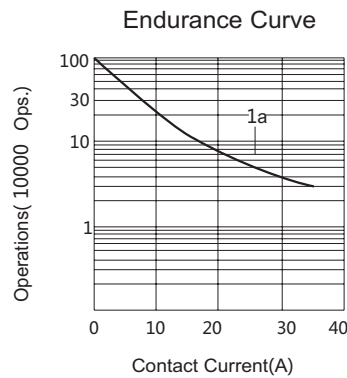
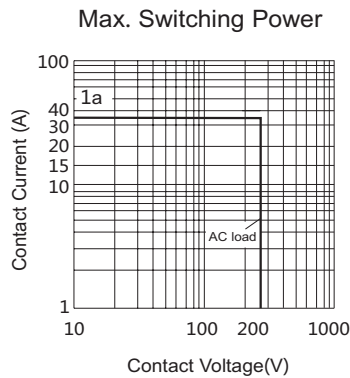


1a
P.C.B. Layout (bottom view)

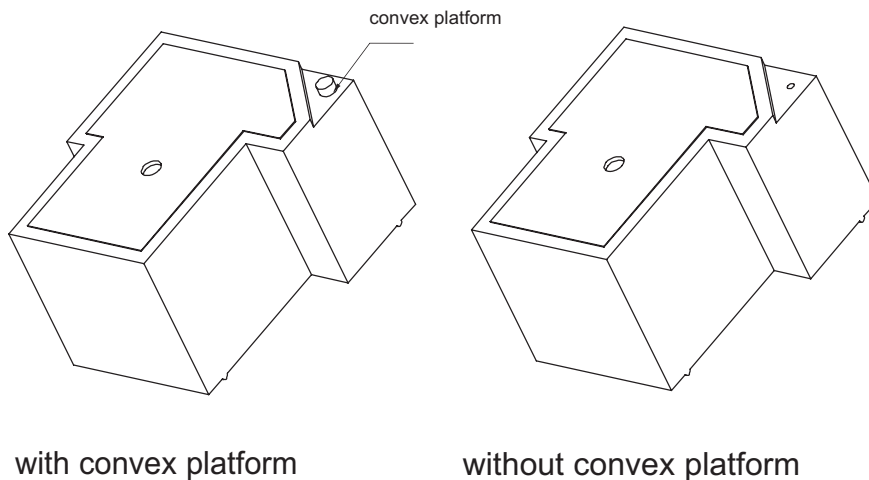
Typical Applications

- Photovoltaic controller , Charging pile, New energy automobile

Characteristic Curves



Note: If you choose the sealed type, before using, please remove the convex platform at the top of the case to ensure the normal performance of the relay after the completion of a PCB operations. they are as shown in the following diagram:



Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice.
We could not evaluate all the performance and all the parameters for every possible application. Thus the user should in a right position to choose the suitable product for their own application. For sealed relays after installation and cleaning, please open the vent hole on the case before use. 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.