

Latching Relay

LLR-T-1-120-1A-12D-P-E-P



LLR - T - 1 - 120 - 1A - 12D - P - E - P

Series Name:- LLR
 Contact Terminal Type:- T
 Single Phase:- 1
 Contact rating:- 120A
 Contact Form:- 1A
 Coil:- 12D:- 12VDC Double coil
 Coil Pins Polarity:- P:- Positive(Pin1+ve, Pin3-ve, Pin2+ve)
 Internal Code:- E
 Contact Terminal Shape:- P Parallel Shape

1) Characteristic

- 120A switching capability.
- Low coil consumption, ultra-low temperature rise.
- Outline size: 43.0x22.0x52.0mm.
- Customized terminals like shunt, braided Cu-wire etc.
- Low contact resistance.
- Strong anti-shock and anti-vibration capability.

2) Specification

| | | |
|-----------------------|-------------------------|-----------------------------|
| Insulation resistance | | 1000MΩ (500VDC) |
| Dielectric Strength | Between Coil & Contacts | 4000VAC 1min |
| | Between Open Contacts | 1800VAC 1min |
| Operate Time | | 20msec. Max. |
| Release Time | | 20msec. Max. |
| Shock resistance | Functional | 100m/S ² (10g) |
| | Destructive | 1000m/S ² (100g) |
| Vibration resistance | | 10~55Hz 1.5mm |
| Humidity | | 98%RH ,40°C |
| Ambient temperature | | -40~+70°C |
| Termination | | Fast connection |
| Unit weight | | 80g |
| Constrution | | Dust protected |

3) Contact Data

| | |
|----------------------|-------------------|
| Contact form | 1A/1B |
| Contact material | Ag Alloy |
| Contact resistance | Max.: 1.0 mΩ |
| Contact Rating | 120A 250VAC |
| Max. Switching Power | 25000VA/30000VA |
| Mechanical life | 5×10 ⁵ |
| Electrical life | 1×10 ⁴ |

4) Coil Data

| Coil power | | Single coil: 2.3W Double coil: 4.6W | |
|------------------------|--------------------------|-------------------------------------|------------------------|
| (VDC) Rated Voltage | (VDC) Pick-up voltage | (ms) Pulse Duration | (Ω) Coil Resistance |
| Single coil | | | |
| 9 | 6.75 | 100 | 35±10% |
| 12 | 9 | 100 | 63±10% |
| 24 | 18 | 100 | 250±10% |
| 48 | 36 | 100 | 1002±10% |
| Double coil | | | |
| 9 | 6.75 | 100 | 2x18±10% |
| 12 | 9 | 100 | 2x31±10% |
| 24 | 18 | 100 | 2x125±10% |
| 48 | 36 | 100 | 2x501±10% |

5) Typical Application

- Prepayment Energy Meter; AMR System, Compound Switch, Automatic Control System.

6) Dimensions(mm)/ Circuit Diagram

