

DWR10

Under development

■ Features

- 2-poles built-in type
- Contact rating AC240V 120A
- Energy-saving latching relay
- Dielectric strength: between opposite polarity contacts AC4000V
Lightning impulse withstand voltage 12kV
- Low contact resistance and low heat generation due to double contacts

■ Coil ratings

- 1 coil latching

| AC/DC | Voltage (V) | Item | Minimum operate voltage | Exciting time | Coil resistance (Ω) ±10% (at 20°C) | Power consumption (W) (at 20°C) | Maximum voltage |
|-------|-------------|------|-------------------------|---------------------------|---------------------------------------|------------------------------------|-----------------|
| | | DC | 5 | 70% max. of rated voltage | 70% max. of rated voltage | 50ms min. 100ms max. | 5.5 |
| 12 | 31.6 | | | | | | |
| 24 | 126 | | | | | | |

■ Ratings・Performance

| Item | | Performance | Notes | |
|------------------------------|---|--|---|----------------|
| Contact specification | Contact configuration | 2a | | |
| | Contact material | AgSnO ₂ type | | |
| | Rated current | AC120A | | |
| | Max. switching voltage | AC240V | | |
| | Over-current capability | | AC180A 20min | |
| | | | AC2500A 0.01s | Half sine wave |
| Overshoot capability | AC200V steady-state current 120A 10 times | Lamp load | | |
| Contact resistance | Initial 0.2mΩ max. | DC6V 1A | | |
| Switching capability Life | Electrical endurance | AC200V 120A PF0.8 2000 times | | |
| | Mechanical endurance | 100 000 times | | |
| Operating capability | Operate time | 30ms max. (excluding contact bounce time) | at coil rated voltage | |
| Temperature rise | Terminal temperature rise | AC132A 50°C max. | Terminal root of relay 38mm ² × 1.5m with wire connection | |
| Insulation capability | Insulation resistance | | DC500V 1000MΩ min. | |
| | Commercial frequency withstand voltage | Between open contacts | AC2000V 50/60Hz 1min | |
| | | Between opposite polarity contacts | AC4000V 50/60Hz 1min. | |
| Lightning impulse voltage | Between opposite polarity contacts | 12kV (1.2 × 50 μs) 10 times each for positive and negative polarity | | |
| Mechanical capability | Vibration resistance | | 16.7Hz double amplitude 4.0mm | |
| | Shock resistance | Malfunction | 300m/s ² (half-sine pulse 11ms) | |
| Destruction | | 1000m/s ² (half-sine pulse 0.2 to 6ms) | | |
| Usage environment | Usage and storage conditions | | Temperature: -40°C to +85°C ※ Prolonged high temperature and humidity are not allowed. | |
| | Others | | No influence of corrosive gases such as sulfide gas | |
| Mass | | | Approx. 260g | |

DEC is a professional manufacturer of relays

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