## DLR40

# Under development

### Features

- O Contact rating AC240V 120A
- O Dielectric strength: Between open contact AC2000V Between contact and coil AC4000V
- O Low contact resistance and low heat generation due to double contacts

### Coil ratings

Itam				Single coil		
AC/DC	Voltage (V)	Operate voltage	Exciting time	Coil resistance (Ω) ±10% (at 20℃)	Power consumption (W) (at 20°C)	Maximum voltage
DC	4.5	80% max. of rated voltage (Initial)	50ms min.	6.8	3	1.5 times the rated voltage
	5.0			8.3		
	12			48		
	24			192		

#### ■ Ratings • Performance

	Item		Performance	Notes
	Contact configuration		1a	
	Contact material		AgSnO2 type	
	Rated current		AC120A	
	Max. switching vol	tage	AC240V	
	Over-current capa	ability	AC180A 20min AC2500A 0.01s	
	Overshoot capability		AC200V steady-state current 120A 10 times	Lamp load
	Contact resistance		$0.2$ m $\Omega$ max,	DC6V 1A
	Electrical endurance		AC200V 120A $\cos  heta$ =0.8 2000 times	
	Mechanical endurance		100 000 times	
Operate time			30ms max. (excluding contact bounce time)	at coil rated voltage
	Temperature rise at connecting terminals		AC132A 50°C max.	Terminal root of relay 38mm <sup>2</sup> × 1.5m with wire connection
	Insulation resistance		DC500V 1000MΩ min.	
		Between open contact	AC2000V 50/60Hz 1min	
		Between contact and coil	AC4000V 50/60Hz 1min	
	Lightning impulse voltage	Between contact and coil	$12 \text{kV} (1.2 \times 50 \mu\text{s})$ 10 times each for positive and negative polarity	
	Vibration resistance		16.7Hz(double amplitude 4.8mm)	
	Shock	Malfunction	500m/s <sup>2</sup> (half-sine pulse 11ms)	
Саравшту	resistance	Destruction	1000m/s <sup>2</sup> (half-sine pulse 0.2 to 6ms)	
Usage environment	Usage and storage conditions		Temperature:-40°C to +70°C Humidity:5% to 85%RH ※ Prolonged high temperature and humidity are not allowed.	No freezing and condensing at low temperature
	Others		No influence of corrosive gases such as sulfide gas	
			Approx. — g	