

# DLR10

## Features

- Contact rating AC250V 90A
- Latching type
- Dielectric strength AC4000V, Surge withstand voltage 12 000V
- Low contact resistance and low heat generation due to double contacts

## Coil ratings

- 1 coil latching

AC/DC	Item Voltage (V)	Operate voltage	Exciting time	Coil resistance (Ω) ±10% (at 20°C)	Power consumption (W) (at 20°C)	Maximum voltage
DC	4.5	80% max. of rated voltage	50ms min.	10.1	2	1.5 times the rated voltage
	9.0			40.5		
	12			72		
	24			288		

## Ratings・Performance

Item		Performance	Notes
Contact specification	Contact configuration	1a	
	Contact material	AgSnO <sub>2</sub> type	
	Rated current	AC90A	
	Max. switching voltage	AC250V	
	Over-current capability	AC1200A 0.5s	
		AC2000A 0.01s	
Switching capability Life	Electrical endurance	0.5mΩ max.	DC6V 1A
		AC200V 30A 20 000 times	Resistive load
		AC200V 60A 5000 times	
		AC200V 90A 3000 times	
Mechanical endurance	100 000 times		
	20ms max. (excluding contact bounce time)		
Operate time			
Temperature rise	Temperature rise at connecting terminals		
Insulation capability	Insulation resistance		DC500V 1000MΩ min.
	Dielectric strength	Between open contact	AC2000V 50/60Hz 1min
		Between contact and coil	AC4000V 50/60Hz 1min
	Surge withstand voltage	Between contact and coil	12kV (1.2 × 50 μs) 10 times each for positive and negative polarity
Mechanical capability	Vibration resistance		16.7Hz (double amplitude 4.8mm)
	Shock resistance	Malfunction	500m/s <sup>2</sup> (half-sine pulse 11ms)
		Destruction	1000m/s <sup>2</sup> (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. 55g

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