

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	Voltage (V)	Item	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 ₂ type		
	Rated current	AC90A		
	Max. switching voltage	AC250V		
	Over-current capability		AC1200A 0.5s	
			AC2000A 0.01s	
Contact resistance	0.5mΩ max.	DC6V 1A		
Switching capability Life	Electrical endurance	AC200V 30A 20 000 times	Resistive load	
		AC200V 60A 5000 times		
		AC200V 90A 3000 times		
Mechanical endurance	100 000 times			
Operate time		20ms max. (excluding contact bounce time)		
Temperature rise	Temperature rise at connecting terminals	AC33A 15°C max.	8mm ² × 1.5m with wire connection	
		AC66A 25°C max.	14mm ² × 1.5m with wire connection	
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 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. 55g	

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