

# 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 <sub>2</sub> 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 <sup>2</sup> × 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 <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. 260g	

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