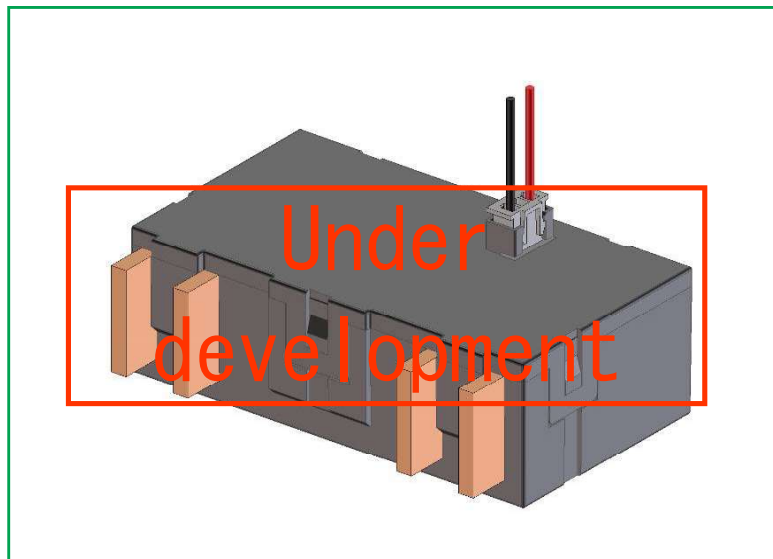


Power latching relay

DWR10



■ It is currently suitable for use in such applications.

- Electricity meters
- Other industrial equipment

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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	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	50ms min. 100ms max.	5.5	4.6	1.5 times the rated voltage
	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.	
		Between contacts and coil		
	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.	No freezing and condensing at low temperature
	Others		No influence of corrosive gases such as sulfide gas	
Mass			Approx. 260g	

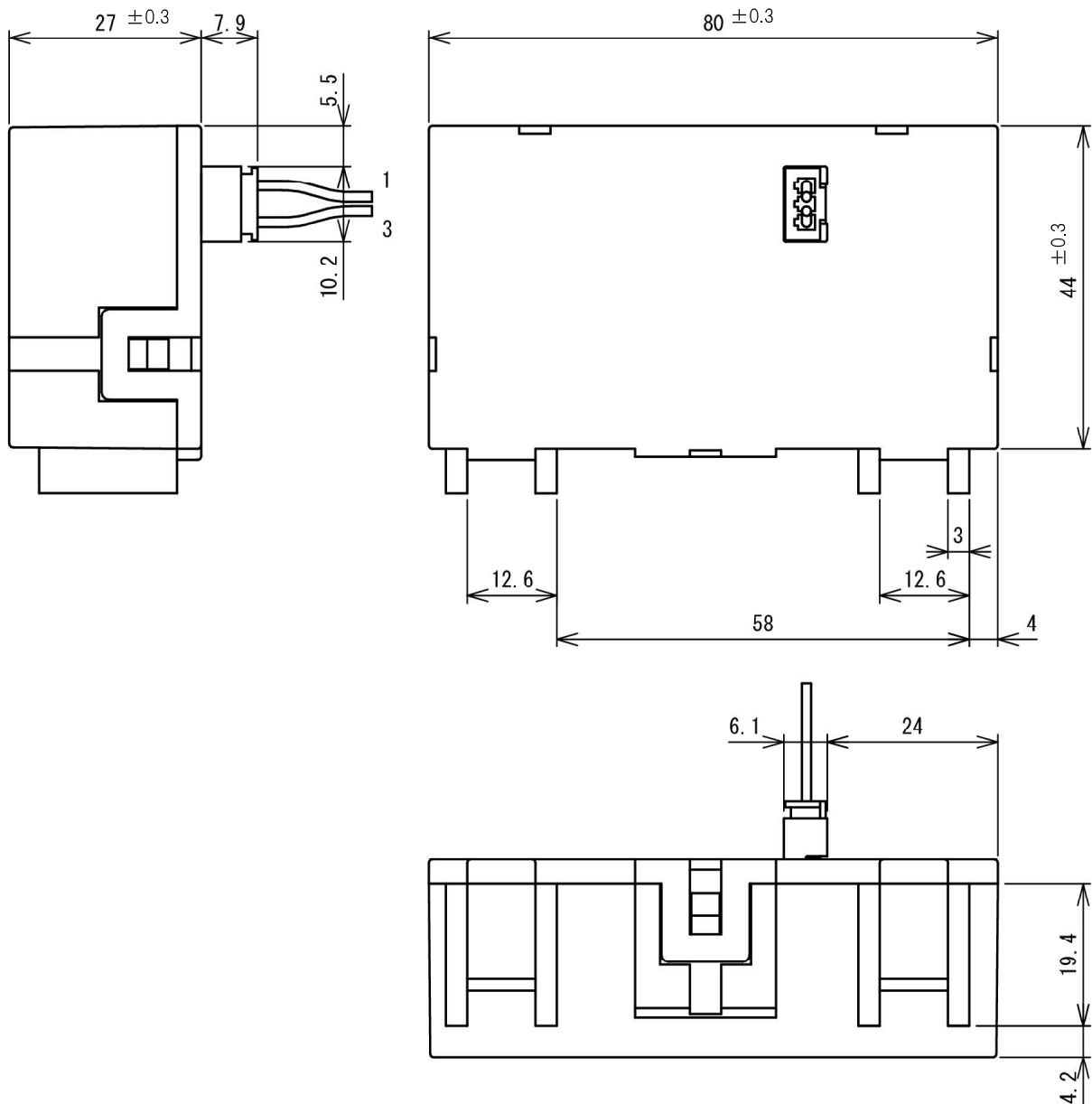
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DWR10

Under development

■ Dimensions



Relay closed: connectors 1 (+), 3 (—)

Relay open: connector 1 (—), 3 (+)

● Please understand that specifications may be changed without notice due to product improvement etc. ● Dimensions and specifications indicate only major points. Please contact our sales representatives for details.

DEC is a professional manufacturer of relays

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