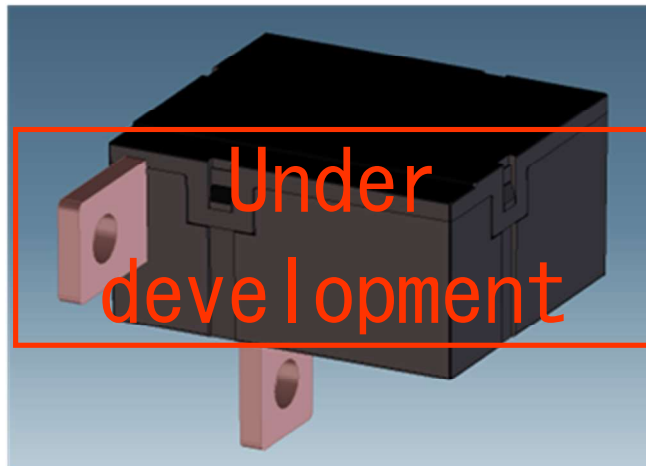


Power latching relay

**DLR40**



■ It is currently suitable for use in such applications.

- 
- Electricity meters
  - Other industrial equipment
- 

DEC is a professional manufacturer of relays

# DLR40

Under development

## ■ Features

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

## ■ Coil ratings

AC/DC	Voltage (V)	Operate voltage	Exciting time	Single coil		Maximum voltage
				Coil resistance (Ω) ±10% (at 20°C)	Power consumption (W) (at 20°C)	
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 specification	Contact configuration	1a	
	Contact material	AgSnO <sub>2</sub> type	
	Rated current	AC120A	
	Max. switching voltage	AC240V	
	Over-current capability	AC180A 20min AC2500A 0.01s	
	Overshoot capability	AC200V steady-state current 120A 10 times	Lamp load
	Contact resistance	0.2mΩ max.	DC6V 1A
Switching capability Life	Electrical endurance	AC200V 120A cosθ=0.8 2000 times	
	Mechanical endurance	100 000 times	
Operate time		30ms max. (excluding contact bounce time)	at coil rated voltage
Temperature rise	Temperature rise at connecting terminals	AC132A 50°C max.	Terminal root of relay 38mm <sup>2</sup> × 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
Lightning impulse 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 +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	
Mass		Approx. — g	

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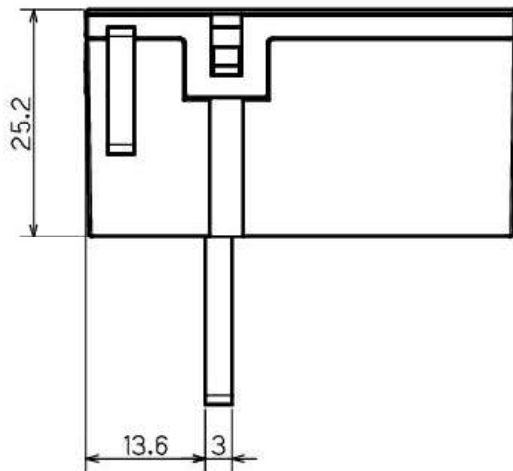
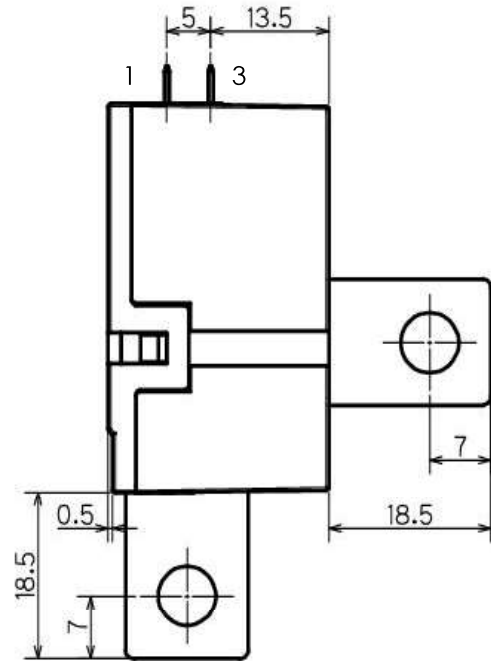
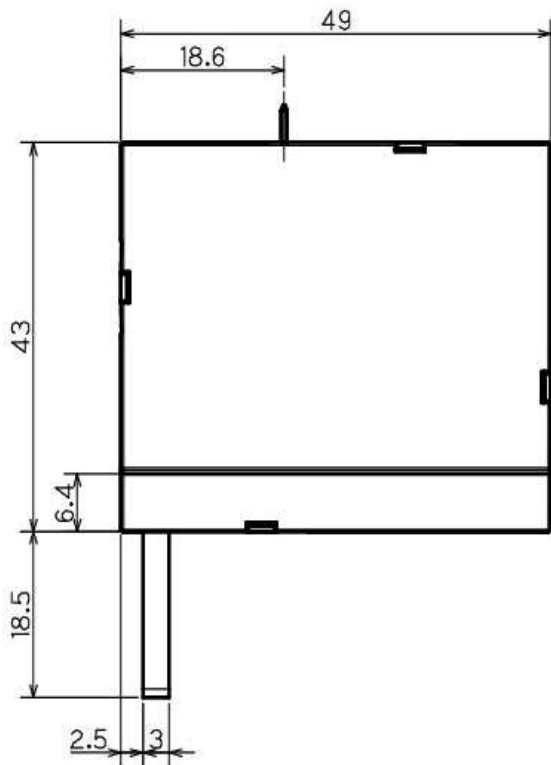
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# DLR40

Under development

## ■ Dimensions (standard terminals)



Set : 1 (+), 3 (-)  
Reset : 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

**DEC** Daiichi Electric Co., Ltd.

Head office 618-2, Miharada, Akagi-machi, Shibukawa-shi, Gunma, 379-1126, Japan

Phone +81-279-56-3151

Facsimile +81-279-56-3154

U R L <https://www.j-dec.co.jp> E-Mail: [sales@j-dec.co.jp](mailto:sales@j-dec.co.jp)

Agency

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