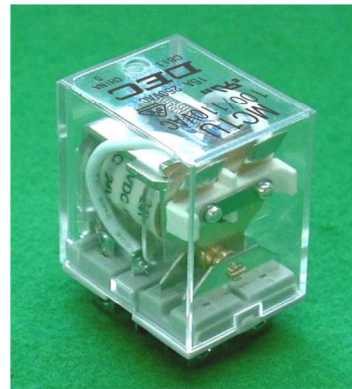


**MC**  
series

Power relay series pursuing reliability and safety



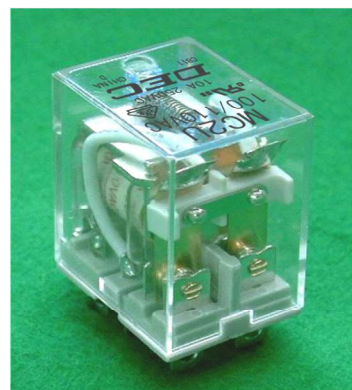
MC1U (flange-mounting type)



MC1U (plug-in type)



MC2U (flange-mounting type)



MC2U (plug-in type)

■ Currently it is used for such purposes

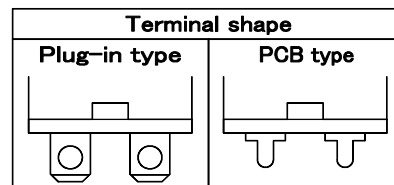
- Factory automation equipment, For control of automation equipment
- Control panel, Power supply equipment, Molding equipment, Machine tools, Welding machines, Machinery for agriculture
- Commercial equipment, Vending machines, Telecommunications equipment, Disaster prevention equipment, Copiers, Measuring instruments, Medical devices, Amusement devices
- Various household appliances

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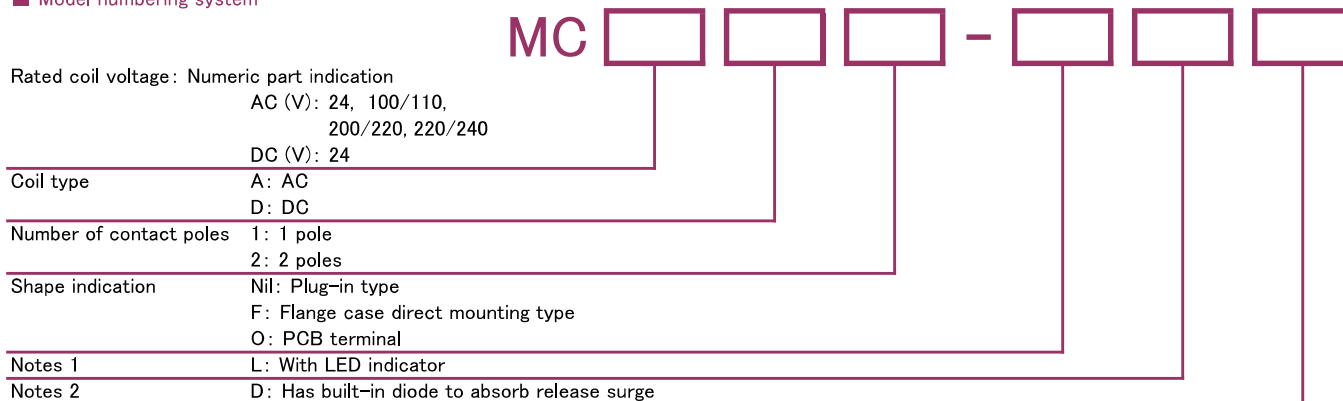
# MC series

## Features

- Boasting high reliability and achievements, it is a power relay that can control 1c 15A, 2c 10A.
- Terminal shape suitable for the application is standard (plug-in terminal and PCB terminal).  
The terminal conforms to tab terminal #187 series.
- Standard line up with flanged case.
- LED and diode built-in type are available upon request.
- Conforms to the various safety standards.



## Model numbering system



## Safety standards

	Contact rating	
	MC1U	MC2U
UL (C-UL)	15A 250V AC 15A 24V DC	10A 120V AC 10A 30V DC
VDE	15A 250V AC 15A 30V DC	10A 250V AC 10A 30V DC
CQC	15A 250V AC	10A 250V AC
Electrical Appliances and Materials Safety Act	Conformable	

## Coil ratings

AC/DC	Item Voltage	Rated current (mA)		Coil resistance (Ω)	Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption
		50Hz	60Hz					
AC	24	53.8	46	180	80% max.	30% min.	110%	0.9VA to 1.2VA
	100/110	11.7/12.9	10/11	3750				
	200/220	6.2/6.8	5.3/5.8	12 950				
	220/240	4.8/5.3	4.2/4.6	18 790				
DC	24	36.9		650	80% max.	10% min.	110%	0.9W

- Notes: 1. Rated current and coil resistance are values at coil temperature of 20°C, with tolerance of +15%/-20% for AC rated current. Tolerance is ±10% for DC coil resistance.
- 2. Operate voltage and release voltage are values at coil temperature of 20°C.
- 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.
- 4. “/” (for example, AC100/110) of the rated voltage indicates multiple ratings (AC100V 50Hz/60Hz, AC 110V 50Hz/60Hz).

# MC series

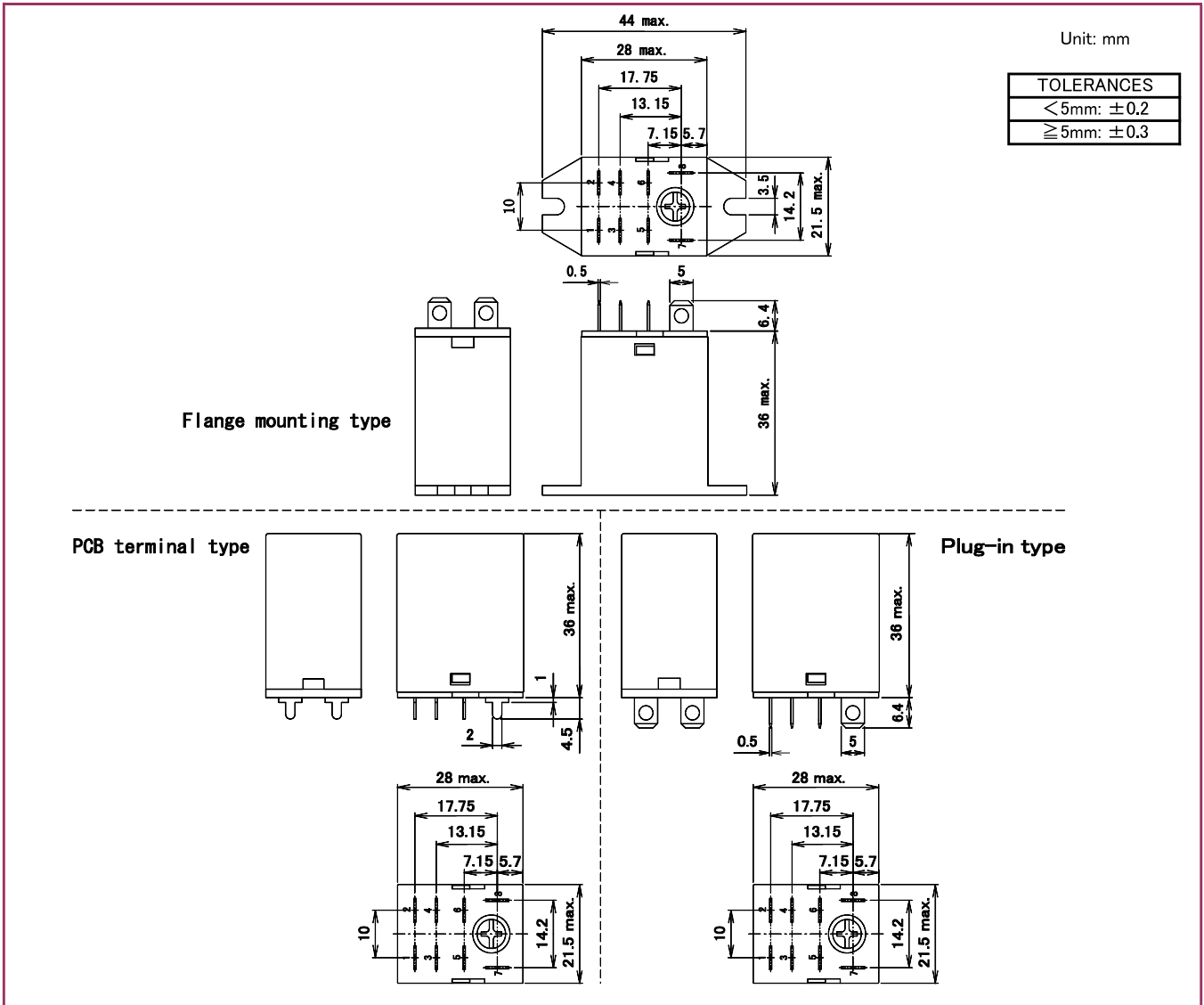
## ■ Ratings • Performance

Specifications	Item	Performance		
Contact specification	Contact configuration	1c	2c	
	Contact resistance	50mΩ max. (at DC6V 1A)		
	Contact material	Ag alloy		
Ratings	Rated load (resistive load)	AC110V 15A	AC110V 10A	
	Max. switching capacity (resistive load)	1650VA	1100VA	
	Max. switching voltage	250V		
	Max. switching current	15A	10A	
Electrical capability	Insulation resistance	100MΩ min. (at DC500V)		
	Dielectric strength	Between coil and contacts	AC2000V 1 min	
		Between open contacts	AC1000V 1 min	
		Between opposite polarity contacts	—	AC2000V 1 min
	Operate time (at rated voltage on, at 20°C)	25ms max. (excluding contact bounce time)		
Release time (at rated voltage off, at 20°C)	25ms max. (excluding contact bounce time)			
Mechanical capability	Vibration resistance	Malfunction	10 to 55 to 10Hz (double amplitude 1.0mm)	
		Destruction	10 to 55 to 10Hz (double amplitude 1.0mm)	
	Shock resistance	Malfunction	200m/s <sup>2</sup>	
		Destruction	1000m/s <sup>2</sup>	
Life	Mechanical endurance (at 18 000 times/h)	10 000 000 times min.		
	Electrical endurance (resistive load) (at 1800 times/h)	100 000 times min. (AC: 110V 15A)	100 000 times min. (AC: 110V 10A)	
		100 000 times min. (DC: 24V 15A)	100 000 times min. (DC: 24V 10A)	
Conditions for operation	Ambient temperature	-25°C to +55°C (no freezing and condensing at low temperature)		
	Ambient humidity	5% to 85%RH		
Mass		approx. 33g		

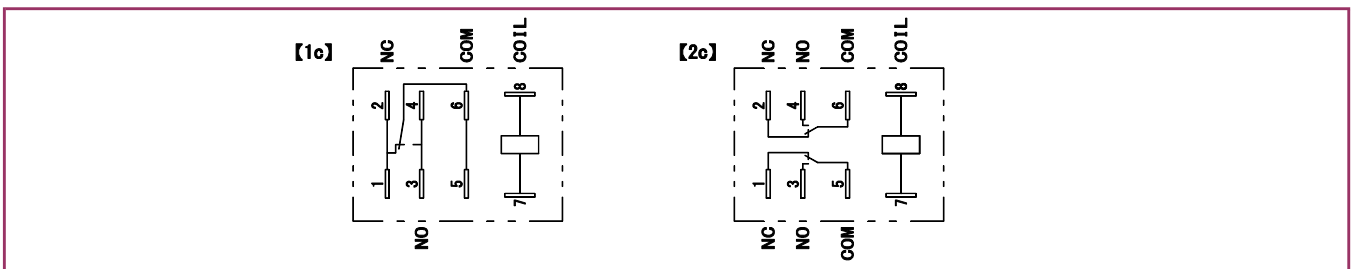
● Notes: The above is the initial value.

# MC series

## ■ Dimensions

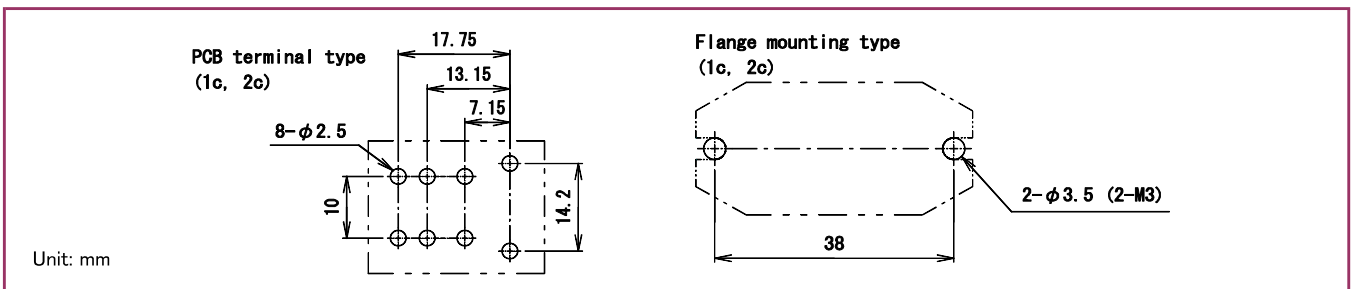


## ■ Schematics



## ■ PCB mounting holes (tolerances ±0.1)

## ■ Mounting holes (tolerances ±0.1)



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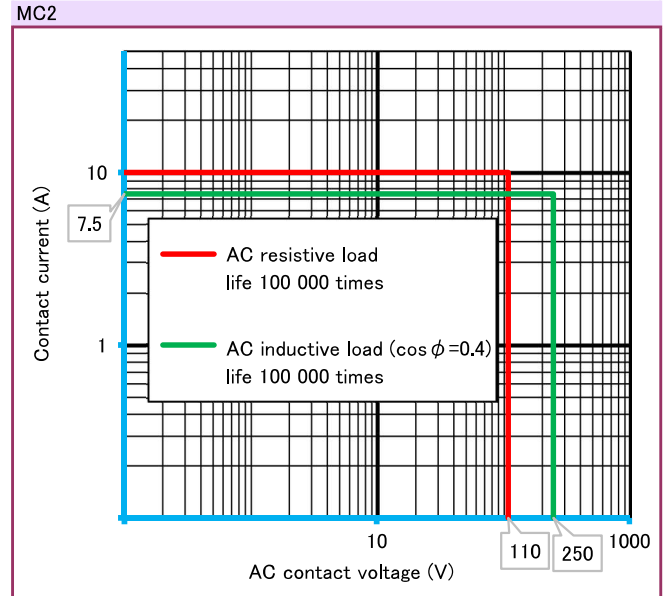
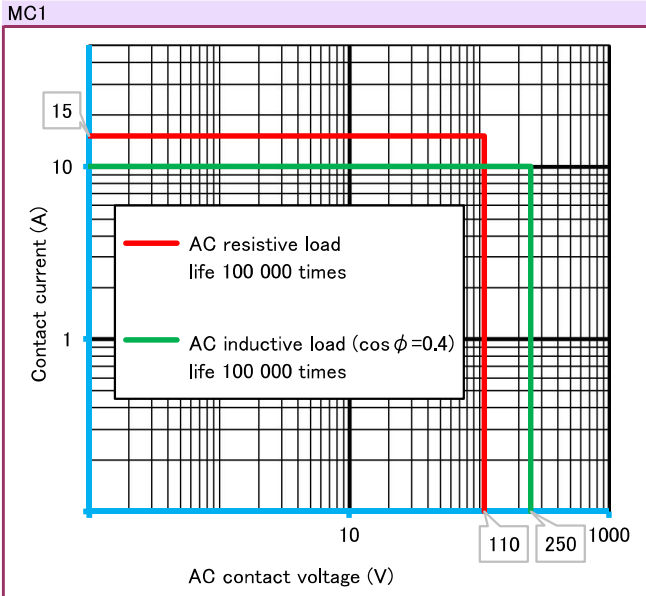
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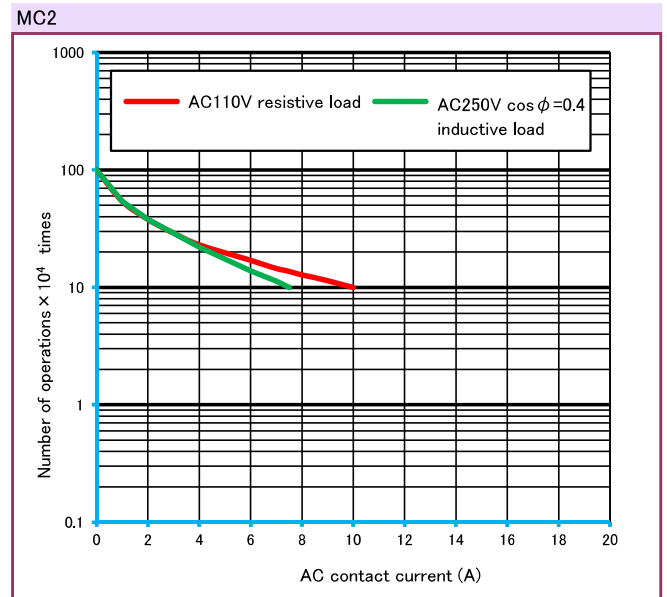
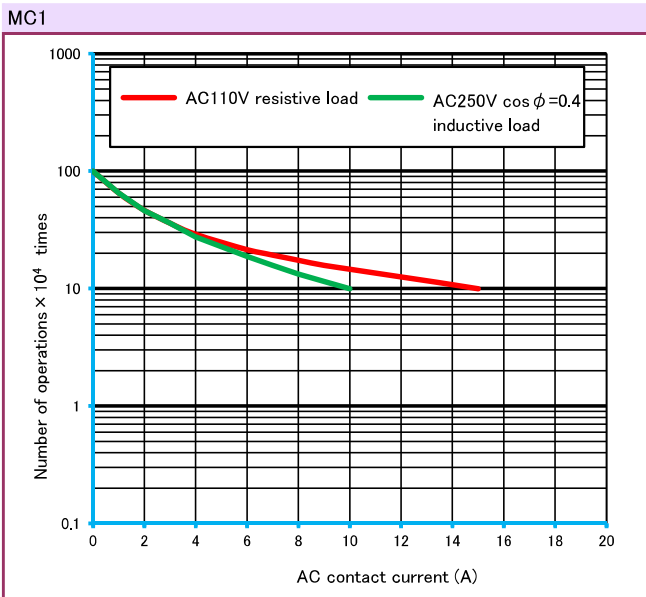
# MC series

## Reference data

### Maximum switching capacity



### Durability curve



● 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.

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

Head office 2-2, Noge 3-chome, Setagaya-ku, Tokyo 158-0092, Japan

Phone +81-3-3703-5421

Facsimile +81-3-3703-5426

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

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