

**HMS**  
series

Power relay series pursuing reliability and safety



■ Currently it is used for such purposes

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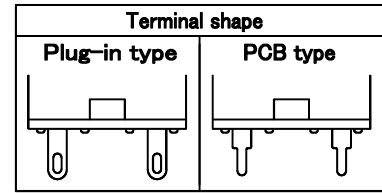
- Ideal for FA equipment, automation equipment
  - Control panel, Power supply equipment, Molding equipment, Machine tools, Welding machines, Machinery for agriculture
  - Commercial equipment, Vending machines, Telecommunications equipment, Disaster prevention equipment, Copiers, Measuring instruments, Medical devices, Amusement devices
  - Various household appliances
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DEC is a professional manufacturer of relays

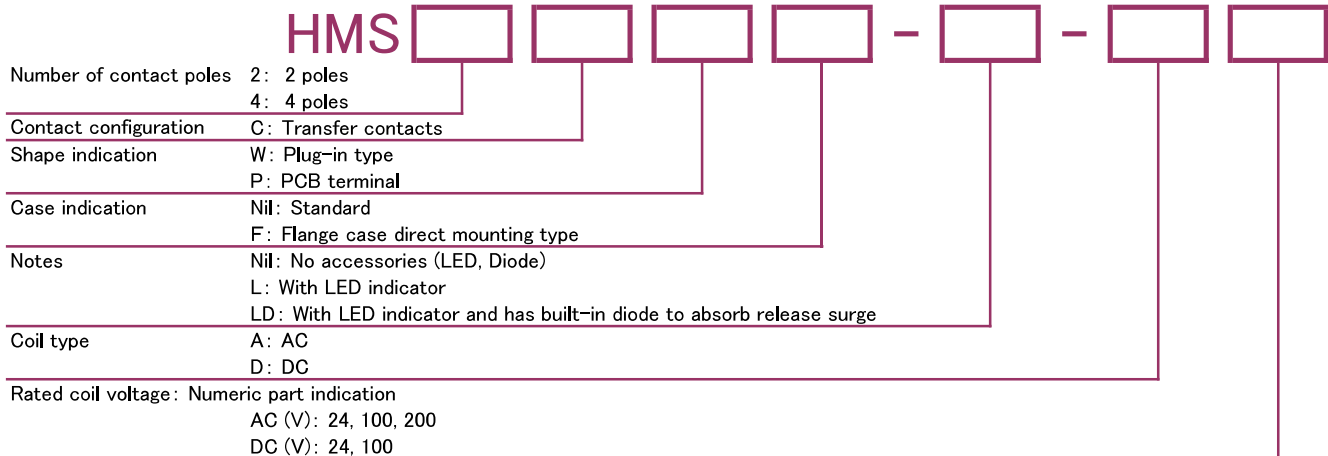
# HMS series

## Features

- General purpose miniature power relay boasting high reliability and achievement.
- Terminal shape suitable for the application is standard (plug-in terminal and PCB terminal).
- Small size 2c, 4c relay.
- LED and diode built-in type are available upon request.
- Standard line up with flanged case.



## Model numbering system



## Safety standards

	Contact rating			
	HMS2U		HMS4U	
UL (C-UL)	7A 250VAC	7A 30VDC	5A 250VAC	5A 30VDC
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	11.7	10	3750				
	200	6.2	5.3	12 950				
DC	24	36.9		650	80% max.	10% min.	110%	0.9W
	100	9.1		11 000				

- 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. Also, the rated current is the value of the type without LED indicator.
  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.

# HMS series

## ■ Ratings•Performance

Specifications	Item		Performance	
Contact specification	Contact configuration		2c	4c
	Contact resistance		100m $\Omega$ max. (at DC6V 1A)	
	Contact material		Ag alloy	
Ratings	Rated load (resistive load)		AC220V 5A, DC24V 5A	AC220V 3A, DC24V 3A
	Max. switching capacity (resistive load)		1100VA 120W	660VA 72W
	Max. switching voltage		AC250V, DC30V	
	Max. switching current		5A	3A
Electrical capability	Insulation resistance		100M $\Omega$ 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)		20ms max. (excluding contact bounce time)	
Release time (at rated voltage off, at 20°C)		20ms 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	100m/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: 220V 5A)	100 000 times min. (AC: 220V 3A)
Conditions for operation	Ambient temperature		-55°C to +60°C (no freezing and condensing at low temperature)	
	Ambient humidity		5% to 85%RH	
Mass			approx. 35g	

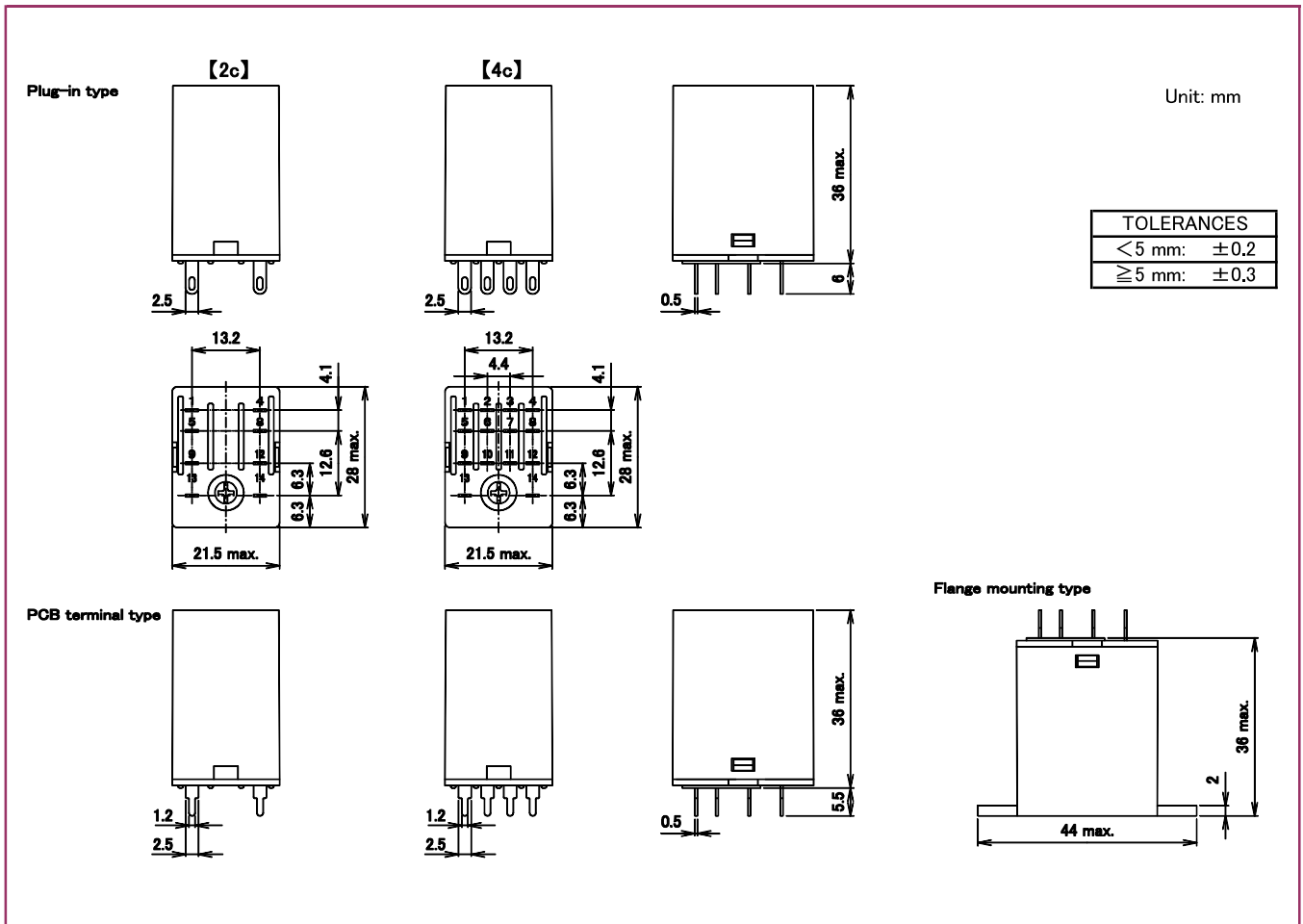
- Notes: The above is the initial value.  
 In the Electrical Appliances and Materials Safety Act, the 4-pole type should not use the voltage exceeding 150V AC.  
 However, this is not the case unless the Electrical Appliances and Materials Safety Act is required.

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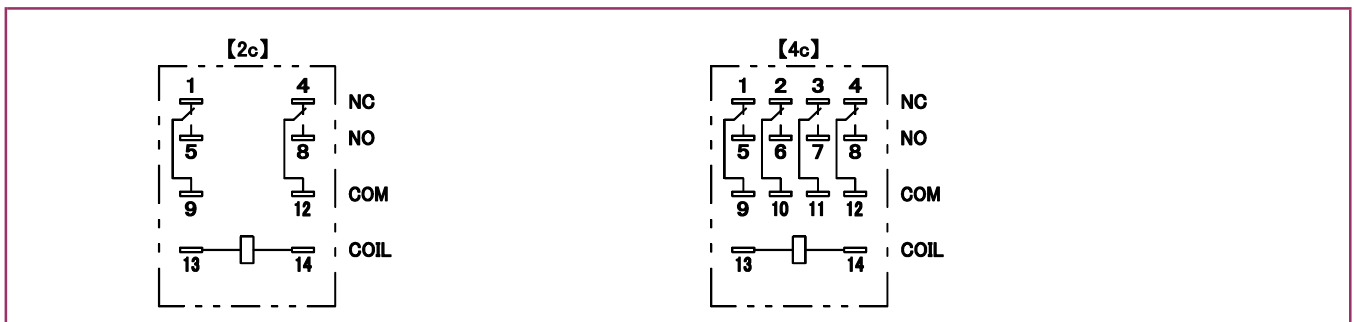
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# HMS series

## ■ Dimensions

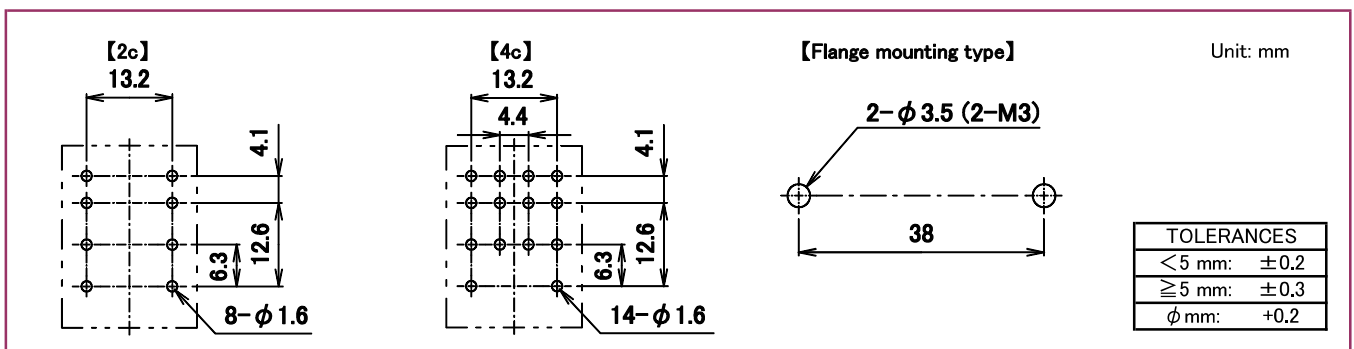


## ■ Schematics



## ■ PCB mounting holes

## ■ Mounting holes



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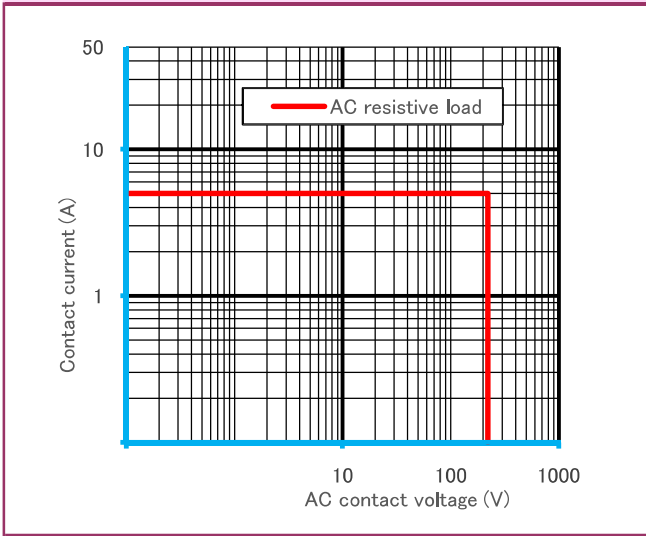
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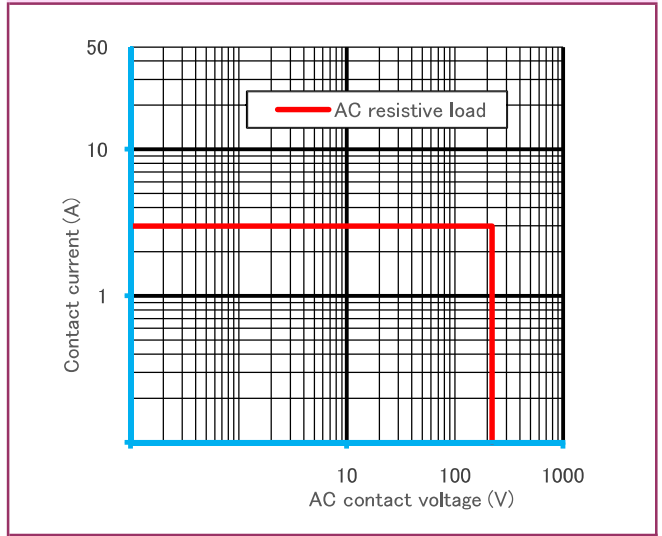
## Reference data

■ Maximum switching capacity

HMS2



HMS4



● 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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