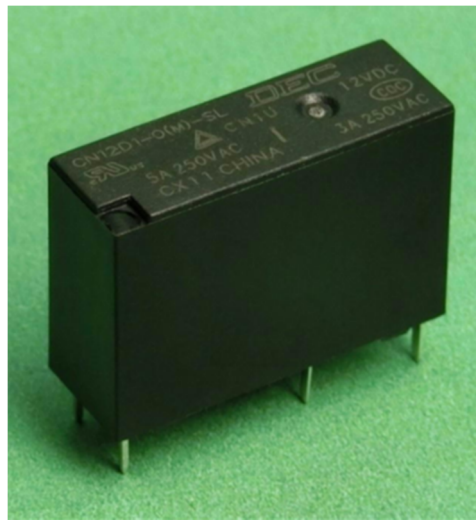


CN
series

Power relay series pursuing reliability and safety



CN1U

■ Currently it is used for such purposes

- Air conditioners, Washing machines, Washers dryers
- Control panel, Power supply equipment, Telecommunications equipment
Copiers, Measuring instruments, Medical devices
- Various household appliances

DEC is a professional manufacturer of relays

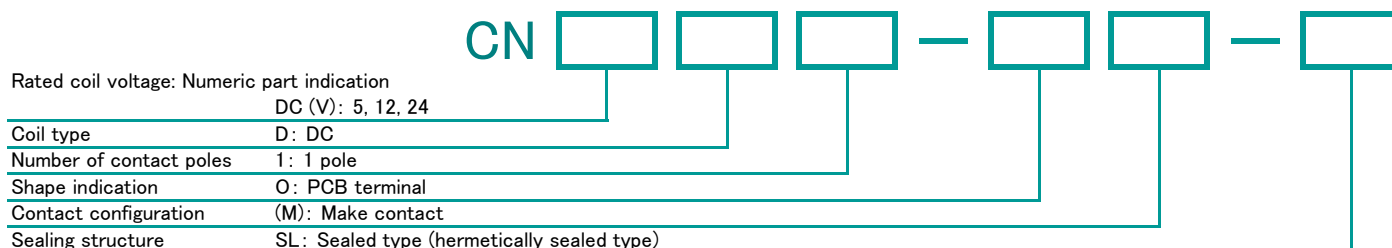
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CN series

■ Features

- General purpose miniature power relay boasting high reliability and achievement.
- PCB type, compact size, easy to use 1 pole type relay.

■ Model numbering system



■ Safety standards

	Contact rating
UL (C-UL)	5A 250V AC
TUV	5A 250V AC
CQC	3A 250V AC
Electrical Appliances and Materials Safety Act	Conformable

■ Coil ratings

Item		Rated current (mA)	Coil resistance (Ω)	Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption (W)
AC/DC	Voltage			Ratio to rated voltage			
DC	5	40	125	75% max.	5% min.	110%	0.2
	12	16.7	720				
	24	8.3	2880				

- Notes:
1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is $\pm 10\%$.
 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.

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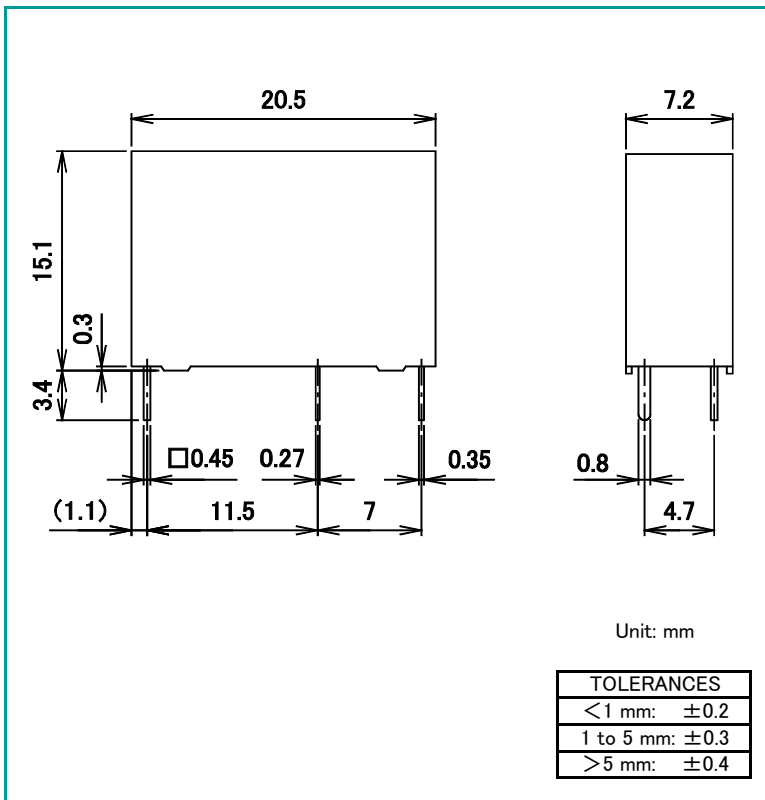
CN series

■ Ratings・Performance

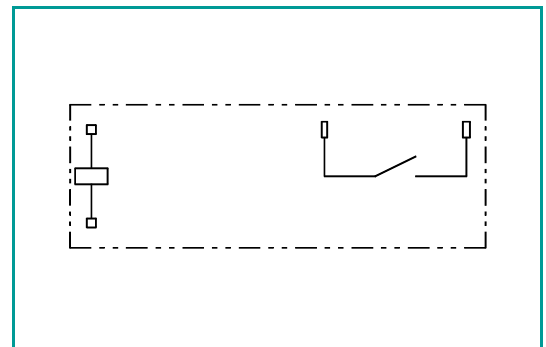
Specifications	Item		Performance
Contact specification	Contact configuration		1a
	Contact resistance		100m Ω max. (at DC6V 1A)
	Contact material		Ag alloy
Ratings	Rated load (resistive load)		AC125V 3A
	Max. switching capacity (resistive load)		375VA
	Max. switching voltage		AC250V
	Max. switching current		3A
Electrical capability	Insulation resistance		100M Ω min. (at DC500V)
	Dielectric strength	Between coil and contact	AC4000V 1 min
		Between open contact	AC750V 1 min
	Operate time (at rated voltage on, at 20°C)		10ms max. (excluding contact bounce time)
	Release time (at rated voltage off, at 20°C)		10ms max. (excluding contact bounce time)
Mechanical capability	Vibration resistance	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)
		Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)
	Shock resistance	Malfunction	100m/s ²
		Destruction	1000m/s ²
Life	Mechanical endurance (at 180 times/min)		1 000 000 times min.
	Electrical endurance (resistive load) (at 12 times/min)		100 000 times min. (at rated load)
Conditions for operation	Ambient temperature		-40°C to +70°C (no freezing and condensing at low temperature)
	Ambient humidity		5% to 85%RH
Mass			approx. 4g

● Notes: The above is the initial value.

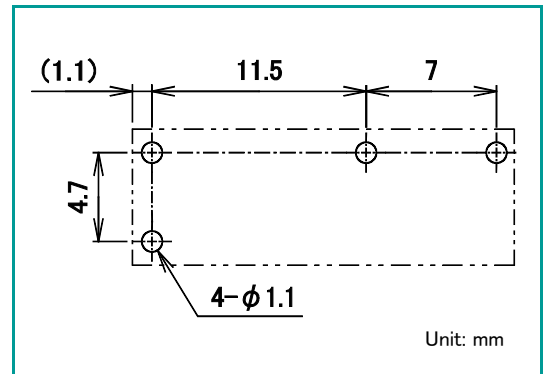
■ Dimensions



■ Schematics



■ PCB mounting holes (tolerances ±0.1)



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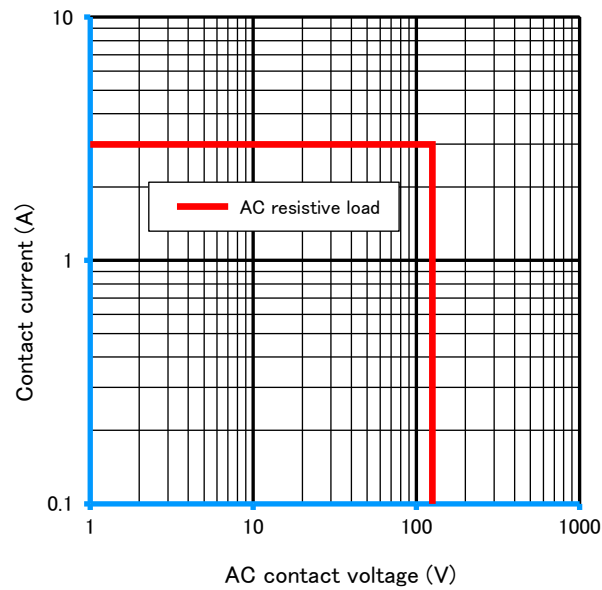
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CN series

Reference data

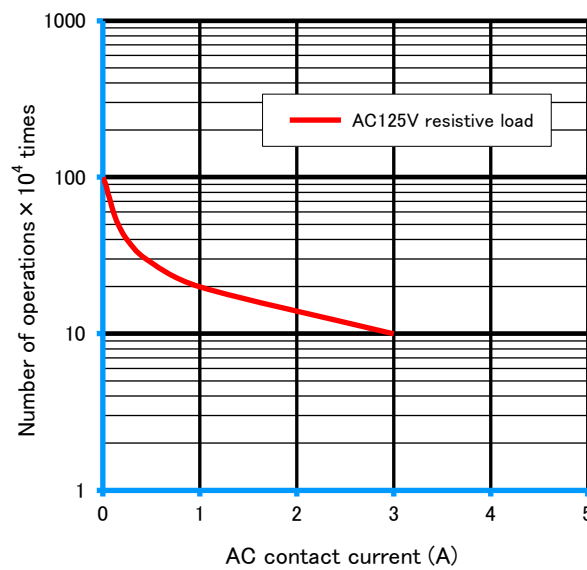
■ Maximum switching capacity

CN1U



■ Durability curve

CN1U



● 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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