



Power relay series pursuing reliability and safety









CI1U (tab terminal type)



CI1U (PCB terminal type)

- Currently it is used for such purposes
- Industrial equipment, Solar water heater, Factory automation equipment,
 Automation equipment, Commercial equipment
- Various household appliances
- Ideal for air conditioners

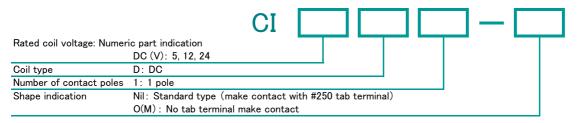
DEC is a professional manufacturer of relays



■ Features

- O Boasting high reliability and achievement, suitable for motor load of air conditioners compressor.
- O PCB type and TMP type (with tab terminal for contact and PCB terminal for coil and contact signal) are prepared.
- O Small size, easy to use 1-pole type, ideal for inverter power supply for air conditioners.

■ Model numbering system



■ Safety standards

Contact rating	Contact rating
UL (C-UL)	20A 250V AC
TUV	Making: $80A(\cos\phi=0.7\ 300ms)$ Breaking: $25A(\cos\phi=0.9)$ 250V AC
CQC	25A 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
AC/E	AC/DC Voltage				Ratio to rated voltage			(W)
DC		5	180	27.8		5% min.	110%	0.9
	DC	12	75	160	75% max.			
	24	37.5	640					

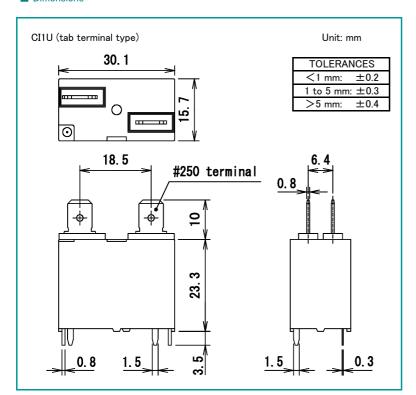
- Notes: 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is ±10%.
 - 2. Operate voltage and release voltage are values at coil temperature of 20°C .
 - 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.

■ Ratings • Performance

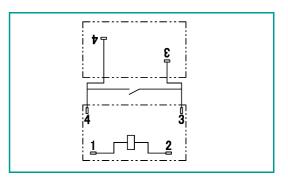
Specifications		Item	Performance		
Ourtest	Contact con	figuration	1a		
Contact	Contact resi	stance	100mΩ max. (at DC6V 1A)		
specification	Contact mat	erial	Ag alloy		
	Rated load (resistive load)	AC250V 20A		
Ratings	Max. switching capacity (resistive load)		5000VA		
Ratings	Max. switchi	ng voltage	AC250V		
	Max. switchi	ng current	20A		
	Insulation re	sistance	100M Ω min. (at DC500V)		
	Dielectric	Between coil and contact	AC4000V 1 min		
Electrical	strength	Between open contact	AC1000V 1 min		
capability	Impulse withstand voltage (between coil and contact)		8500V min. (1.2 × 50 μ s)		
	Operate time (at rated voltage on, at 20°C)		20ms max. (excluding contact bounce time)		
	Release time (at rated voltage off, at 20°C)		10ms max. (excluding contact bounce time)		
	Vibration	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)		
Mechanical	resistance	Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)		
capability	Shock	Malfunction	100m/s ²		
	resistance	Destruction	1000m/s ²		
	Mechanical endurance (at 60 times/min)		1 000 000 times min.		
Life	Electrical endurance (resistive load)		100 000 times min. (at rated load)		
	(at 6 times/min)		100 000 times mill. (at rated load)		
Conditions for	Ambient tem	perature	-20°C to +60°C (no freezing and condensing at low temperature)		
operation	Ambient hun	nidity	5% to 85%RH		
Mass			approx. 23g		

Notes: The above is the initial value.

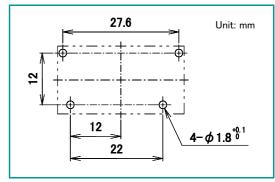
Dimensions



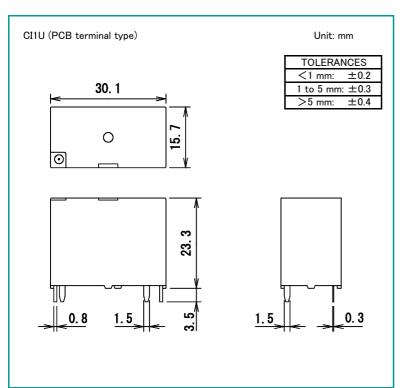
Schematics



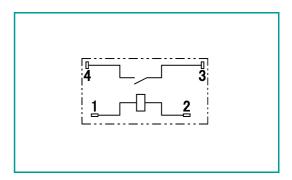
■ PCB mounting holes (tolerances±0.1)



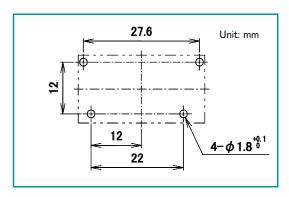
Dimensions



Schematics

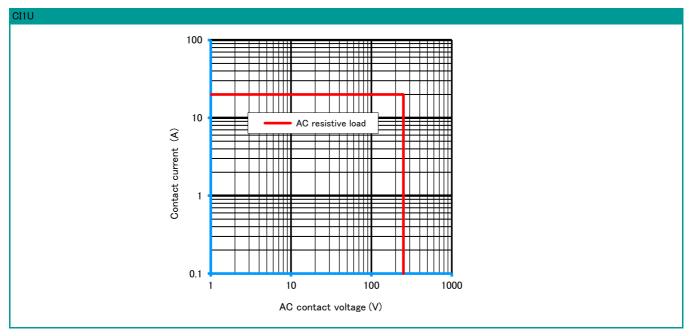


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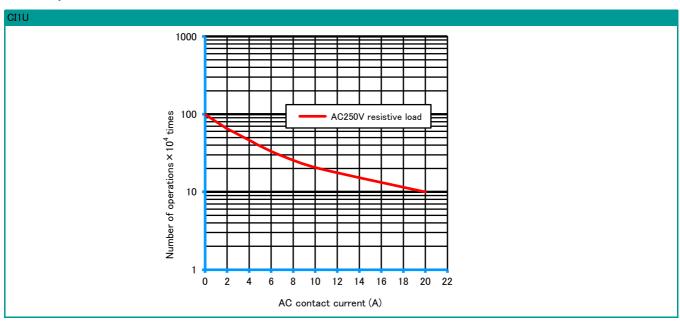


Reference data

■ 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

DEC is a professional manufacturer of relays

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