

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

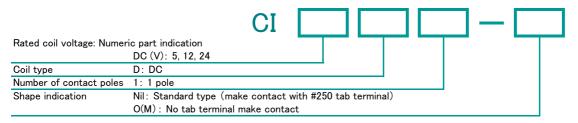
DEC is a professional manufacturer of relays



■ 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
ŀ	AC/DC	O/DC Voltage			Ratio to rated voltage			(W)
		5	180	27.8				
	DC	12	75	160	75% max.	5% min.	110%	0.9
		24	37.5	640				

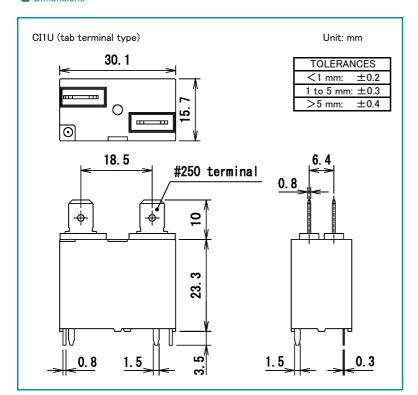
- Notes: 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is ±10%.
 - 2. Operate voltage and release voltage are values at coil temperature of 20°C .
 - 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating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

■ Ratings • Performance

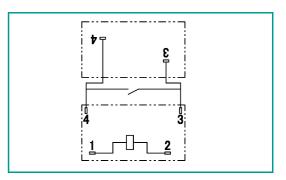
Specifications	Item	Performance		
Ormana	Contact configuration	1a		
Contact specification	Contact resistance	100m Ω max. (at DC6V 1A)		
specification	Contact material	Ag alloy		
	Rated load (resistive load)	AC250V 20A		
Ratings	Max. switching capacity (resistive load)	5000VA		
ratings	Max. switching voltage	AC250V		
	Max. switching current	20A		
	Insulation resistance	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 co	ontact) 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)			
Conditions for	Ambient temperature	-20°C to +60°C (no freezing and condensing at low temperature)		
operation	Ambient humidity	5% to 85%RH		
Mass		approx. 23g		

Notes: The above is the initial value.

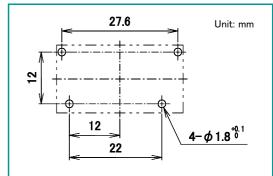
Dimensions



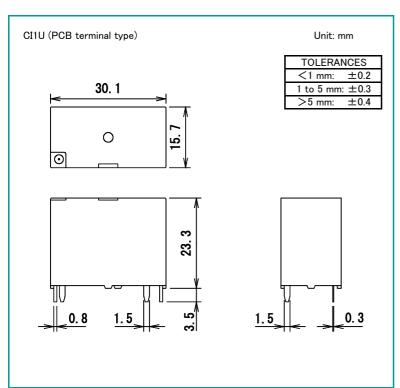
Schematics



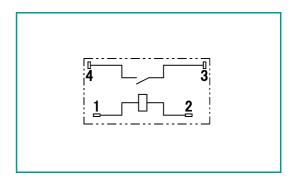
■ PCB mounting holes (tolerances±0.1)



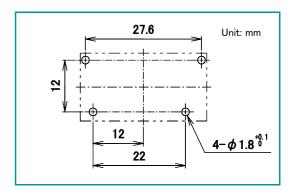
Dimensions



Schematics

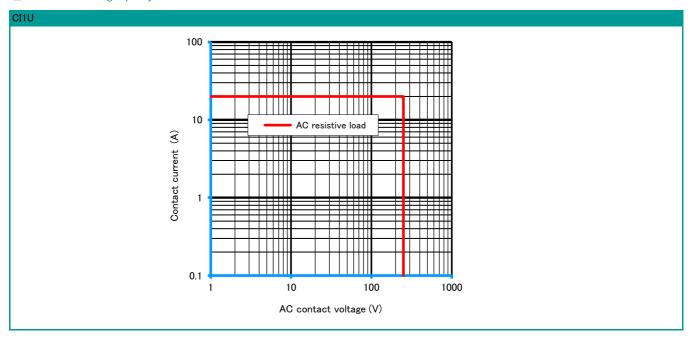


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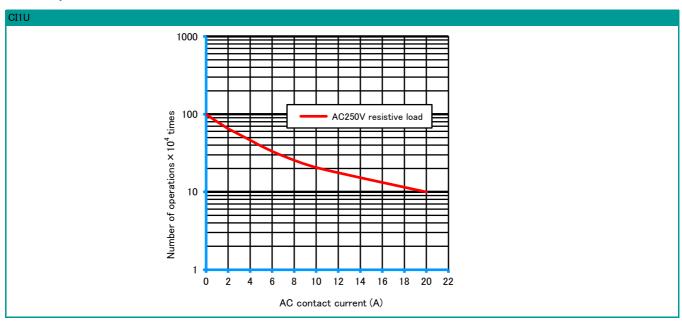


Reference data

■ 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 detail

DEC is a professional manufacturer of relays

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