



Power relay series pursuing reliability and safety









EQ1U

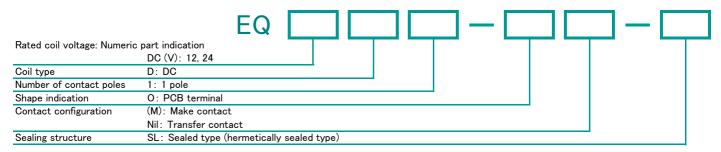
- Currently it is used for such purposes
- Air conditioners, Refrigerator, Fan heater, Water heaters
- Control panel, Power supply equipment, Telecommunications equipment
 Copiers, Measuring instruments, Medical devices
- Various household appliances

DEC is a professional manufacturer of relays

■ Features

- O General purpose miniature power relay boasting high reliability and achievement.
- $\ensuremath{\mathsf{O}}$ PCB type, compact size, easy to use 1 pole type relay.

■ Model numbering system



■ Safety standards

	Contact rating				
	EQ1U 1a	EQ1U 1c			
UL (C-UL)	1a: AC277V 5A	1c: AC277V 5A(NO)/ 3A(NC)			
VDE	1a: AC277V 5A	1c: AC277V 5A(NO)/ 3A(NC)			
CQC	1a: AC277V 5A	1c: AC250V 8A(NO)/ 5A(NC)			

Electrical Appliances and	Conformable
Materials Safety Act	Comormatic

Coil ratings

	Item AC/DC Voltage		Rated current (mA)		Coil resistance (Ω)		Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption (W)	
F			1a	1c	1a	1c	Ratio to rated voltage			1a	1c
	DC	12	16.7	33.3	720	360	75% max.	75% max. 5% min.	110%	0.2	0.4
DC	DO	24	8.3	16.7	2880	1440					

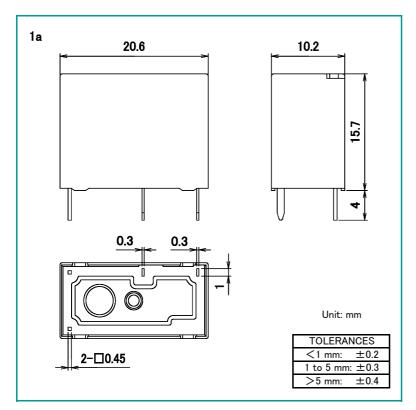
- Notes:
- 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is $\pm 10\%$.
- 2. Operate voltage and release voltage are values at coil temperature of 20°C.
- 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating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

■ Ratings • Performance

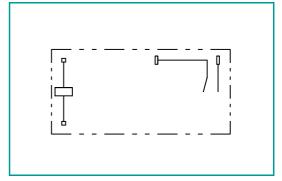
Specifications		Item	Performance		
0	Contact con	figuration	1a	1c	
Contact specification	Contact resi	stance	100mΩ max. (at DC6V 1A)		
specification	Contact mat	erial	Ag alloy		
	Rated load (resistive load)	AC250V 5A	AC250V 5A (NO) 3A (NC)	
Ratings	Max. switchi	ng capacity (resistive load)	1250VA	1250VA (NO) 750VA (NC)	
Ratifigs	Max. switchi	ng voltage	AC277V		
	Max. switchi	ng current	5A		
	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 with	stand voltage (between coil and contact)	8000V min. (1.2 × 50 μ s)		
	Operate time	e (at rated voltage on, at 20°C)	10ms max. (excluding contact bounce time)		
	Release time	e (at rated voltage off, at 20°C)	4ms 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 e	endurance (at 180 times/min)	1 000 000 times min.		
Life		durance (resistive load)	50 000 times min. (at rated load)	100 000 times min. (at rated load)	
	(at 12 times	· ·		· ·	
Conditions for	Ambient tem		-40°C to +70°C (no freezing and condensing at low temperature)		
operation	Ambient hun	nidity	5% to 85%RH		
Mass			approx. 6.5g		

Notes: The above is the initial value.

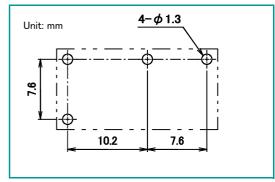
Dimensions



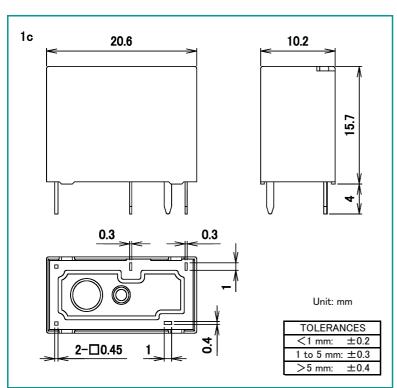
Schematics



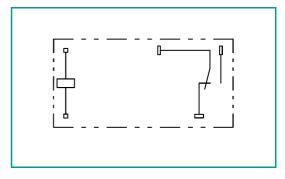
■ PCB mounting holes (tolerances±0.1)



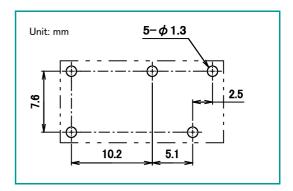
Dimensions



Schematics



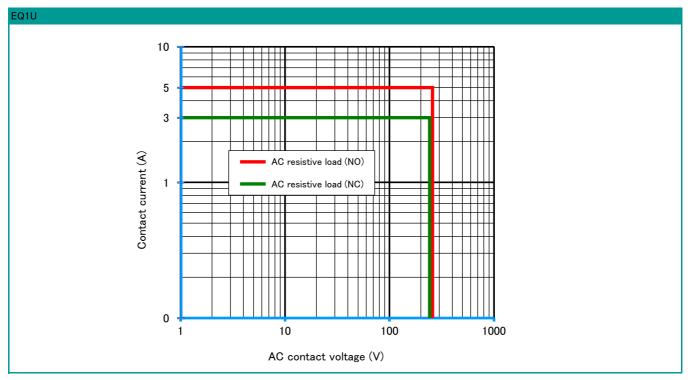
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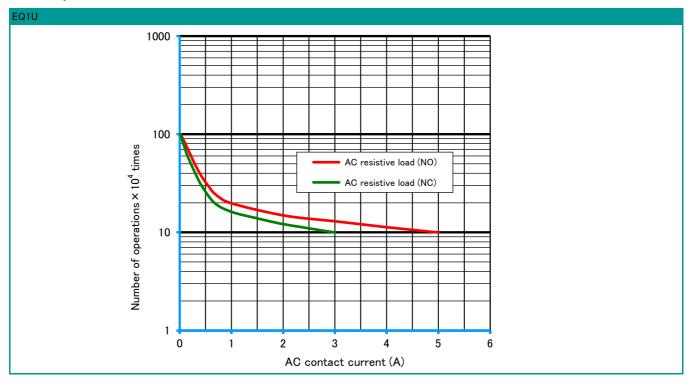
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Reference data

■ 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.
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