



Power relay series pursuing reliability and safety





EQ1U

# Currently it is used for such purposes

- O 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

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General purpose miniature power relay that can be used for a wide range of applications from control to power.

# EQ series

### Features

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

### Model numbering system

Rated coil voltage: Numeric	part indication	
	DC (V): 12, 24	
Coil type	D: DC	
Number of contact poles	1: 1 pole	
Shape indication	O: PCB terminal	
Contact configuration	(M): Make contact	
	Nil: Transfer contact	
Sealing structure	SL: Sealed type (hermetically sealed type)	

### 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 Materials Safety Act	Conformable					

#### Coil ratings

		Item	Rated current (mA)		Coil resistance (Ω)		Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power cor (V	nsumption V)	
1	AC/DC Voltage		1a	1c	1a	1c	Ra	tio to rated volta	age	1a	1c	
	DC	12	16.7	33.3	720	360	75% max.	5% min.	110%	0.2	0.4	
	BC	24	8.3	16.7	2880	1440		75% max.	75% max.	75% max.	J⁄a min.	110/0

• 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.

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# EQ series

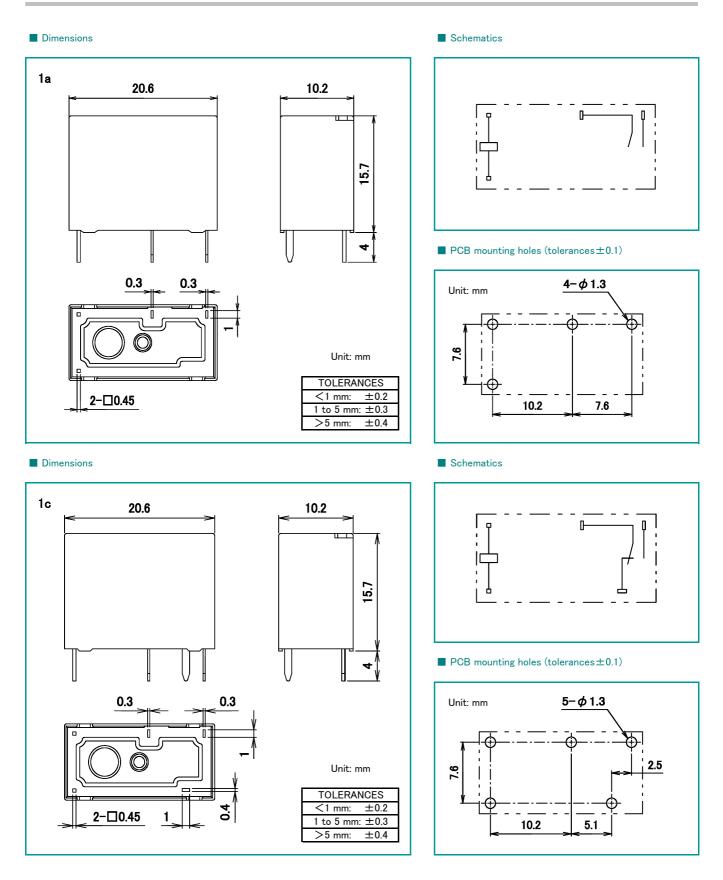
## Ratings • Performance

Specifications		Item	Performance			
0	Contact con	figuration	1a	1c		
Contact	Contact res	istance	100mΩ max. (at DC6V 1A)			
specification	Contact mat	terial	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)		
naungs	Max. switchi	ng voltage	AC277V			
	Max. switchi	ng current	5A			
	Insulation re	sistance	100MΩ min. (at DC500V)			
	Dielectric	Between coil and contact	AC4000V 1 min			
Electrical	strength	Between open contact	AC1000	IV 1 min		
capability	Impulse with	stand voltage (between coil and contact)	8000V min. (1.2 × 50 μ s)			
	Operate tim	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 <sup>2</sup>			
	resistance	Destruction	1000m/s <sup>2</sup>			
	Mechanical	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)		
0	(at 12 times	•				
Conditions for	Ambient ten	•	-40°C to +70°C (no freezing and condensing at low temperature)			
operation	Ambient hur	nidity	5% to 85%RH			
Mass			approx. 6.5g			

• Notes: The above is the initial value.

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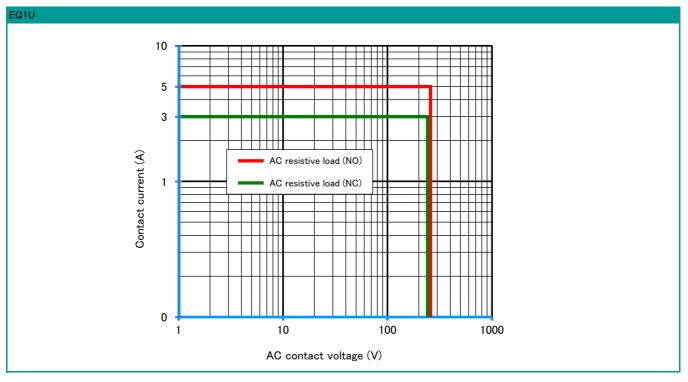


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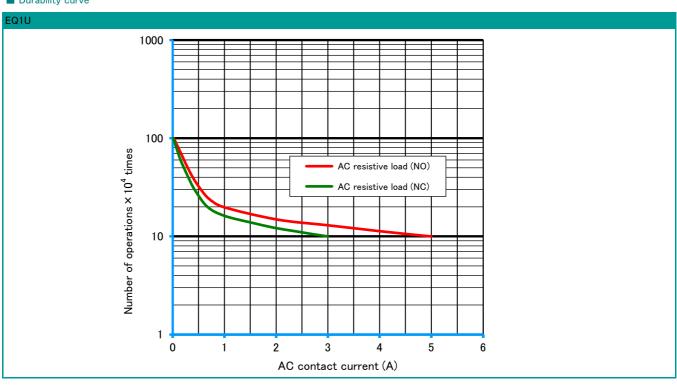
# EQ series

### Reference data

## Maximum switching capacity



### Durability curve



Please understand that specifications may be changed without notice due to product improvement etc.
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