RoHS compliant





Power relay series pursuing reliability and safety



DX1U

Currently it is used for such purposes

- Ideal for inverter power supply for air conditioners
- Control panel, Power supply equipment, Molding equipment, Machine tools, Welding machines, Machinery for agriculture
- Vending machines, Telecommunications equipment, Disaster prevention equipment, Copiers
- Commercial equipment, Measuring instruments, Medical devices
- Various household appliances

DEC is a professional manufacturer of relays

Daiichi Electric Co., Ltd. https://www.j-dec.co.jp General purpose miniature power relay that can be used for a wide range of applications from control to power.

DX series

Features

- O General purpose power relay boasting high reliability and achievement.
- O PCB type, easy to use 1 pole type relay.
- O Ideal for inverter air conditioners.
- O Ideal for air conditioners and general commercial equipment using inverter power supply.
- O Conforms to the various safety standards.

Model numbering system

		DX					—] [
Rated coil voltage: Numeric part indication									
	DC (V): 5, 12, 15, 24								
Coil type	D: DC								
Number of contact poles	1:1 pole								
Shape indication	0: PCB terminal								
Contact configuration	(M): Make contact								

Safety standards

	Contact rating
UL (C-UL)	20A 277V AC
VDE	$20A(\cos\phi=1) 250V AC$ $15A(\cos\phi=0.4) 250V AC$
CQC	$20A(\cos\phi=1)$ 250V AC 15A($\cos\phi=0.4$) 250V AC
Electrical Appliances and Materials Safety Act	Conformable

Coil ratings

Item AC/DC Voltage		Rated current Coil resistan (mA) (Ω)		Operate voltage (V)	Release voltage (V) Ratio to rated voltage	Maximum voltage (V)	Power consumption	
					(W)			
	5	140	36		10% min.	110%		
DC	12	58	206	80% max.			0.7	
DC	15	46	322				0.7	
	24	29	823					

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 $20^\circ C$.

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.

DEC is a professional manufacturer of relays DEC Dailchi Electric Co., Ltd. https://www.j-dec.co.jp

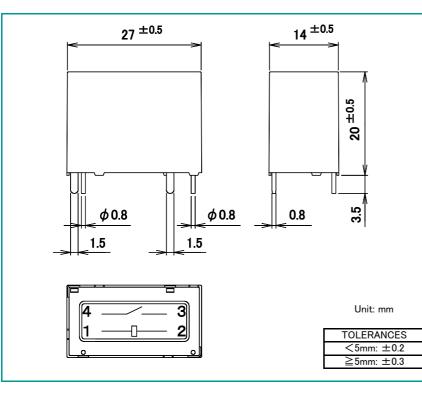
DX series

Ratings • Performance

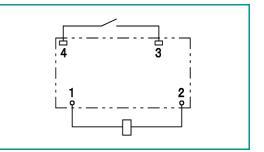
Specifications		Item	Performance			
0	Contact conf	iguration	1a			
Contact specification	Contact resis	stance	$30\mathrm{m}\Omega$ max. (at DC6V 1A)			
	Contact mate	erial	Ag alloy			
Ratings	Rated load (in	nverter load)	AC250V 20A			
	Max. switchir	ng capacity (inverter load)	5000VA			
	Max. switchir	ng voltage	AC250V			
	Max. switchir	ng current	20A			
	Insulation res	sistance	100M Ω min. (at DC500V)			
	Dielectric strength	Between coil and contact	AC4000V 1 min			
Electrical		Between open contact	AC1000V 1 min			
capability	Impulse with	stand voltage (between coil and contact)	10 000V min. (1.2 × 50 μ s)			
	Operate time	e (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	200m/s ²			
	resistance	Destruction	1000m/s ²			
	Mechanical e	ndurance (at 180 times/min)	1 000 000 times min.			
Life	Electrical end	durance	50 000 times min. (inverter load)			
	(at 12 times/	ímin)				
Conditions for	Ambient tem	perature	-20°C to +60°C (no freezing and condensing at low temperature)			
operation	Ambient hum	idity	5% to 85%RH			
Mass			approx. 15g			

• Notes: The above is the initial value.

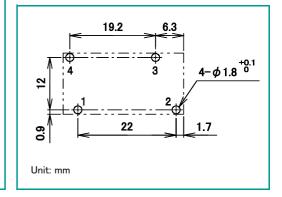
Dimensions



Schematics



PCB mounting holes (tolerances±0.1)

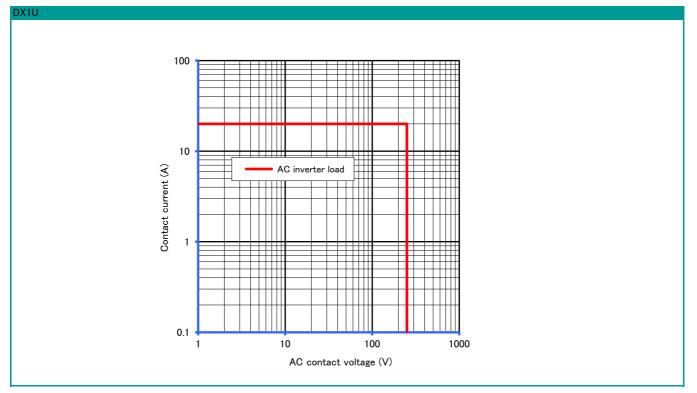


DEC is a professional manufacturer of relays
DEC Daiichi Electric Co., Ltd.
https://www.j-dec.co.jp

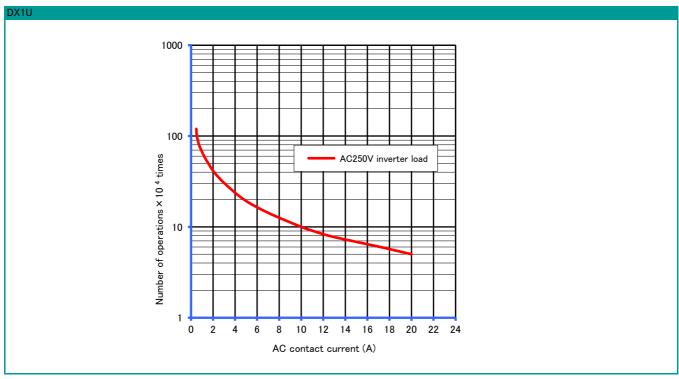
DX series

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 Agency 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