



Power relay series pursuing reliability and safety









EL1U (tab terminal type)



EL1U-B (screw terminal type)



EL1U (PCB terminal type)



EL2U (tab terminal type)



EL2U-B (screw terminal type)



EL2U (PCB terminal type)

■ Currently it is used for such purposes

- Packaged air conditioners, Large air conditioners such as commercial air conditioners,
 Refrigerated display cabinets
- Electric water heaters, Hot water supply equipment such as Eco Cute,
 Photovoltaic power generation control device
- Power supply for commercial equipment, Power supply for electric tools,
 Measuring instruments, Medical devices, Disaster prevention equipment
- Machine tools, Molding equipment, Welding machines, Packing machines, Food processing machines, Machinery for agriculture
- Uninterruptible Power Systems (UPS), Copiers power supply,
 Vending machines, Lighting control panel
- Various large household appliances, Large refrigerator, Large microwave ovens, Bathroom drier

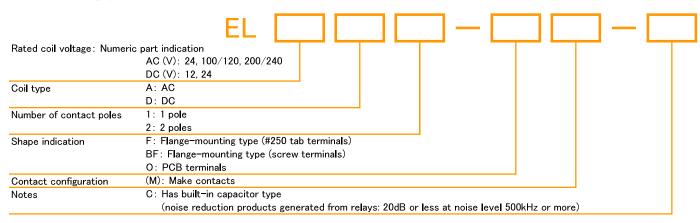
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Features

- O It has been designed for controlling of high capacity use.
 - 1a contact 30A, 2a contact 25A.
- O Quick-connect, screw, and PCB terminals available.
- O AC/DC coil is prepared. No contact chattering for momentary voltage drops up to 50% of rated voltage.
- O AC-activated coil is wide range specification of AC 100V to 120V or AC 200V to 240V.
- O Primary-secondary insulation distance is 8mm and the contact spacing is 3mm or more, it is a safety design with excellent insulation performance "UL 94V-0" molding material is adopted for all insulating materials.

■ Model numbering system



Safety standards

	Contact rating				
	EL1U	EL2U			
UL/cUL	30A 277V AC (General use)	25A 277V AC (General use)			
TUV	30A ($\cos \phi$ =1, $\cos \phi$ =0.4) 250V AC	25A $(\cos\phi$ = 1, $\cos\phi$ = 0.4) 250V AC 20A $(\cos\phi$ = 1) 480V AC			
CQC	30A 277V AC	25A 277V AC			

Electrical Appliances and Materials Safety Act	Conformable
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■ Coil ratings

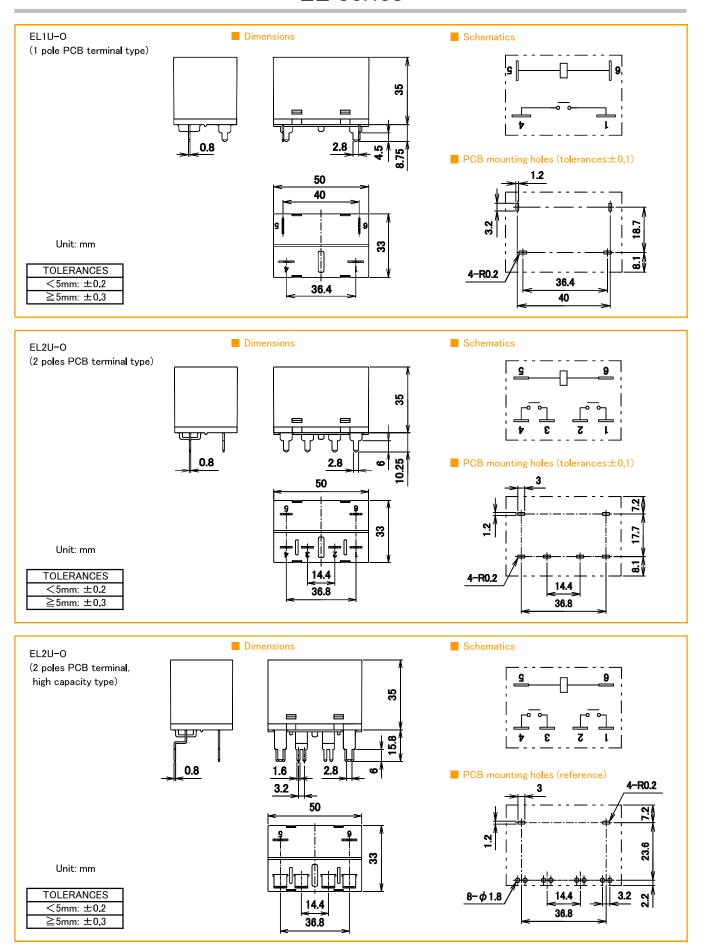
AC/DC	Item Voltage	Rated current (mA) (AC: 50Hz/60Hz)	Coil resistance (Ω)	Operate vo l tage (V)	Release voltage (V) Ratio to rated voltage	Maximum voltage (V)	Power consumption
AC	24 100/120 200/240	71.0 17.0 to 20.4 8.5 to 10.2		80% max.	15% min.	110%	1.7VA to 2.5VA
DC	12 24	160 79	75 303	80% max.	10% min.	110%	1.9W

- Notes:
- 1. Rated current and coil resistance are values at coil temperature of 20° C, with tolerance of +15%/-20% for AC rated current. Tolerance is $\pm 10\%$ for DC coil resistance.
- 2. 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.
- 3. In the rated voltage of AC, "/" (for example, 100/120) is a range rating and can be used in this range of voltage. The current values in the table are shown as typical values at 100V and 200V.

■ Ratings • Performance

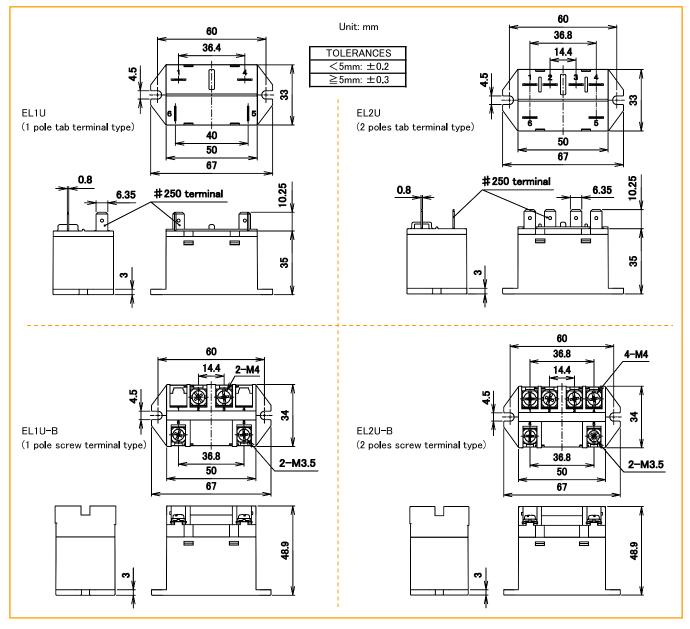
0 (0)				Performance		
Specifications	Item			EL1U	EL2U	
Control	Contact configuration			1a	2a	
Contact specification	Contact resistance			50mΩ max. (at DC6V 1A)		
Specification	Contact material			Ag alloy		
Ratings	Rated load (resistive load)			AC250V 30A	AC250V 25A	
	Max. switching capacity (resistive load)			7500VA	6250VA	
	Max. switching voltage			AC277V/DC30V		
	Max. switching current			30A	25A	
	Insulation resistance			100M Ω min. (at DC500V)		
	Dielectric	Between coil and contacts		AC4000V 1 min		
Electrical	strength	Between open contacts		AC2000V 1 min		
capability		Between	opposite polarity contacts	<u> </u>	AC2000V 1 min	
σαραδιίτες	Impulse withstand voltage (between coil and contacts)			10 000V min. $(1.2 \times 50 \mu\mathrm{s})$		
	Operate time (at rated voltage on, at 20°C)			30ms max. (excluding contact bounce time)		
	Release time (at rated voltage off, at 20°C)			30ms max. (excluding contact bounce time)		
	Vibration	ion Malfunction		10 to 55 to 10Hz (double amplitude 1.5mm)		
Mechanical	resistance Destruction		on	10 to 55 to 10Hz (double amplitude 1.5mm)		
capability	Shock Malfunction resistance Destruction		on	100m/s ²		
			on	$1000 \mathrm{m/s}^2$		
	Mechanical endurance (at 180 times/min)		t 180 times/min)	1 000 000 times min.		
Life	Electrical endurance (at 20 times/min) Resistive load Inductive load ($\cos \phi$ =0.4)		Resistive load	100 000 times min.	100 000 times min.	
			Inductive load (cos ϕ =0.4)	(AC250V 30A)	(AC250V 25A)	
Conditions for	Ambient temperature			-25°C to +60°C (no freezing and condensing at low temperature)		
operation	Ambient humidity			5% to 85%RH		
Mass				Standard type: 90g to 93g	Standard type: 93g to 95g	
				Screw terminal type: 128g to 133g	Screw terminal type: 133g to 135g	

Notes: The above is the initial value.

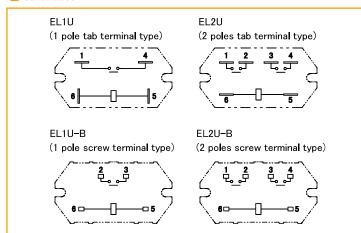


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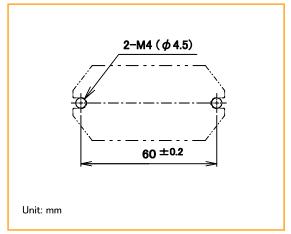
Dimensions



Schematics



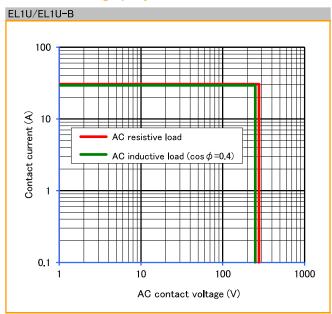
■ Mounting holes (common for flange type)

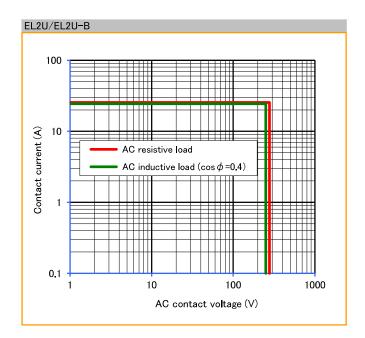


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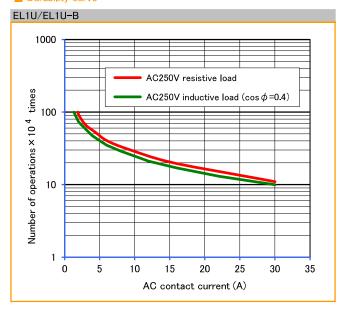
Reference data

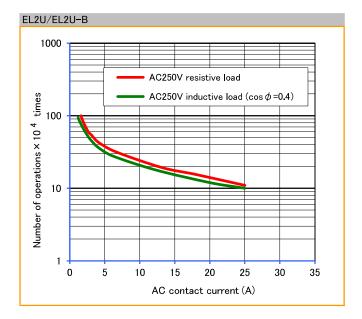
■ Maximum switching capacity





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

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