

EL series

■ Ratings・Performance

Specifications	Item		Performance	
			EL1U 1a	EL2U 2a
Contact specification	Contact configuration		1a	2a
	Contact resistance		50mΩ max. (at DC6V 1A)	
	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
Electrical capability	Insulation resistance		100MΩ min. (at DC500V)	
	Dielectric strength	Between coil and contacts	AC4000V 1 min	
		Between open contacts	AC2000V 1 min	
		Between opposite polarity contacts	—	AC2000V 1 min
	Impulse withstand voltage (between coil and contacts)		10 000V min. (1.2 × 50 μs)	
	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)		
Mechanical capability	Vibration resistance	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)	
		Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)	
	Shock resistance	Malfunction	100m/s ²	
		Destruction	1000m/s ²	
Life	Mechanical endurance (at 180 times/min)		1 000 000 times min.	
	Electrical endurance (at 20 times/min)	Resistive load Inductive load (cos φ = 0.4)	100 000 times min. (AC250V 30A)	100 000 times min. (AC250V 25A)
Conditions for operation	Ambient temperature		-25°C to +60°C (no freezing and condensing at low temperature)	
	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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