

AUTOMOTIVE RELAY



Features

- Max. switching capability: 20A,
Low power consumption: 0.6W;
- Subminiature, standard PCB type;
- Highly shockproof and anti-impact performance;

Ordering Information

YQ501-S-1 12 D M

Contact Form: Nil-Form C, M-Form A, B-Form B

Coil Power: D-0.6W

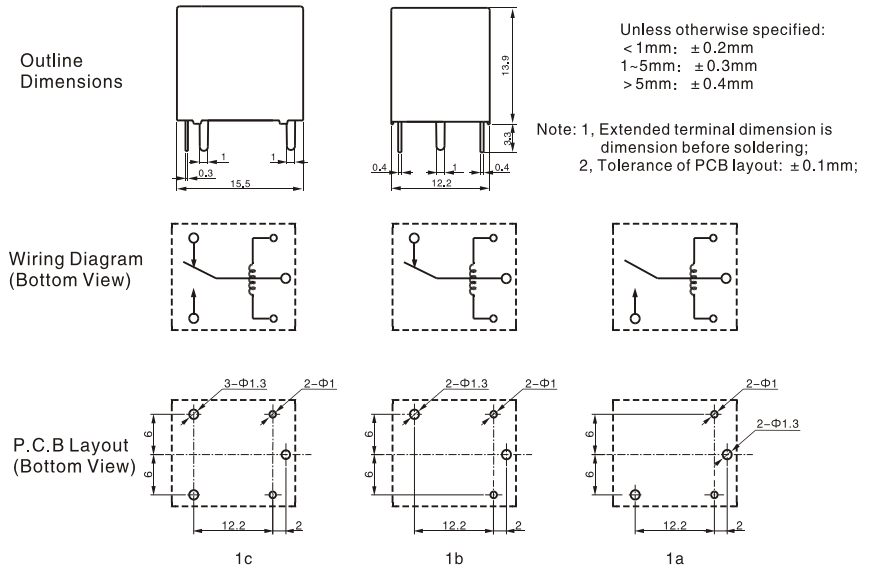
Coil Voltage(VDC): 06,09,12,24

Number of Poles: 1-1Pole

Protective Construction: S-Plastic sealed, SH-Sealed type washable

Type Designation.: YQ501

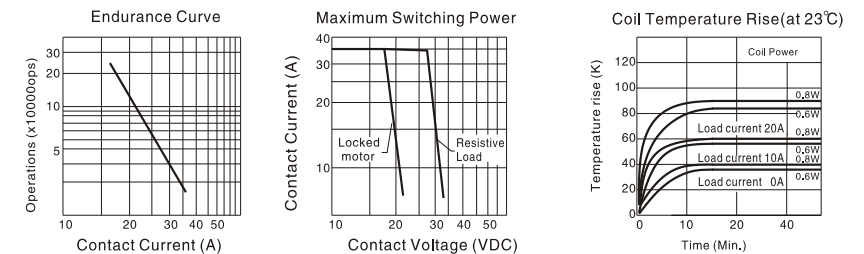
Outline Dimensions, Wiring Diagram and PC Board Layout (Unit:mm)



TYPICAL APPLICATIONS

- Auto door lock
- Home appliance
- Office equipment
- Automatic burglar alarm

CHARACTERISTIC CURVES



Contact Data

Model	YQ501
Contact form	1a;1b;1c
Initial contact resistance	50mΩ Max.
Contact material	Silver alloy
Nominal switching capacity(res.load)	20A 14VDC
Max.Switching Current	20A
Max.switching voltage	30VDC
Max.switching power	280W
Mechanical endurance (at 10,800 ops./h)	1x10 ⁷ Ops.
Electrical endurance(at 1,800 ops./h)	1x10 ⁵ Ops.

Characteristics

Operate time(at nominal volt)	10ms Max.	
Release time(at nominal volt)	5ms Max.	
Initial insulation resistance	100MΩ Max.(500VDC)	
Initial Dielectric strength	between open contacts	500VAC, 50/60Hz 1Min.
	between coil&contacts	500VAC, 50/60Hz 1Min.
Vibration resistance	Functional	10~55HZ, Double amplitude of 1.5mm
	Destructive	10~55HZ, Double amplitude of 1.5mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Ambient temperature	-40°C~+125°C (no condensation)	
Unit weight	Approx. 6g	

Coil Data (at 23°C)

Nominal voltage (VDC)	Nominal operating current±10% (mA)	Coil resistance ±10% (Ω)	Max. Allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
6	33.4	180	110 % of nominal voltage	70 % of nominal voltage	10 % of nominal voltage	0.6W
9	22.3	405				
12	16.7	720				
24	8.4	2,880				