

Miniature PCB Automotive Relay

YAR-Series



Features

- Miniature automotive relay.
- Max. switching current: 30A.
- High power automotive relay.
- Both single and dual relays available.

Contact Capacity

Model	YAR		
Nominal Switching Capacity	N0/NC: 40A/30A 13.5VDC		
Max.swithing current	40A		
Max.swithing voltage	30VDC		
Max.swithing power	560W		

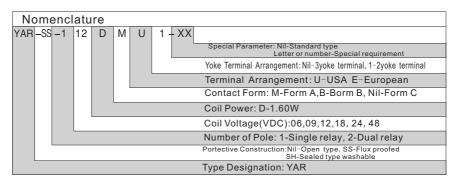
Characteristic Data

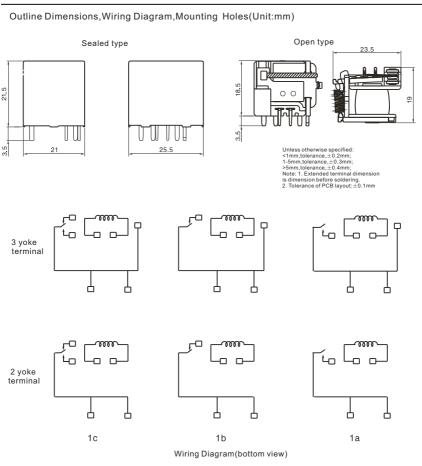
Contact material		Silver alloy		
Initial contact resistance		100mΩ Max.		
Operate time		10 msec. Max.		
Release time		10 msec. Max.		
Initial insulation resistance		100MΩ Min.(DC500V)		
Initial dielectric strength		Between open contacts: AC500V,50/60HZ 1Min.		
		Between coil and contacts: AC500V,50/60HZ 1Min.		
Vibration resistance		6G 10-55 HZ		
Shock resistance		30G 10-55HZ		
	Mechanical	5,000,000 times		
	Electrical	Res.Load:300,000 20A 13.5 VDC		
Endurance (operations)		Wiper motor:300,000 25A on, 5A off ,L=1.0mh		
		Motor locker:100,000 20A 13.5 VDC L=0.77mh		
		Lamp load(N0):100,000 inrush current 100A, steady current 10A		
		Flashing light(No): 1, 000, 000 3x21W		
Ambient temperature		-40°C ~ +125°C(no condensation)		
Unit weight		One type: Approx.16.0g; Sealed type: Approx20. 5g		

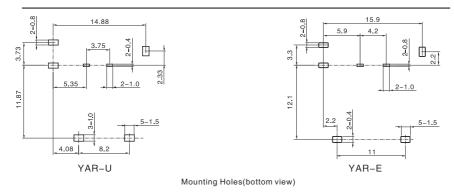
Coil Data(at 20℃)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ±10% (Ω)	Allowable voltage (Max.)	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
6	266.67	22.5	150%of nominal voltage	58%of nominal voltage	10%of nominal voltage	Approx. 1.60W
9	180.00	50				
12	133.33	90				
18	89.11	202				
24	66.67	360				
48	33.33	1,440				

Ordering Information







Typical Applications

• Automotive control, switching box, automation, etc.

Characteristic Curves

