

Features



- 70A high switching capability.
- 1 Form A contact configuration.
- High operating temperature; 125°C
- Dust proof and sealed type available.
- Transient suppression resistance or diode paraleled type available.

Contact Capacity

Model	YAL
Nominal Switching Capacity	70A 14VDC (at85°C) 50A 14VDC(at125°C)
Max.swithing current	70A
Max.swithing voltage	50VDC
Max.swithing power	980W

Characteristic Data

Contact material	Silver alloy
Initial contact resistance	20 mΩ Max.
Operate time	10msec. Max.
Release time	7msec. Max.
Initial insulation resistance	500MΩ Min.(DC500V)
Initial dielectric strength	Between open contacts: AC500V,50/60HZ 1Min.
	Between coil and contacts: AC500V,50/60HZ 1Min.
Vibration resistance	6G 10-55HZ
Shock resistance	30G 10-55HZ
Endurance	Mechanical At 10,800ps.h 10,000,000 times
	Electrical At 600ps.h 100,000 times
Ambient temperature	-40°C ~ +125°C(no condensation)
Unit weight	Approx.36.0g

Coil Data(at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Parallel Resistance (Ω)	Equivalent Resistance (Ω)	Allowable voltage (Max.)	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
6	266.67	22.5	180	19.6	150% of nominal voltage	60% of nominal voltage	10% of nominal voltage	1.6W
12	133.33	90	680	79.5				
24	66.67	360	2700	318				
6	266.67	20	180	18				
12	133.33	80	680	71.6				1.8W
24	66.67	320	2700	286				

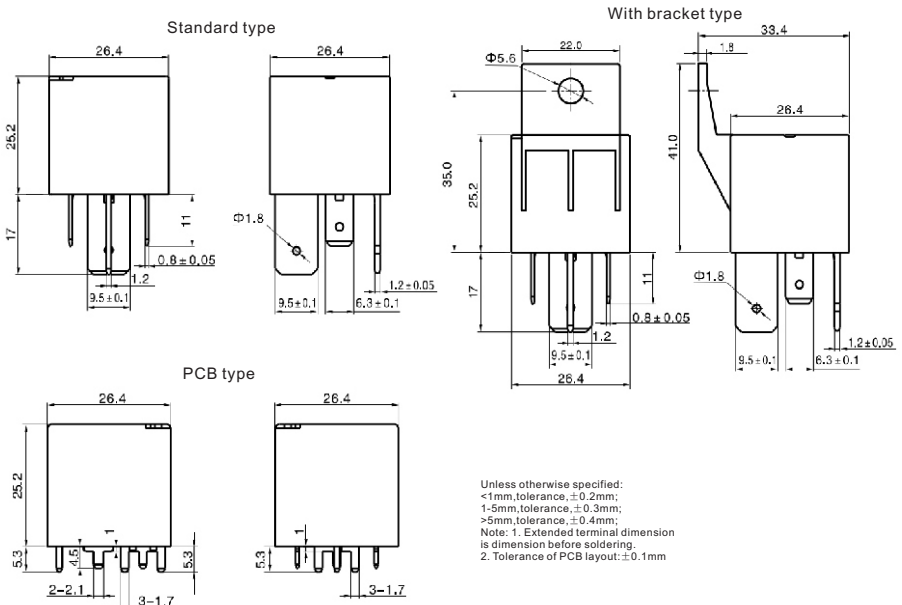
Coil Data(at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Parallel Resistance (Ω)	Equivalent Resistance (Ω)	Allowable voltage (Max.)	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
6	333.33	18	--	--	115% of nominal voltage	60% of nominal voltage	10% of nominal voltage	Approx. 2.0g
12	166.67	72	--	--				
24	83.33	288	--	--				
36	55.56	648	--	--				Approx. 2.2g
6	333.33	18	180	16				
12	166.67	72	680	65				
24	83.33	280	2700	260				

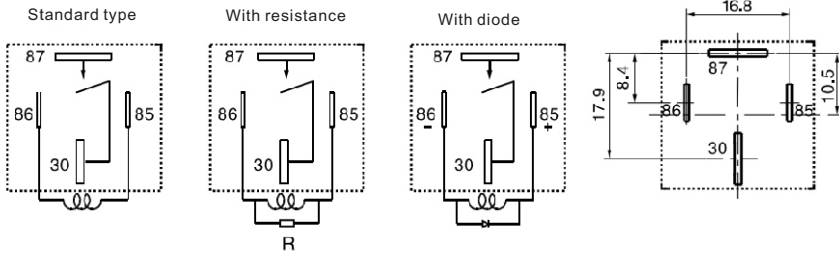
Ordering Information

Nomenclature	
YAL-SS-1 12 D M F R-XX	
	Special Parameter: Nil-Standard type Letter or number-Special requirement
	Accessory Form: Nil-Without accessory, F-With bracket,D-With diode
	Insulation System: Nil-Standard, B-Class B, F-Class F
	Contact Form: M-Form A, Nil-Form C
	Coil Power: D-1.8W/2.0W, D-2.2W
	Coil Voltage(VDC):06,12,24,36
	Number of Pole: 1-1 Pole, 2-2 Poles(Form A only)
	Protective Construction: SS-Flux proofed SH-Sealed type washable
	Type Designation: YAL

Outline Dimensions, Wiring Diagram, Mounting Holes(Unit:mm)



Note: Specifications and dimensions in this catalog are subjected to change without notice.



Wiring Diagram(bottom view)

Mounting Holes(bottom view)

Typical Applications

- Head light or foglight control, electric power distribution, traction control system, ABS
- Cooling fan control, fuel pump control, heating control, automotive air conditioner, rear window defogger, battery breaking device.

Characteristic Curves

