



Automotive Relays YD635

L×W×H(mm):28×28×25.5(+16)

**Features**

- I Miniature;
- I Contact load capacity up to 60A;
- I Terminal types as inserting;
- I Suitable for automobile.

Ordering Information

<u>YD635</u>	<u>- 12</u>	<u>- H</u>	<u>- B</u>	<u>R</u>	<u>P</u>	<u>60</u>
1	2	3	4	5	6	7
1 Part number: YD635 2 Coil rated Voltage(VDC): 6: 6V; 12: 12V; 24: 24V; 48: 48V 3 Contact Form: A: 1H; B: 1B; Z: 1Z; U: 1U; 2H: 2Z; 4 Cover: B: Insulation Bracket; Nil: No Bracket 5 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard 6 Terminals: P: PCB type; Nil: plug in type;						7 Contact load 60: 1H: 【NO: 60A/14VDC】 2H, 1U: 【NO: 2×30A/14VDC】 1B: 【NC: 40A/14VDC】 1Z: 【NO: 60A/14VDC, NC: 40A/14VDC】 40: 1H: 【NO: 40A/14VDC】 2H, 1U: 【NO: 2×20A/14VDC】 1B: 【NC: 30A/14VDC】 1Z: 【NO: 40A/14VDC, NC: 30A/14VDC】

Contact Data

Contact Form	1H (SPSTNO)、1B (SPSTNC)、1Z (SPDT(B-M))、1U (SPSTNODM)、2H				
Contact Material	Ag Alloy				
Contact Rating (resistive)		1H	1B	1Z	2H, 1U
	60	60A/14VDC	40A/14VDC	NO: 60A/14VDC NC: 40A/14VDC	2×30A/14VDC
	40	40A/14VDC	30A/14VDC	NO: 40A/14VDC NC: 30A/14VDC	2×20A/14VDC
Max. Switching Voltage	75VDC				
Max. Switching Current	60A/40A				
Max. Switching Power	840W/560W				
Contact Resistance or Voltage drop	≤100mΩ				
Electrical Life	1×10 ⁵ Times				
Mechanical Life	1×10 ⁷ Times				

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(Max.)	Release voltage VDC(Min.)	Coil power	Operate Time	Release Time
	Rated	Max.						
6V	6V	7.8V	20	3.9V	0.6V	1.8W	≤7 ms	≤5 ms
12V	12V	15.6V	80	7.8V	1.2V			
24V	24V	31.2V	320	15.6V	2.4V			
48V	48V	62.4V	1280	31.2V	4.8V			



Operation condition

Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Between Contacts	50Hz 500VAC / 1 minute
	Between Coil and Contacts	50Hz 750VAC / 1 minute
Shock resistance		147m/s ² 11ms
Vibration resistance		10~40Hz double amplitude 1.5mm
Terminals strength		100N
Solderability		235°C±2°C 3±0.5s
Ambient Temperature		-40°C ~ +85°C
Relative Humidity		85% (at 40°C)
Weight(Approx.)		35g, 37g(Insulation Bracket)

Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram (Bottom views)

Insulation Bracket

Standard

PCB type

Coil: standard Coil: with Resistance Coil: with Diode

1H 1B 1Z 1U 2H

Terminal Layout (Bottom views)

Wiring diagram (Bottom views)

Reference Data

