

# DC Relay

**Model: ZL180 (marked as WM686 for some OEM applications)**

Electric Characteristics:

Nominal Voltage (VDC)	Coil Resistance (ohm)	Operation Voltage (VDC)	Release Voltage (VDC)	Max. Working Voltage (VDC)
12V	30	≥ 8V	1.2V	14V
24V	120	≥ 16V	2.4V	28V
36V	270	≥ 26V	3.6V	42V
48V	480	≥ 34V	4.8V	56V

\* Coil power consumption: 4.8W (intermittent work), 2.4W (continuous work)

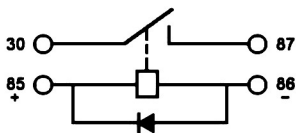
Main Contact & Coil:

Main contact material:	AgSnO <sub>2</sub> / In <sub>2</sub> O <sub>3</sub> / Sn (metallic alloy of Silver, Tin and Indium with excellent anti-welding and contacting capability)
Contact form:	1A type (also marked as 1H type), one normal open
Rated current:	100A / 120A / 200A
Contact resistance:	≤ 50mΩ
Max. withstand voltage:	96V DC
Dielectric strength between open contacts:	2000V AC for 1 minute
Dielectric strength between contact and coil:	1500V AC for 1 minute
Insulation resistance:	≥ 1.0MΩ @ 500V DC
Operating (close) delay:	15ms
Release delay:	15ms
Electrical life span:	100,000 times @ 30 operations / minute

Features include:

Temperature range:	-30°C ~ 100°C
Vibration resistance:	10Hz ~ 55Hz, 1.5mm
Shock resistance:	Operation extreme: 10G Damage limit: 100G
Humidity:	50 ~ 85%
Mechanical life span:	10,000,000 times
Net weight:	100g

Wiring Diagrams:



Dimensions:

