



AD/ADQ



18.2*17.4*13.8
Q Type:22.8*22.3*20.4

► FEATURES

- Small size, light weight.
- Low coil power consumption.
- Switching capacity up to 20A.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

► CONTACT DATA

Contact Arrangement	2A, 2C	
Contact Material	$\text{Ag}\cdot\text{SnO}_2$	
Contact Rating (resistive)	20A/14VDC	
Max. Switching Power	280W	
Max. Switching Voltage	40VDC Max. Switching Current:20A	
Contact Resistance or Voltage drop	$\leq 30\text{m}\Omega$ (or 30mV at 10A max make time 15s)	
Operation life	Electrical	2×10^5
	Mechanical	10^7

► COIL PARAMETER

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC) (58% of rated voltage)	release voltage(min) (VDC) (9% of rated voltage)	Coil power consumption (W)	Operate Time (ms)	Release Time (ms)
Rated	Max.						
12	18	180/240/260	6.9	1	0.8/0.6/0.56	≤ 3	≤ 1.2

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Sound Pre. Characteristics (Q type):

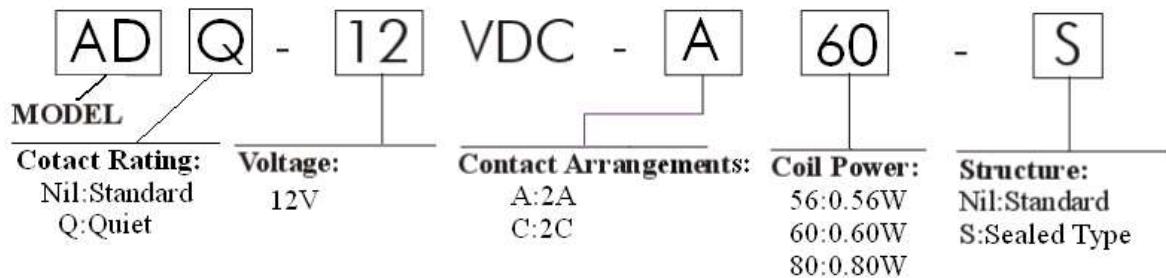
Operation noise: <50db

Coil voltage :12VDC

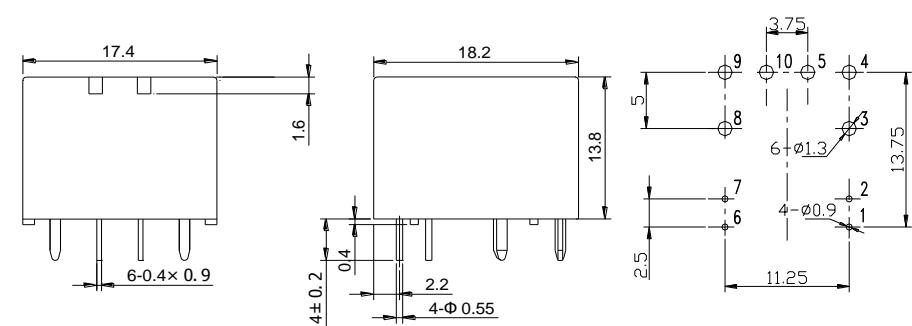
► OPERATION CONDITION

Insulation Resistance	100M Ω min (at 500VDC)	
Dielectric Strength Between contacts	50Hz 500V	
Between contact and coil	50Hz 500V	
Shock resistance	Functional: 300m/s ² Destruction: 450 m/s ²	
Vibration resistance	10~100Hz	100 m/s ² Double amplitude 1.5mm
Terminals strength	5N	
Solder ability	250°C $\pm 2^\circ\text{C}$ 3 ± 0.5 s	
Ambient Temperature	-40~85 °C	
Relative Humidity	85% (at 40°C)	
Weight	15g(Q type); 10g	

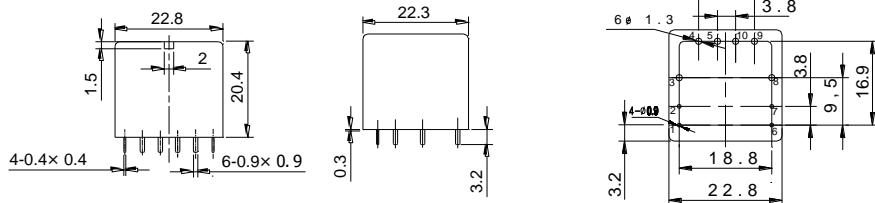
► ORDERING INFORMATION



► DIMENSIONS (UNIT: mm)

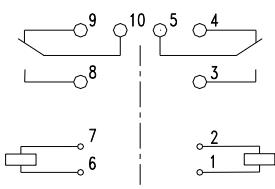


Standard Type



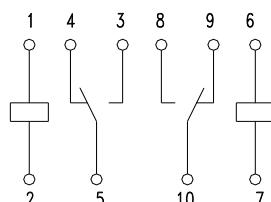
Quiet Type

Dimensions



(Standard Type)

Mounting (Bottom views)



(Quiet Type)

Wiring diagram(Bottom views)

mm	inch
0.3	0.012
0.4	0.016
0.55	0.022
0.9	0.035
1.3	0.051
1.5	0.059
1.6	0.063
2.0	0.079
2.2	0.087
2.5	0.098
3.2	0.126
3.6	0.142
3.75	0.148
3.8	0.150
5.0	0.197
9.5	0.374
11.25	0.443
13.75	0.541
13.8	0.543
17.4	0.685
18.2	0.717
18.8	0.740
20.4	0.803
22.3	0.878
22.8	0.898

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.