AUTOMOTIVE RELAY



Features

- 40A switching capability
- PCB terminals
- Two pin layout choices
- 1 Form A & 1 Form C contact arrangement
- Unenclosed and plastic sealed types available
- RoHS compliant
- Outline Dimensions:(26.0X21.0X20.5)mm

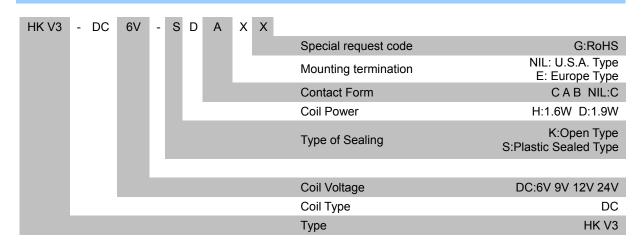
■ CONTACT DATA	
Contact Form	1A 1C
Contact Material	Silver Alloy
Contact Ratings	1A: 40A 14VDC 1C: 30A/40A 14VDC
Max Switching Voltage	30VDC
Max Switching Current	40A
Max Switching Power	560W
Contact Resistance	100MΩ(at 1A 6VDC)
Electrical Life	1X10 ⁵ Ops(30Ops/min)
Mechanical Life	1X10 ⁷ Ops(300Ops/min)

■ GENERAL D	ATA		
Insulation Resistance		100MΩ 500VDC	
Dielectric Strength	Between coil & contacts	750VAC 1min	
	Between open contacts	500VAC 1min	
Operate Time		Max. 10ms	
Release Time		Max. 10ms	
Temperature Range		- 40℃ to +85℃	
Shock Resistance	Functional	98m/s² (10g)	
	Destructive	980m/s² (100g)	
Vibration Resistance		10 to 55Hz 1.5mm	
Humidity		40% to 85% RH	
Weight		Approx. 21g	
Safety Standard			

■ COIL DATA								
Nominal Voltage (VDC)	Coil Resistance at 20 °C ± 10%(Ω)		Max Operate Voltage	Min Release Voltage	Max Applicate Voltage			
	1.6W	1.9W	(VDC)	(VDC)	(VDC)			
3	5.7	4.8	1.95	0.30	3.90			
5	15.7	13.2	3.25	0.50	6.50			
6	22.5	19	3.90	0.60	7.80			
9	50.7	42.7	5.85	0.90	11.70			
12	90	75.8	7.80	1.20	15.60			
24	360	303.2	15.60	2.40	31.20			

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ORDERING INFORMATION

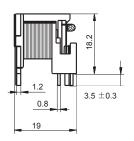


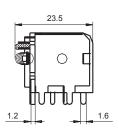
Notes: 1) If water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

2) For unenclosed type, because there is no cover protection, the products may be contaminated by particles during transpotration, assembly ot usage which may cause relay failure. So the products should be effectively protected at customer side. Ever-way suggest to use sealed type if no other special requirements.

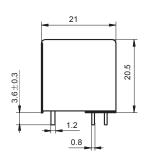
Outline Dimensions

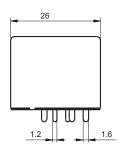
U.S.A. Open Type



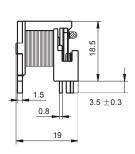


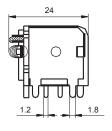
U.S.A. Plastic Sealed Type



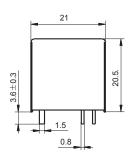


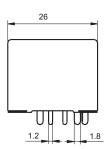
European Open Type





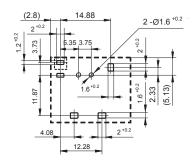
European Plastic Sealed Type



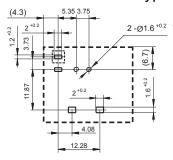


PCB Layout (Bottom view)

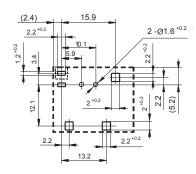
U.S.A. Open Type



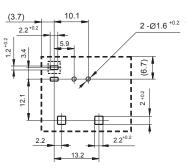
U.S.A. Plastic Sealed Type



European Open Type



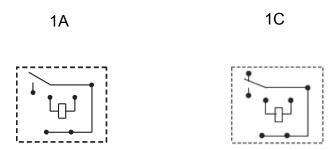
European Plastic Sealed Type



Remark: 1) The additional tin top is max. 1mm.

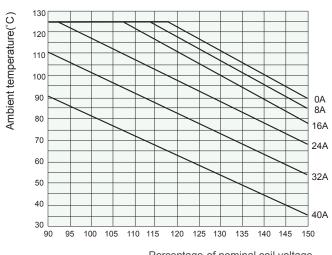
2) The tolerance without indicating is always ±0.1mm.

Wiring Diagram (Bottom view)



CHARACTERISTIC CURVES

1. Coil operating voltage range

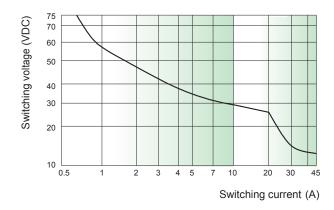


Percentage of nominal coil voltage

- 1) This chart takes sensitive unenclosed version as example.
- For the coil temperature rise which is measured by resistance is average value, we recommend the coil temperatute should be below 170°C under the different application ambient, different coil voltage and different load etc.
- 3) If the actual operating coil voltage is out of the specified range, please contact Ever-way for further details.

CHARACTERISTIC CURVES

2. Load limit curve (at 23°C)



- 1) This chart takes NO contact, Resistive load as example.
- 2) The load and electrical endurance tests are made according to "CONTACT DATA" parameters' table. If actual load voltage, current operate frequency, or ambient temperature is different from "CONTACT DATA" table, please arrange corresponding tests for confirmation.

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a tight position to choose the suitable product for their own application. If there is any query, please contact Ever-way for the technical service. However, it is the user's responsibility to determine which product should be used only.