HD1 POWER RELAY

Features

- 15A 250V、10A 250VAC switching capability
- 1 Form A and 1 Form C configurations
- Plastic sealed and flux proofed types available
- Outline dimensions: 19.0*15.2*15.2mm
- IEC60335-1 according type available
- Ambient temperature 105℃ according type available
- RoHS compliant

CHARACTERISTICS

Contact arrangement		1A、1C
Contact resistance[1)]		100mΩ Max.(at 1A 6VDC)
Contact material		$AgSnO_2$
Contact rating (Resistive load)		10A 250VAC/30VDC[2)] 15A 125VAC[2)]
Max. switching voltage		277VAC/30VDC
Max. switching current		15A
Max. switching power		2500VA/300W
Insulation resistance		1000MΩ(at 500VDC)
Dielectric strength	Between coil & contacts	1500VAC 1min
	Between open contacts	750VAC 1min
Operate time		≤10ms
Release time		≤5ms
Shock resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz～55Hz 1.5mm DA
Mechanical endurance		$1×10^7$ ops
Electrical endurance[3)]		1A type: $1×10^5$ ops(10A 250VAC, Resistive load, Room temp., 1s on 9s off) 1C type: $5×10^4$ ops(NO 5A/NC 5A 250VAC, Resistive load, Room temp., 5s on 5s off)
Ambient temperature		-40℃～85℃
Humidity		5% to 85% RH
Termination		PCB
Unit weight		Approx.10g
Construction		Plastic sealed, Flux proofed

Note: 1) The data shown above are initial values.

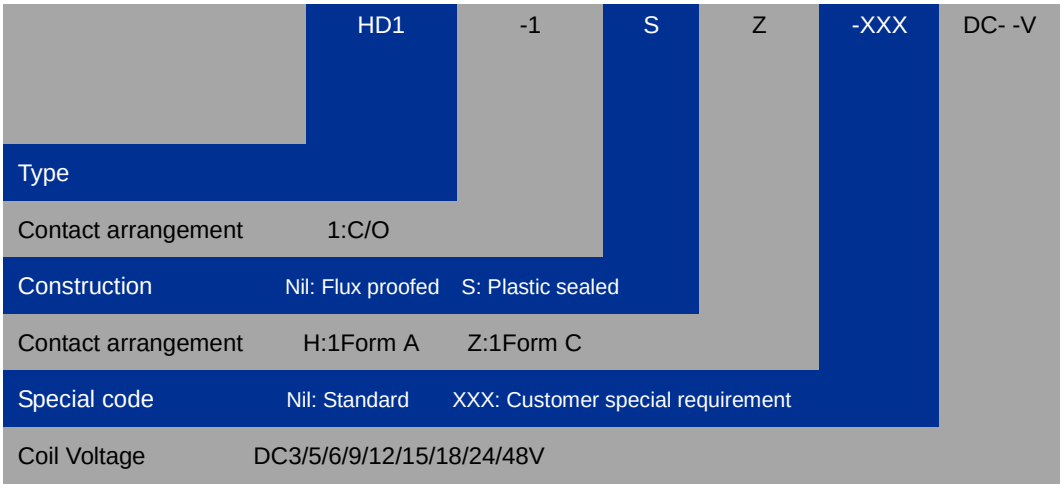
2) Applicable when NC is not energized with load.

3) For plastic type, the venting-hole should be opened in electrical endurance test.

COIL DATA (AT 23°C)

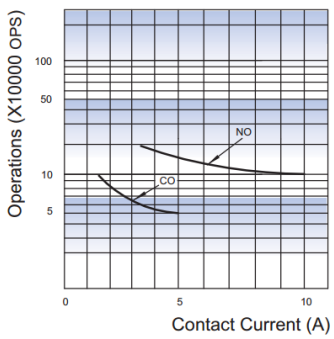
Nominal Voltage VDC	Operate Voltage VDC Max. [1)]	Release Voltage VDC Min. [1)]	Max. Voltage VDC [2)]	Nominal Current mA	Coil Resistance(Ω)	Coil Power
3	2.25	0.15	3.90	120	25×（1±10%）	Approx. 360mW
5	3.75	0.25	6.50	72	70×（1±10%）	
6	4.50	0.30	7.80	60	100×（1±10%）	
9	6.75	0.45	11.7	40	225×（1±10%）	
12	9.00	0.60	15.6	30	400×（1±10%）	
15	11.25	0.75	19.5	24	625×（1±10%）	
18	13.50	0.90	23.4	20	900×（1±10%）	
24	18.00	1.20	31.2	15	1600×（1±10%）	
48	36.00	2.40	62.4	7.5	6400×（1±10%）	

ORDERING INFORMATION

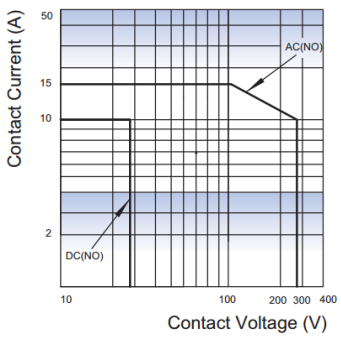


CHARACTERISTIC CURVES

ENDURANCE CURVE

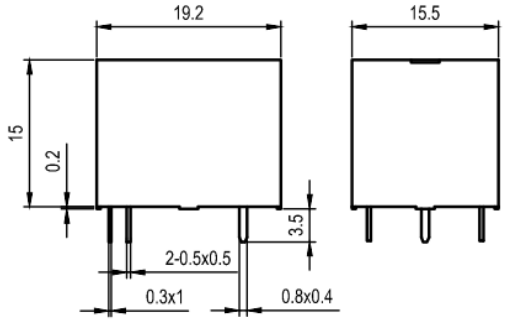


MAXIMUM SWITCHING POWER



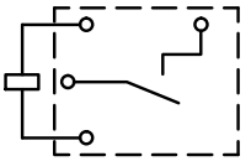
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT UNIT: mm

1A Outline Dimensions



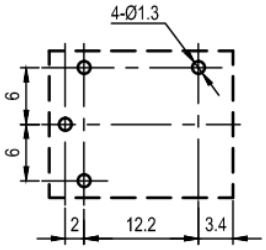
PCB Layout

(Bottom View)

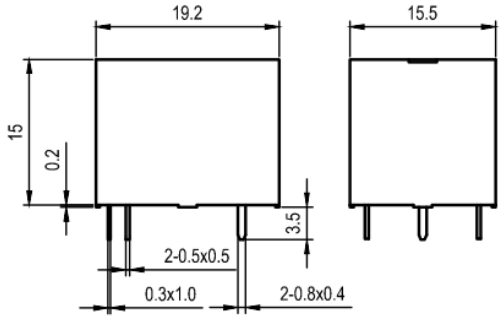


Wiring Diagram

(Bottom View)

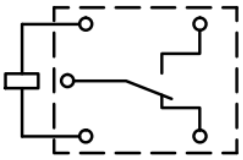


1C Outline Dimensions



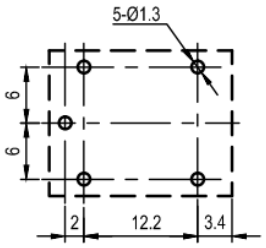
PCB Layout

(Bottom View)



Wiring Diagram

(Bottom View)



Remark: (1) In case of no tolerance shown in outline dimension: outline dimension≤1mm, tolerance should be ±0.2mm；
Outline dimension≥1mm and ≤15mm, tolerance should be ±0.3mm; outline dimension≥5mm, tolerance should be ±0.5mm。

(2) The additional tin top is Max. 1mm.

(3) The tolerance without indicating for PCB layout is always ±0.2mm.

DISCLAIMER

The specification is for reference only. Make sure that the ratings and performance characteristics of the product Provide a margin of safety for the system or equipment. Specifications 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 right position to choose the suitable product for their own application.