



File No.:E75887



FEATURES

- Small size
- Sealed Type

CONTACT RATINGS

Contact Arrangement	1C
Contact Resistance	≤100mΩ (0.1A 6VDC)
Contact Material	Silver Alloy(Gold Flash)
Contact Rating(Resistive)	0.5A/125VAC, 1A/30VDC
Max. Switching Voltage	125VAC/60VDC
Max. Switching Current	1A
Max. Switching Power	62.5VA/30W
Mechanical Life	1×10 ⁷ operations
Electrical Life	1×10 ⁵ operations

CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	1000VAC 1min
	Between open contacts	400VAC 1min
Operate time (at nomi. volt.)		≤5ms
Release time (at nomi. volt.)		≤5ms
Humidity		35% ~ 85% RH
Storage Condition		-40°C~+85°C
Operating Condition		-40°C~+70°C
UL Class B		Insulation System Class B
Shock Resistance		98m/s ²
Vibration resistance		10Hz ~ 55Hz 3.3mm DA
Unit weight		Approx. 2.2g
Construction		Sealed Type

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

2) Please find coil temperature curve in the characteristic curved below.

ORDERING INFORMATION

Model **HBS 12 S - XXXX**

Coil Voltage

S:Sensitive Type P:Standard Type

Customer code

COIL DATA

at 25°C

Standard Type

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
1.5	1.20	0.15	1.95	11.3
3	2.40	0.30	3.9	45
5	4.00	0.50	6.5	125
6	4.80	0.60	7.8	180
9	7.20	0.90	11.7	405
12	9.60	1.20	15.6	720
24	19.20	2.40	31.2	2880

Sensitive Type

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
1.5	1.20	0.15	1.95	15
3	2.40	0.30	3.9	60
5	4.00	0.50	6.5	167
6	4.80	0.60	7.8	240
9	7.20	0.90	11.7	540
12	9.60	1.20	15.6	960
24	19.20	2.40	31.2	3840

Note:***Max Allowable Voltage*: The relay coil can endure max allowable voltage for a short period time only.

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



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RELAYS

COIL

Coil Power	Standard Type: 200mW
	Sensitive Type: 150mW

SAFETY APPROVAL RATINGS

UL/CUL	1A/30VDC 0.3A/60VDC 0.5A/125VAC
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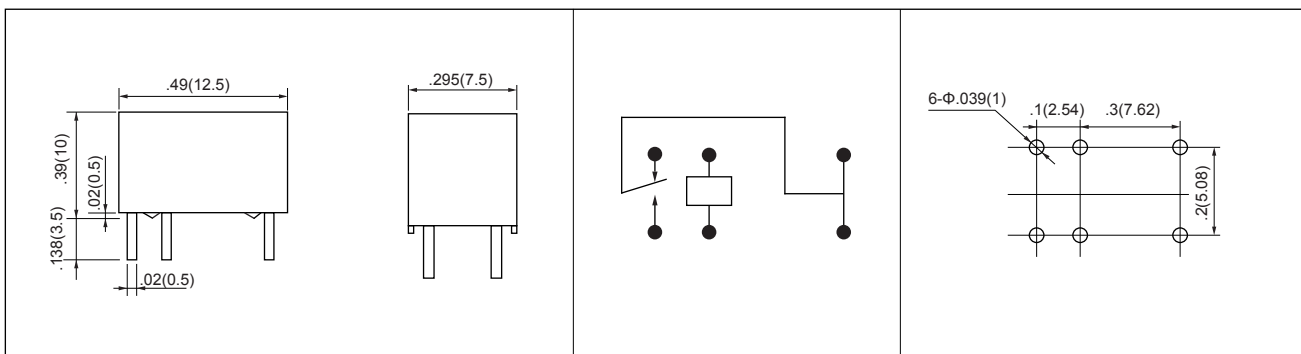
NOTES:

1. All values without specified temperature at 25°C.
2. The above only lists the typical loads. Other loads may be available upon request.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

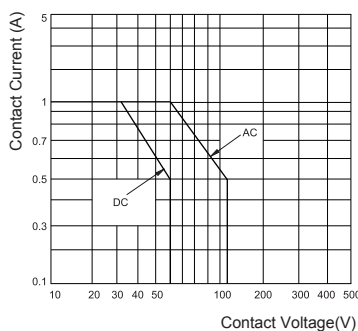
Outline Dimensions

Wiring Diagram
(Bottom view)PCB Layout
(Bottom view)

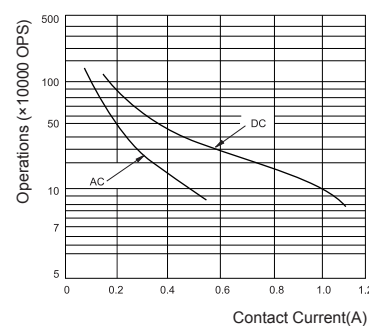
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



Notice:

- (1) To avoid using relay under strong magnetic field which will change the parameters of relays such as pick-up voltage and drop-out voltage.
- (2) The relay may be damaged because of falling or when shocking conditions exceed the requirement.
- (3) Regarding the plastic sealed relay, we should leave it cooling naturally until below 40°C after welding, then clean it and deal with coating, remarkably the temperature of solvents should also be controlled below 40°C. Please avoid cleaning the relay by ultrasonic, avoid using the solvents like gasoline, Freon, and so on, which would affect the configuration of relay or influence the environment.
- (4) About preferable condition of operation, storage and transportation, please refer to "Relays Terminology".

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