

BAS/BS/SC SERIES

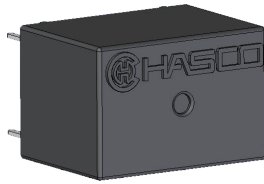
SIGNAL RELAY



File No.:E75887



File No.:R 50300956



FEATURES

- FCC Pt 68
- Small Package
- Sealed Type
- PC Pin
- Sensitive type and standard type are available

CONTACT RATINGS

Contact Arrangement	1C	
Contact Resistance	≤100mΩ (1A 24VDC)	
Contact Material	AgSnO	
Contact Rating(Resistive)	BAS111, BS211, SC211	BAS511
	N.O.: 2A/240VAC, 2A/30VDC N.C.: 1A/240VAC, 2A/30VDC	N.O./N.C.: 5A/120VAC 5A/30VDC
Max. Switching Voltage	240VAC/30VDC	120VAC/30VDC
Max. Switching Current	2A	5A
Max. Switching Power	480VA/60W	600VA/150W
Mechanical Life	5×10 ⁶ operations	
Electrical Life	See more details at "safety approval ratings"	

CHARACTERISTICS

Insulation Resistance		100MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. volt.)		≤10ms
Release time (at nomi. volt.)		≤5ms
Humidity		35% ~ 85% RH
Operation temperature		-40°C~+85°C
UL Class B		Insulation System Class B
Shock Resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz ~ 55Hz 1.5mm DA
Unit weight		Approx. 4g
Construction		Sealed Type, Dust Cover Type, Flux Tight Type

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

2) Please find coil temperature curve in the characteristic curves.

ORDERING INFORMATION

Model BAS 111 DC12 - GF - 1 - XXXX

Coil Power:111=Standard type
511=Standard type heavy load

Coil Voltage _____

GF:Gold Flash Contacts Blank:No Gold Flash

1:Dust Cover Type 2:Flux Tight Type Blank:Sealed Type

Customer Code _____

Model BS/SC 211 DC12 - GF - 1 - XXXX

Coil Power:211=Sensitive type

Coil Voltage _____

GF:Gold Flash Contacts Blank:No Gold Flash

1:Dust Cover Type 2:Flux Tight Type Blank:Sealed Type

Customer Code _____

Notes:

1. PC board assembled with dust cover type and flux tight type relays can not be washed and/or coated.
2. Dust cover type and flux tight type relays can not be used in the environment with dust, or H₂S, SO₂, NO₂ or similar gaseous environment etc.

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



* SINCE 1976 *

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RELAYS

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COIL DATA

at 25°C

Standard Type

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
3	2.1	0.3	3.3	20
5	3.5	0.5	5.5	56
6	4.2	0.6	6.6	80
9	6.3	0.9	9.9	180
12	8.4	1.2	13.2	320
24	16.8	2.4	26.4	1280
48	33.6	4.8	52.8	5120

Sensitive Type

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance $\Omega \pm 10\%$
3	2.1	0.3	4.8	45
5	3.5	0.5	8.0	120
6	4.2	0.6	9.6	180
9	6.3	0.9	14.4	400
12	8.4	1.2	19.2	700
24	16.8	2.4	38.4	2800

Note:

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

COIL

Coil Power	Standard Type: 450mW
	Sensitive Type: 200mW

SAFETY APPROVAL RATINGS

UL&CUL	BAS111 BS211 SC211	N.O.:2A 240VAC, 6×10^3 OPS N.O.:2A 30VDC, 6×10^3 OPS N.C.:2A 30VDC, 6×10^3 OPS N.C.:1A 240VAC, 6×10^3 OPS N.O./N.C.:2A 240VAC, 6×10^3 OPS N.O./N.C.:2A 30VDC, 6×10^3 OPS N.O./N.C.:1A 240VAC, 1×10^5 OPS
	BAS511	N.O./N.C.:5A 120VAC, 6×10^3 OPS N.O./N.C.:5A 30VDC, 6×10^3 OPS N.O.:2A 120VAC, 6×10^3 OPS N.O.:2A 30VDC, 6×10^3 OPS N.O./N.C.:3FLA 12VDC, 1×10^4 OPS
TÜV	BAS111 BS211	N.O.:1A 240VAC, 5×10^4 OPS N.O.:2A 125VAC, 1×10^4 OPS N.C.:2A 30VDC, 1×10^4 OPS
	BAS511	N.O.:5A 120VAC; N.C.:5A 120VAC, 1×10^4 OPS N.O.:5A 30VDC; N.C.:5A 30VDC, 1×10^4 OPS

NOTES:

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

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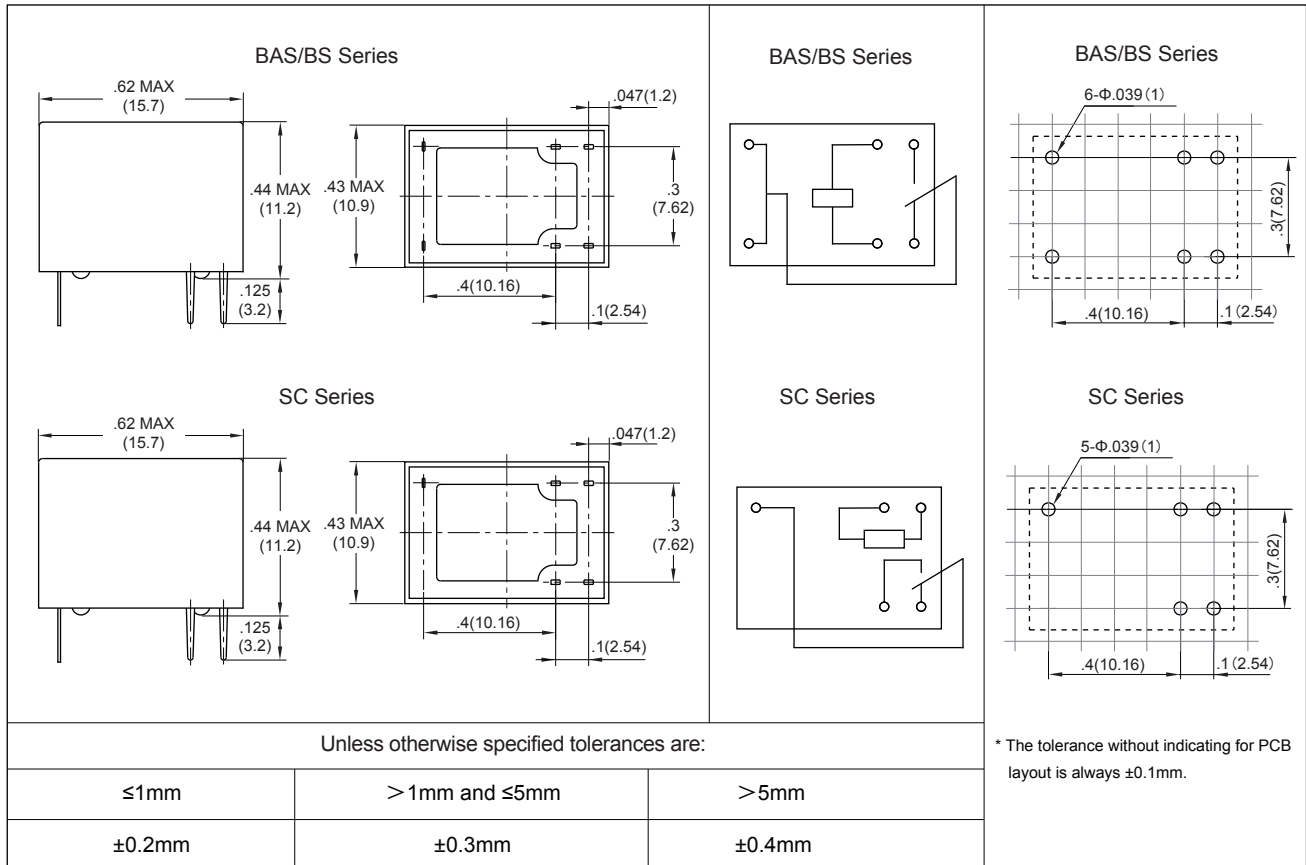
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

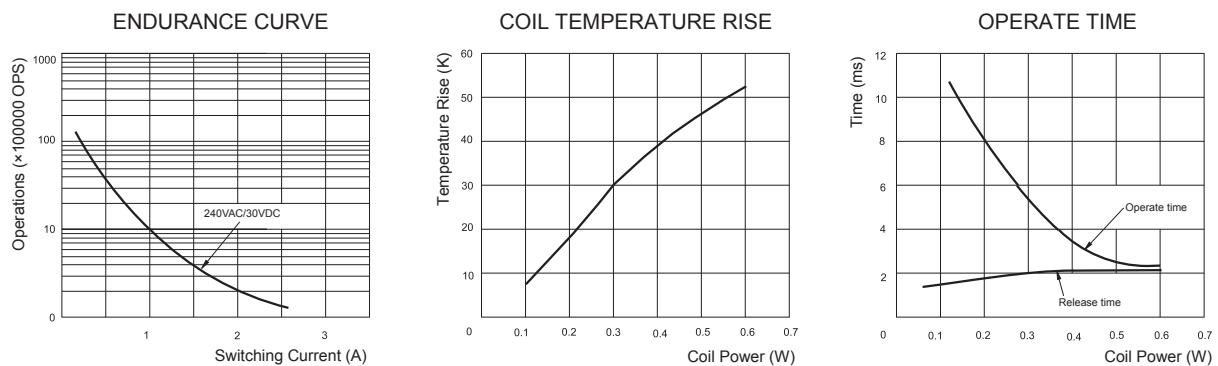
Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)



CHARACTERISTIC CURVES



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PACKAGING SPECIFICATION

TUBE	INNER CARTON	OUTER CARTON	OUTER CARTON SIZE
25PCS	2000PCS	4000PCS	L475mm*W275mm*H290mm

APPLICATION GUIDELINES

Automatic Wave Soldering

- * Wave solder is the optimum method for soldering.
- * Adjust the level of solder so that it does not overflow onto the top of the PC board.
- * Unless otherwise specified, solder under the following conditions depending on the type of relay.

Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Soldering temperature 255°C-265°C
90±5 seconds	<3°C/s	<4°C/s	3~5s

Hand Soldering

- * Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- * Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- * Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

Discard the dropped product

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