

INDUSTRIAL RELAYS

The SB series has a high sensitive 0.20W nominal operating power.

UL & CUL File #223388

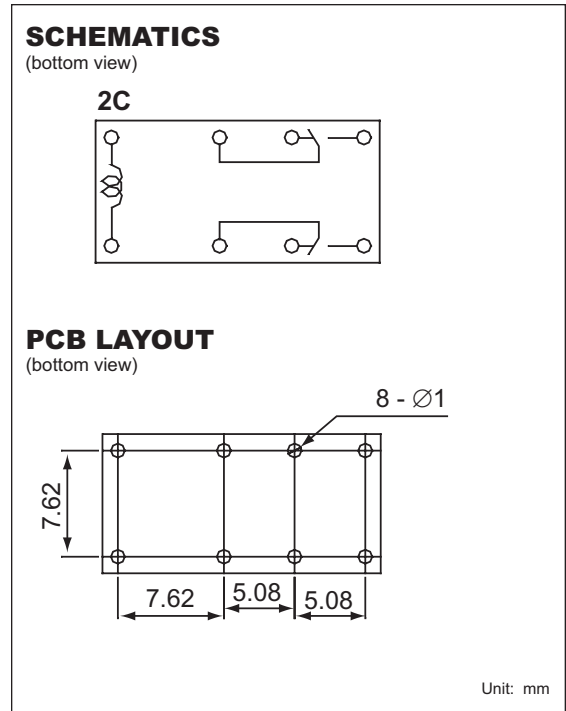
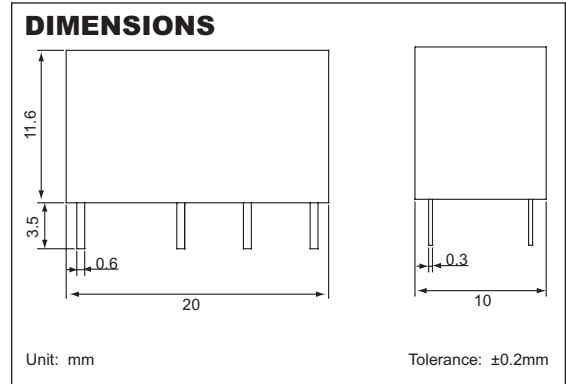
FEATURES

1. High sensitivity 0.20W.
2. High mounting density on PCB by small size and light weight.
3. Sealed or unsealed types available.

ORDERING INFORMATION

SB 2C - 5 H S P
(1) (2) (3) (4) (5) (6)

- | | |
|---|--|
| <p>(1) Basic Designation
SB = SB Series</p> <p>(2) Contact Arrangement
2C = 2 Form C</p> <p>(3) Coil Voltage
3~48V</p> | <p>(4) Coil Sensitivity
Nil = 0.36W
H = 0.20W</p> <p>(5) Enclosure
Nil = Unsealed type
S = Sealed type</p> <p>(6) RoHS Compliance
P = RoHS
Nil = Standard</p> |
|---|--|



COIL RATINGS (AT 20°C)

Nominal Operating Power/ Coil Sensitivity	Coil Nominal Voltage (VDC)	Coil Resistance $\Omega(\pm 10\%)$	Pick-up Voltage (VDC) max.	Drop-Out Voltage (VDC) min.	Max. Allowable Voltage
Coil Sensitivity Nil = 0.36W	3	25	2.25	0.15	130% of nominal voltage
	5	70	3.75	0.25	
	6	100	4.50	0.30	
	9	225	6.75	0.45	
	12	400	9.00	0.60	
	24	1600	18.0	1.20	
Coil Sensitivity H = 0.20W	48	4600	36.0	2.40	130% of nominal voltage
	3	45	2.25	0.15	
	5	125	3.75	0.25	
	6	180	4.50	0.30	
	9	405	6.75	0.45	
	12	720	9.00	0.60	
	24	2880	18.0	1.20	
	48	4600	36.0	2.40	

CONTACT RATINGS

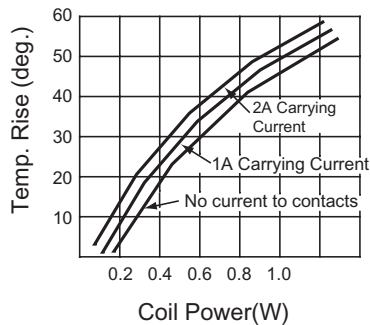
Contact Arrangement	2C
Max. Switching Power	125VA, 88W
Max. Switching Voltage	250VAC, 220VDC
Max. Switching Current	2A
Max. Carrying Current	3A
Contact Resistance (By voltage drop 6V 1A)	50mΩ max.
UL/ C-UL Rating	1A / 120VAC
Resistive Load (cos φ = 1)	1A / 24VDC
Contact Material	silver alloy

CHARACTERISTICS

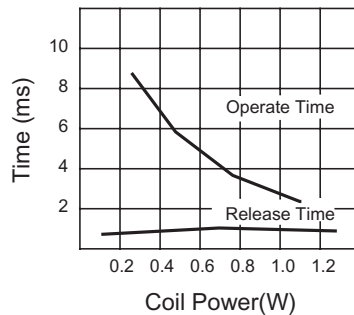
Electrical Life (at 20cpm)	1 x 10 ⁵ min.
Mechanical Life (at 180cpm)	1 x 10 ⁸ min.
Initial Insulation Resistance	Min. 100MΩ 500VDC
Operate Time	10ms max.
Release Time	4ms max.
Initial Breakdown Voltage	50/60Hz 750VAC 1 min. (between open contacts) 50/60Hz 1000VAC 1 min. (between coil & contact) 50/60Hz 1000VAC 1 min. (between contact sets)
Vibration Resistance	Functional: 10 to 55Hz at double Amplitude of 1.0mm Destructive: 10 to 55Hz at double Amplitude of 1.5mm
Shock Resistance	Functional: Min. 50G Destructive: Min. 100G
Ambient Temperature	-30°C ~ +70°C
Temperature Rise (max.)	65°
Operating Humidity	45 to 85% RH
Unit Weight	Approx. 5.4g

REFERENCE DATA

Coil Temperature Rise



Operate Time/ Release Time



Life Expectancy

