



M1BS

E158859

 $20.0 \times 9.8 \times 11.0$

Features

■ DIL Pitch Terminals .High Sensitivity 。

 \bullet Conforms to FCC Part 68 1.5kV Surge and Dielectric 1000VAC $_{\circ}$

• Fully sealed (immersion clearable).

■ High Reliability bifurcated Contact.

■ Application for Telecommunication Equipment、Office Equipment、 Security Alarm Systems、 Measuring instruments、 Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control o

Contact Data

2C Contact Arrangement Contact Material PdRu

Contact Rating (resistive) 2A/30VDC; 0.6A/125VAC

Max. Switching Power 60W 125VA Min. Switching load: 1mA/1V (Reference Value)

Max. Switching Voltage 220VDC 250VAC Max. Switching Current:2A Contact Resistance or ≤100mΩ Item 3.12 of IEC255-7 Voltage drop $3\times 10^5 \quad (Ag~Alloy~:~1\times 10^5~)$ Operation Electrical Item 3.30 of IEC255-7 Item 3.31 of IEC255-7

life Mechanical 10⁸

CAUTION:

Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

Coil voltage VDC		Coil resistance	VDĊ(max) VD	release voltage VDC(min)	Coil power	Operate Time	Release Time
Rated	Max.	Ω±10%	(70% of rated voltage)	(10% of rated voltage)	W	ms	ms
3	4.2	16	2.1	0.3	0.56		
5	7.0	45	3.5	0.5	0.56		
6	8.4	66	4.2	0.6	0.55		
9	12.3	140	6.3	0.9	0.58	≪3	≪1.5
12	17.4	280	8.4	1.2	0.52		
24	34.0	1070	16.8	2.4	0.54		
48	64.9	3900	33.6	4.8	0.59		
3	4.9	22.5	2.1	0.3	0.4		
5	8.1	62.5	3.5	0.5	0.4		
6	9.7	90	4.2	0.6	0.4		
9	14.5	203	6.3	0.9	0.4	≪3	≪1.5
12	19.4	360	8.4	1.2	0.4		
24	38.9	1440	16.8	2.4	0.4		
48	77.8	5760	33.6	4.8	0.4		

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.



Characteristics

Electrostatic capacitance Between open Contacts Approx.0.7pF Item 3.41 of IEC255-5 Between coil & Contacts Approx.1.0pF Item 3.41 of IEC255-5 Between Contact Poles Approx.0.9pF Item 3.41 of IEC255-5 Insulation Resistance 1000M Ω min (at 500VDC) Item 7 of IEC255-5

Dielectric Strength

Between open Contacts
Between coil & Contacts
Between Contacts
Detween Contact Poles

1000VAC 1min

Item 6 of IEC255-5
Item 6 of IEC255-5
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Item 6 of IEC255-5

Surge Withstand Voltage

Between open Contacts 1500V FCC68
Between coil & Contacts 1500V FCC68
Between Contact Poles 1500V FCC68

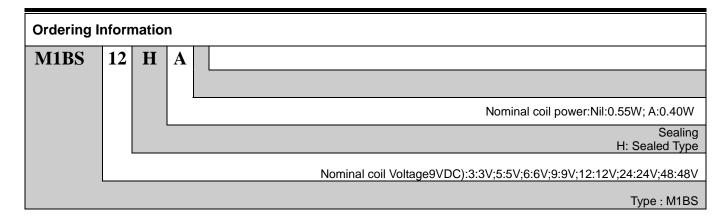
Shock resistance Functional:100m/s² 11ms; IEC68-2-27 Test Ea

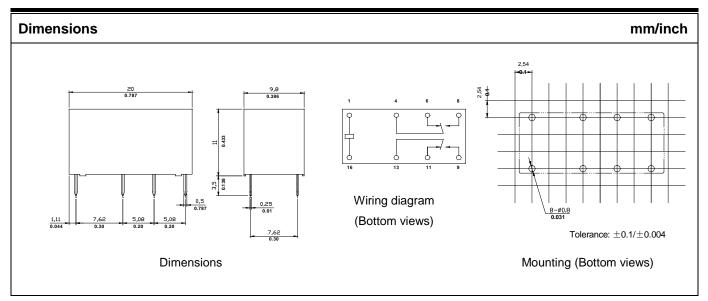
Vibration resistance 10~55Hz Double amplitude Functional: 1.5mm Endurance:5mm IEC68-2-6 Test Fc

Terminals strength 5N IEC68-2-21 Test Ua1 Solderability 230 $^{\circ}$ ±2 $^{\circ}$ 10 ±0.5s IEC68-2-20 Test Ta method 1 -40~65 $^{\circ}$ (-40~149 $^{\circ}$ F)

Temperature Range (-40~70° for 0.4W Coil)

Weight 4.5g





NOTES 1). Dimensions are in millimeter.

2). Inch equivalents are given for general information only.