



BM94

29X29X26.5(+16)mm

Product Features

- ◆ Miniature size.
- ◆ Heavy contact load capacity up to 80A.
- ◆ Installation: Plug-in and PCB pins.
- ◆ Professional and widely used automotive relays

Designation

BM94 — **C** — **80** — **12VDC**

1 2 3 4

1 Model: BM94

2 Contact Form: A: 1A; B: 1B; C: 1C

3 Contact Load Capacity: 80A

4 Nominal Coil Voltage: 12VDC, 24VDC

Contact Rating

Contact Form	A: 1A B: 1B C: 1C		
Contact Material	AgSnO ₂		
Contact Load Capacity	1A: 80A/14VDC		
	1B: 60A/14VDC		
	1C: NC 60A/14VDC; NO 80A/14VDC		
Switching Power Max.	1120W		
Switching Voltage Max.	75VDC	Switching Current Max.: 80A	
Contact Resistance Max.	≤30mΩ	IEC 61810-7 4.12	
Life expectancy	Electrical	10 ⁵	IEC 61810-7 4.30
	Mechanical	10 ⁷	IEC 61810-7 4.31

Coil Rating

NO.	Coil Voltage(VDC)		Coil Resistance $\Omega \pm 10\%$	Pick up (VDC) Max.(65% of Rated Voltage)	Drop out (VDC) Min.(10% of Rated Voltage)	Power (W)	Operate Time (ms)	Release Time (ms)
	Rated	Max.						
006	6	7.8	20	3.90	0.60	1.80	≤ 7	≤ 5
012	12	15.6	80	7.80	1.20			
024	24	31.2	320	15.60	2.40			

Note:1.Realys will be damaged if coil voltage lower than rated voltage.

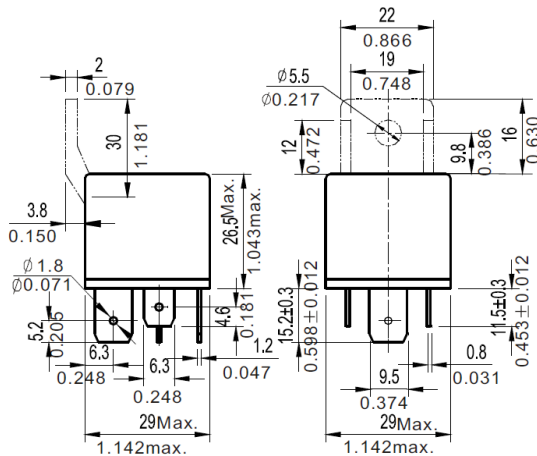
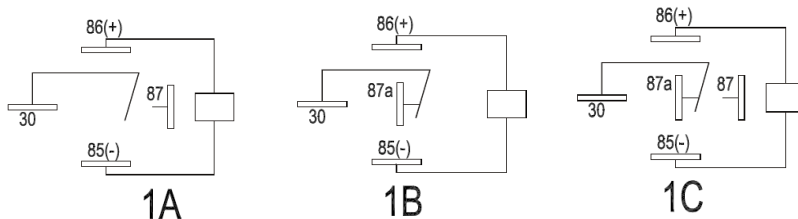
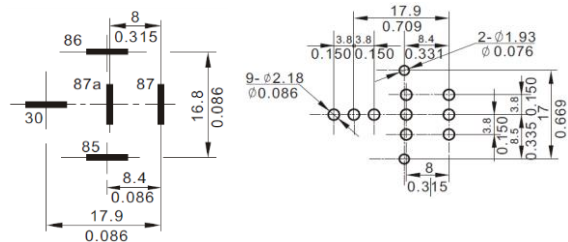
2.The voltage of pick up and drop out is only for inspection, not for application.

Technical Rating

Insulation Resistance	Min.100M Ω (500VDC)	IEC 60255-5
Dielectric Strength		
Between Contacts	50Hz 500V	IEC 60255-5
Between Coil&Contact	50Hz 500V	IEC 60255-5
Shock Resistance	147m/s 2 11ms	IEC 68-2-27 test Ea
Vibration Resistance	10Hz~40Hz double amplitude 1.5mm	IEC 68-2-6 test Fc
Terminal Strength	8N 4N(PC pins)	IEC 68-2-21 test Ua2
Weldability	235°C $\pm 2^\circ\text{C}$ 3s ± 0.5 s	IEC 68-2-20 test Ta way 1
Ambient Temperature	- 40°C~105°C	
Relative Humidity	85%(40°C)	IEC 68-2-3 test Ca
Weight	Approx.46g(Plug-in)	

Dimensions

Unit:mm

Outline Dimension

Bottom View Layout
Plug in Type
PCB Type

Wiring Diagram(Bottom View)