

BSTQX-4110M

1 Cubic Inch 4PDT Coil Transient Suppression
Sealed Electromagnetic Relay

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1. Product Overview

- BSTQX-4110M equipped with coil transient suppression, BSTQX-4010M without coil transient suppression, both have identical external dimensions, but different ordering markings and corporate standards.
- Permanent magnet excitation balance force structure.
- 1 Cubic inches.
- 4 PDT.
- Load current from 0.1A to 10A.
- Anti vibration and shock.
- Widely use can to transfer signal and lines in Aerospace and aviation fields.
- Adopted military standard: MIL-PRF-83536G.

2. Product Features

No.	Item	Performance
1	Contact type	4Z
2	Dimesion	26mm×26mm×26mm(max)(1 Cubic inches)
3	Weigh	≤ 90g
4	Leakage rate	≤ 1×10 ⁻³ Pa·cm ³ /s
5	Internal moisture content	≤ 5000 ppm

3. Load Characteristics

Load type	Contact Voltage					Life
	28Vd.c.	115Va.c. 400Hz Single phase	115Va.c. 50/60Hz Single phase	115/200Va.c. 400Hz Three phase	115/200Va.c. 50/60Hz Three phase	
Resistive load	10	10	2.5	10	2.5	10×10 ⁴
Inductive load	8	8	-	8	-	2×10 ⁴
Inductive load	-	-	2.5	-	2.5	1×10 ⁴
Motor load	4	4	2.0	4	2.0	10×10 ⁴
Lamp load	2	2	1.0	-	-	10×10 ⁴
Over load	Resistive: 28 Vd.c.(0.2s±0.05s)			40 A		50 cycles
Limit	Resistive: 28 Vd.c.(0.2s±0.05s)			50 A		50 cycles

4. Environment Characteristics

No.	Item	Performance	
1	Environment grade	I	II
2	Temperature range (°C)	-70~+125	
3	Humidity	40°C ±2°C 90%~95%	
4	Low atmospheric range (kPa)	4.39	
5	Shock	Acceleration (m/s ²)	980
		Pulse lasting time (ms)	1960
6	Sin-Vibration	Frequency range (Hz)	6
		Acceleration root-mean-square values (m/s ²)	3
7	Random Vibration	Acceleration spectral density ((m/s ²) ² /Hz)	10~2000
		Acceleration root-mean-square values (m/s ²)	10~3000
8	Acceleration (m/s ²)	490	196
		207.1	294

5. Product Specifications

No.	Item	Performance
1	Coil consumption(W)	≤ 3
2	Contact resistance(Ω)	Initial Value
		After life
3	Operating time (ms)	≤ 0.05
4	Releasing time (ms)	≤ 0.15
5	Bounce time (ms)	≤ 15
6	Insulation resistance (MΩ) Test voltage:500V(1±10)d.c.	Under normal condition
		Under high temperature and high humidity and afterlife
7	Dielectric withstanding voltage Vr.m.s(50Hz)	≥ 100
		≥ 50
8	Transiently suppressed coil back electromotive force	Under normal condition
		Under low atmospheric

6. Coil Characteristics

No.	Coil voltage		25°C			All temperature range	
	Nominal (Vd.c.)	Maximum (Vd.c.)	Coil Resistance (1±10%)Ω	Maximun operating volt-age (Vd.c.)	Maximun release voltage (Vd.c)	Maximun operating voltage (Vd.c.)	Minimun drop out voltage (Vd.c.)
028	28.0	29.0	290	15.5	2.00	23.0	1.50

Special coil types available upon to request

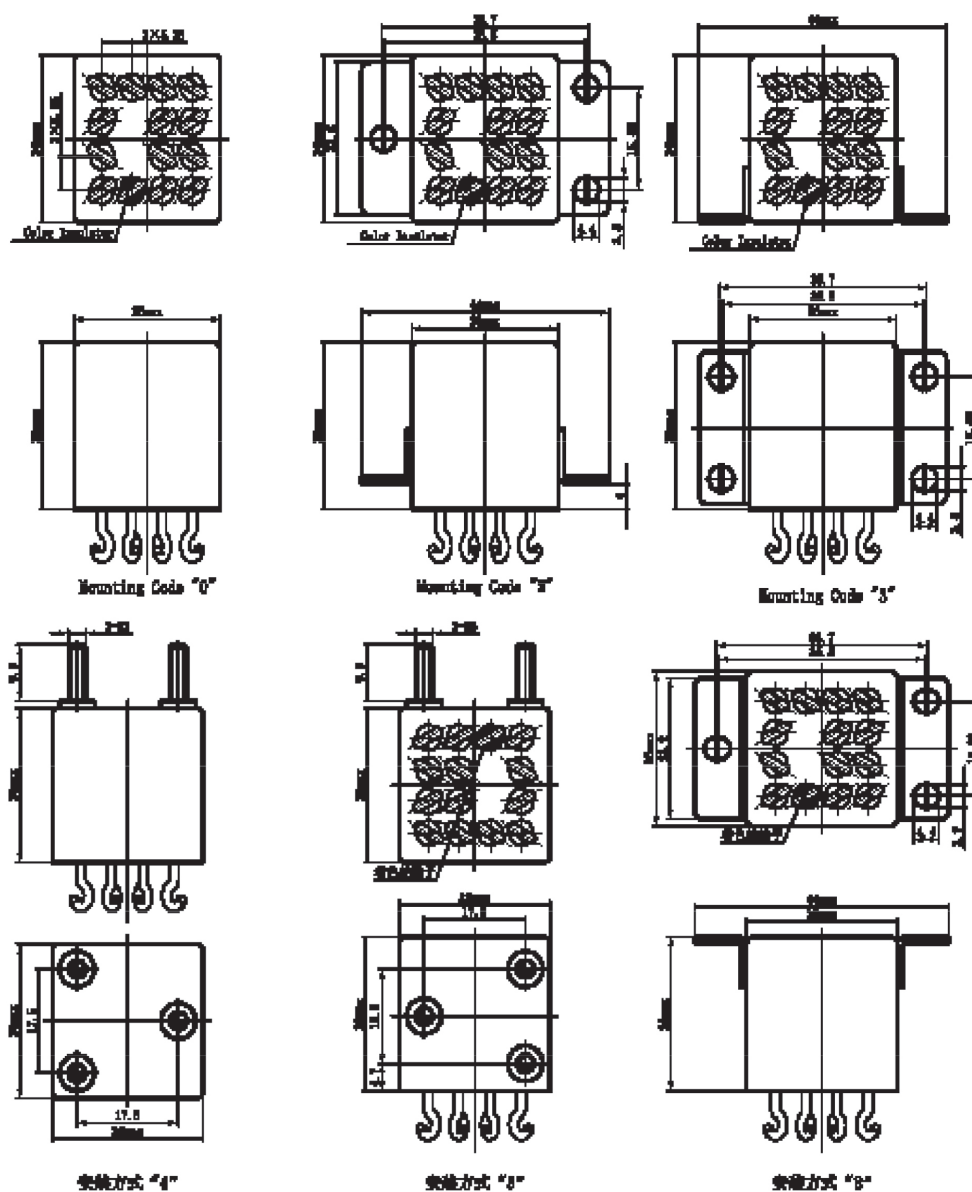
No.	Coil voltage		25°C			All temperature range	
	Nominal (Vd.c.)	Maximum (Vd.c.)	Coil Resistance (1±10%)Ω	Maximun operating volt-age (Vd.c.)	Maximun release voltage (Vd.c)	Maximun operating voltage (Vd.c.)	Minimun drop out voltage (Vd.c.)
012	12.0	14.5	70	6.6	0.75	10.0	0.50
006	6.0	7.3	18	3.5	0.40	5.0	0.25

7. Product Ordering information

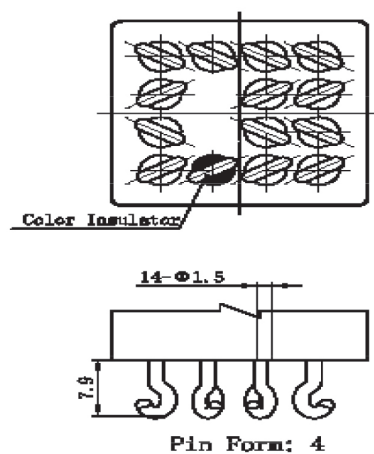
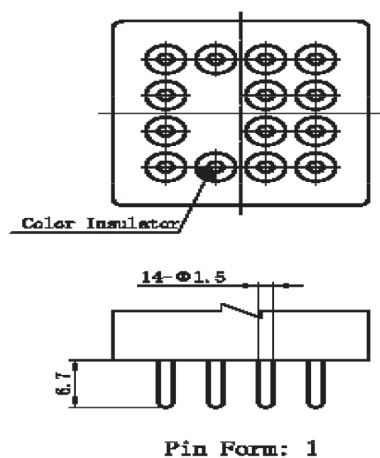
BSTQX-4110M - 028 3 4 1
① ② ③ ④ ⑤

- ① Type
- ② Part
- ③ Mounting code
- ④ Terminal
- ⑤ Environmental level

8. Mounting types



9. Terminal types



10. Bottom View

