

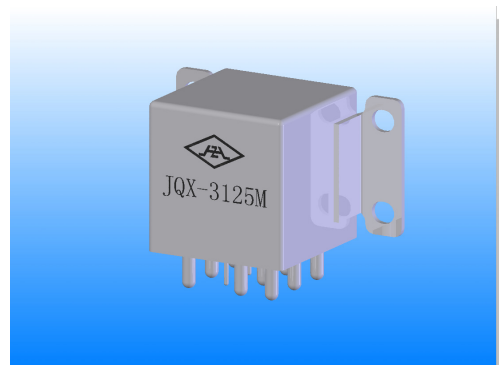
Cubic Inch Permanent Magnet Excited Series Sealed Electromagnetic Relay



JQX-3125M 1 Cubic Inch 3PDT Coil Transient Suppression Sealed Electromagnetic Relay
JQX-3025M 1 Cubic Inch 3PDT Sealed Electromagnetic Relay

Product introduction

- JQX-3125M equipped with coil transient suppression, JQX-3025M 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
- 3 PDT
- Load current from 0.1A to 25A
- Anti vibration and shock
- Widely use can to transfer signal and lines in aerospace and aviation fields
- Adopted military standard: MIL-PRF-83536G



JQX-3125M
JQX-3025M

General Characteristics

No.	Item	Performance
1	Cpmtact type	3Z
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

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	25	25	-	25	-	5×10 ⁴
Inductive load	12	-	-	-	-	1×10 ⁴
Inductive load	-	15	-	15	-	2×10 ⁴
Motor load	10	10	-	10	-	5×10 ⁴
Lamp load	5	5	-	5	-	5×10 ⁴
Over load	Resistive:28 Vd.c.(0.2s±0.05s)			50 A		50 cycles
Limit	Resistive:28 Vd.c.(0.2s±0.05s)			60 A		50 cycles



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Environment Characteristics

No.	Item		Performance	
1	Environment grade		I	II
2	Temperature range(℃)		-65~+125	
3	Humidity		40℃ ±2℃	90%~95%
4	Low atmospheric range(kPa)		4.39	
5	Shock	Acceleration(m/s ²)	980	1960
		Pulse lasting time(ms)	6	6
6	Sin-Vibration	Frequency range(Hz)	10~2000	10~3000
		Acceleration root-mean-square values (m/s ²)	196	294
7	Random Vibration	Acceleration spectral density ((m/s ²) ² /Hz)	30	40
		Acceleration root-mean-square values (m/s ²)	207.1	239.1
8	Acceleration(m/s ²)		490	

Specifications

No.	Item		Performance
1	Coil consumption(W)		≤ 3.5
2	Contact resistance(Ω)	Initial Value	≤ 0.01
		After life	≤ 0.15
3	Operating time(ms)		≤ 15
4	Releasing time(ms)		≤ 15
5	Bounce time(ms)		≤ 1.5
6	Insulation resistance(MΩ) Test voltage:500V(1±10)d.c.	Under normal condition	≥ 100
		Under high temperature and high humidity and after life	≥ 50
7	Dielectric withstanding voltage Vr.m.s(50Hz)	Under normal condition	1000
		Under low atmospheric	250
8	Transiently suppressed coil back electromotive force		≤ 42

Coil Characteristics

No.	Coil voltage		25℃			All temperature range	
	Nominal (Vd.c.)	Maximum (Vd.c.)	Coil Resistance (1±10%)Ω	Maximun operating voltage (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	21.0	1.50

■ Special coil types available upon to request.

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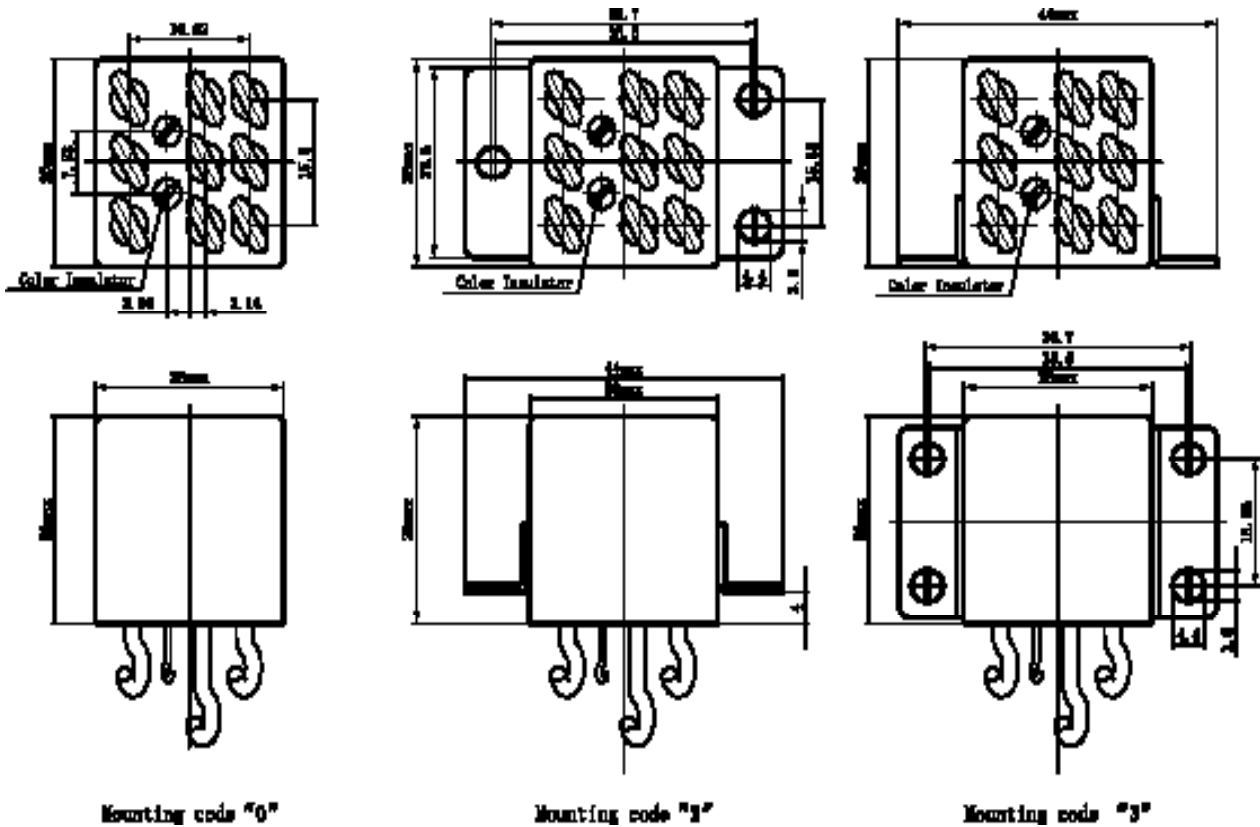


Order information

JQX-3125M - 028 3 4 I
① ② ③ ④ ⑤

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

Mounting types

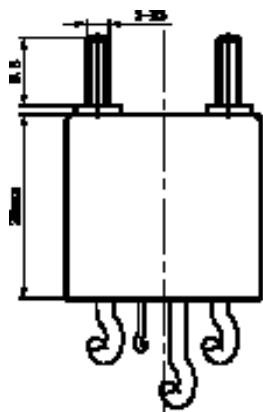


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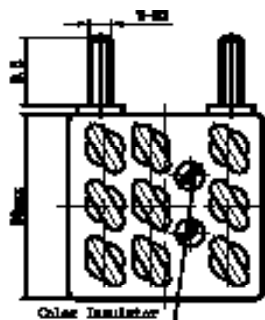


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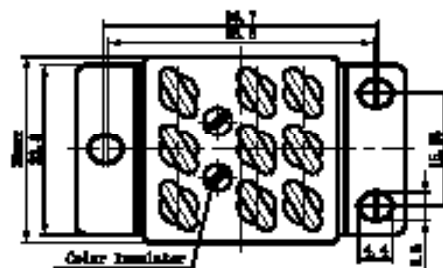
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Mounting code "4"

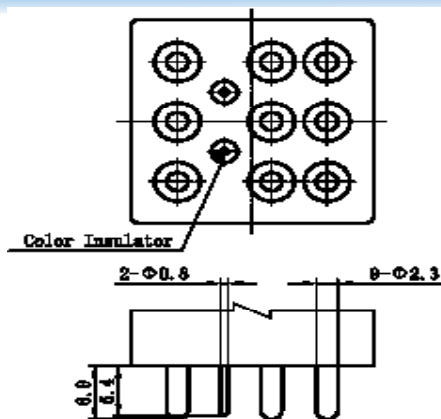


Mounting code "5"

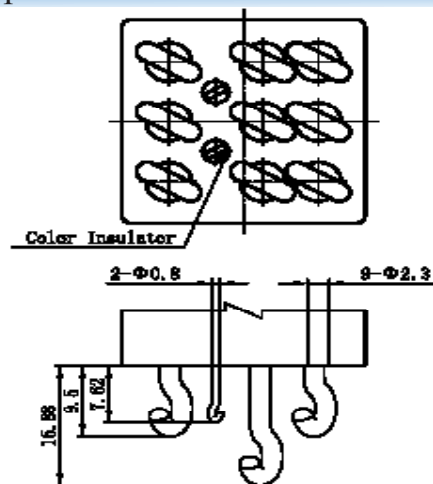


Mounting code "8"

Terminal types

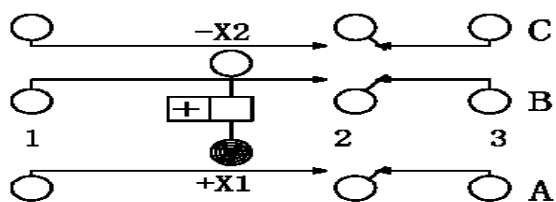


Pin Form, 1

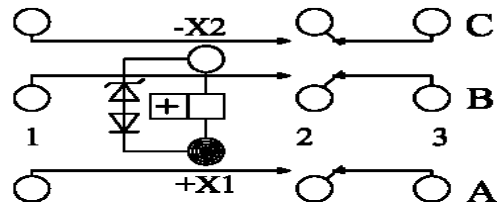


Pin Form, 4

Bottom View



JQX-3025M



JQX-3125M