



3JB20-3

3JB20-3 Space & MIL-Spec Relay

- This product is one of the earliest military standard varieties, and all technical indicators meet the requirements of general specification GJB1461. The product is standard cubic inch shape, with small size, high environmental grade and long switching life. Suitable for use as switching circuits in aerospace and avionics systems.

Category: Magnetic Latching Relay

Description

3JB20-3 Miniature Magnetic Latching Relay

Environmental Characteristics

Environmental Characteristics

No.	Parameter		Environmental Specification			
1	Quality Grade		Ⓐ, (G)		GJB	Aerospace (CAST)
			II	IV		
2	Temperature Range	(°C)	-55 ~ 125		-65 ~ 125	
3	Relative Humidity		(40±2) °C, 90% ~ 95%			
4	Low Pressure	(kPa)	0.67 ~ 0.27		0.67 ~ 0.13	
5	Sinusoidal Vibration	(Hz)	10 ~ 2000			
		(m/s²)	147	196		
6	Random Vibration	(m/s²)²/Hz	30			
7	Shock	(m/s²)	490	735	1960	
8	Acceleration	(m/s²)	490	735		

Main Characteristics

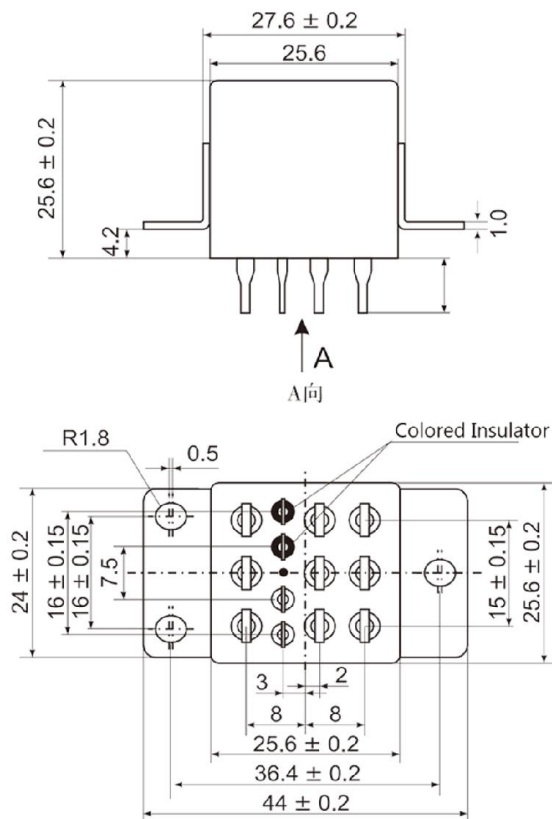
(The following table list GJB product indicators, other quality levels, please refer to their respective specifications)

Contact arrangement		3PDT	Operating Time(ms)		≤10
Coil Power (W)		2.9	Release Time(ms)		
Leak Rate (Pa.cm ³ /s)		≤1×10 ⁻³	Load Ratings	Resistive	15A, 28 Vd.c.
Contact Resistance(Ω)	Initial	≤0.01		Inductive	7A, 28 Vd.c.
	After Life	≤0.012		Lamp	3A, 28 Vd.c.
Insulation	Normal	≥500(500Vd.c.)		Motor	6A, 28 Vd.c
Resistance (MΩ)	High Temp./Humidity	≥50(500Vd.c.)	Overload Rating		Resistive, 60A, 28V d.c.
Dielectric	Normal	1050 Vr.m.s			

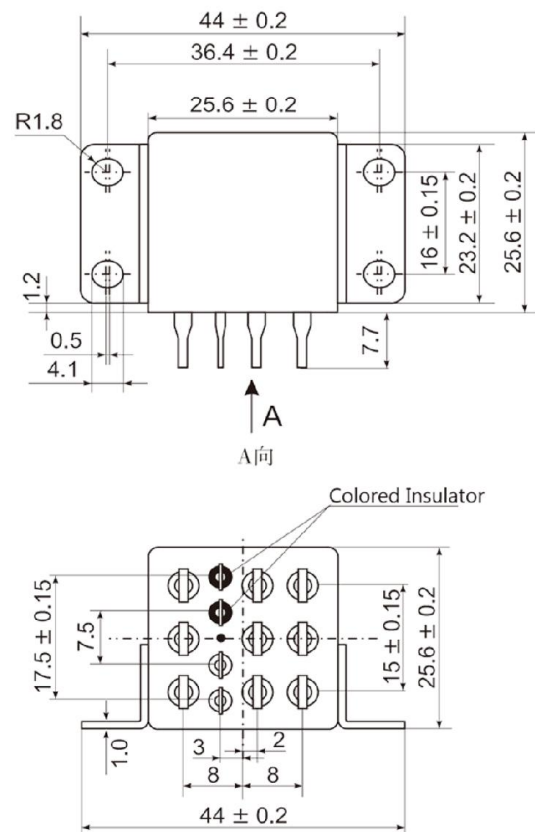
Strength (50Hz)	Low pressure		500 Vr.m.s	Life Time (Cycles)	1×10^5
	Weight(g)		≤ 70	Failure Rate	Y level

Electrical Specification (Vd.c.)

No.	Coil Voltage		25°C			Overall temperature range	
	Normal	Max	Coil resistance	Pick-up Voltage	Drop-out Voltage	Pick-up Voltage	Drop-out Voltage
			($1 \pm 10\%$) Ω	max	(min)	max	(min)
028	28	31	270	18	—	23	—

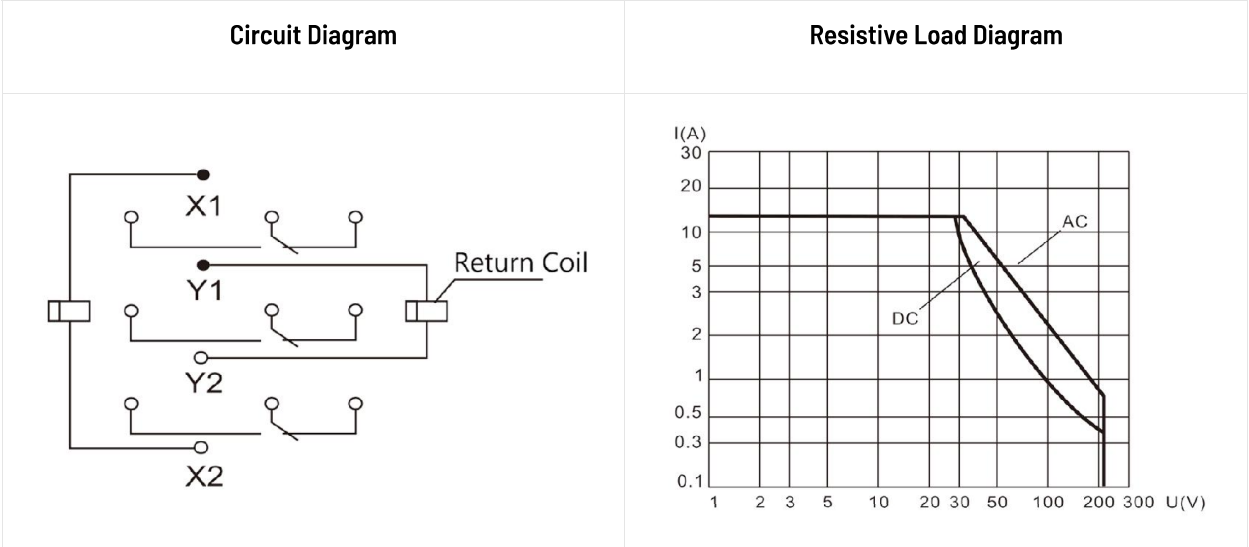
Dimensions

Mounting Style: C (2)



Mounting Style: B (3)

Note: Vibration sensitive direction: Vertical



Order Mark

- GJB standard product:

Example: J1461-92/ Q/R Y20002-99-028Y/C3 3JB20-3

J	1461-92	/	Q/R Y20002-99	–	028	Y	/	C	3	3JB20-3
Military sign	General specification		Detailed specification No.		Coil voltage	Failure rate		Mounting style	Terminal type	Product number

Detailed specification: Q/R Y20002-1999

- CAST grade product:

Example: J1461/ Q/R Y20002-99-028 Y/C3 3JB20-3

J	1461	/	Q/R Y20002-99	–	028	Y	/	C	3	3JB20-3
Military sign	General specification		Detailed specification No.		Coil voltage	Failure rate		Mounting style	Terminal type	Product number

Detailed specification: CASTPS06/032-2006

- G grade product:

Example: 3JB20-3/II28 C

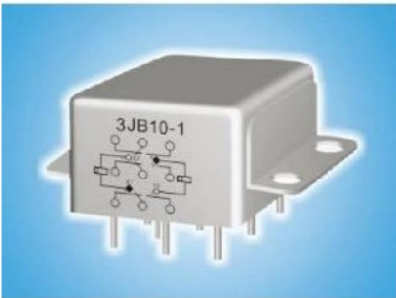
3JB20-3	/	II	28	C
Product number		Environmental rating	Coil voltage	Mounting style

Detailed specification: Q/RYJ0186-2004

Related products



4JB5-2
Magnetic Latching Relay



3JB10-1
Magnetic Latching Relay



1JB6-1
Magnetic Latching Relay



2JB5-1
Magnetic Latching Relay