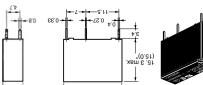
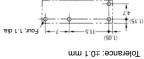
29

CAT. No. J143-E2-02A-X

Precautions -



ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.







To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

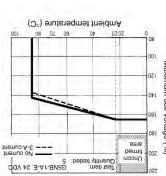
Terminal Arrangement/ Internal Connections (Bottom View)

(No coil polarity)

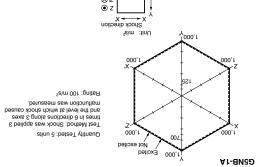
PCB Mounting Holes (Bottom View)

Note: All units are in millimetres unless otherwise indicated.

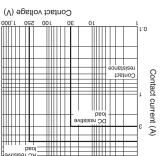
- snoisnemia







Ambient Temperature vs. Maximum Coil Voltage Malfunctioning Shock



Maximum Switching Capacity

Engineering Data -







Z 250 VAC, 30 VDC resistive load

■ ROHS compliant. of Small Appliances. Conditioners, and Heating Control Contact), Fan Control of Air

Wm 004 .xorqqA

22 89

Am 08

2 ADC

110% of rated voltage 5% min. of rated voltage

75% max. of rated voltage

202

9 VDC

Rated coil voltage

Contact form

Am 4.44

ower consumption

Rated current Rated voltage

egnitsЯ lio⊃ ■ Specifications -

4: Fully sealed

2. Protective Structure

1. Number of Poles

■ Air Conditioner ■ Refrigerator

■ Fan Motor

1: 1 pole (SPDT)

G2SB-□□□ ADC Model Number Legend

Example: G5SB-14 12 VDC

- noitemafing Information -

Application Examples

■ Conforms to UL, CSA and EN.

switches 5 A max.

8,000 V between the coil and contacts. ■ Ensures a withstand impulse voltage of

■ Incorporates a normally open contact that ■ Compact SPDT Relay with high insulation.

Note: When ordering, add the rated coil voltage to the model number.



C22B-14

5,762 Q

Amc.8

48 ADC

ا '440 ت

Am 7.91

54 ADC

360 2

Am &.&&

15 ADC

2' 8' 15' 54 ADC

Enclosure ratings

3. Rated Coil Voltage

Fully sealed

Others

nevO ■

■ Washing Machine

PCB Power Relay - G5SB

Compact Single-pole Relay for

Switching 5 A (Normally Open

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PCB Power Relay - G5NB-E

79

Meight

Ambient humidity

Ambient temperature

Fugnisuce (see uote 5)

Shock resistance

uonginsu

Vibration resistance

Tracking Resistance CTI

mpulse withstand voltage

Release time (see note 3) Operate time (see note 3)

■ Characteristics

Min. permissible load

Max. switching capacity

Max. switching current Max. switching voltage

■ Contact Ratings

Rated carry current

Contact material

Rated load

Load

nsulation resistance (see note 4)

Contact resistance (see note 2)

Mote: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

4. The insulation resistance is possible between coil and contacts and between contacts of the same polarity at 500 VDC. 5. The electrical durability data items shown are possible at 23° C. 3. The operating time is possible with the operating voltage imposed with no contact bounce at an ambient temperature of 23°C.

Operating: -40°C to 70°C with no icing or condensation

100,000 operations: 3 k (VC) at 250 VAC resistive load 100,000 operations: 5 k (VO)/3 k (VC) at 30 VDC resistive load

50,000 operations: 5 A (NO)/3 A (NC) at 125 VAC resistive load 50,000 operations: 5 A (NO) at 250 VAC resistive load

Mechanical: 5,000,000 operations (18,000 operations per hour) Electrical: 200,000 operations: 3 A (WO)3 A (WC) at 125 VAC resistive load

Destruction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 Hz, 0.75-mm single amplitude)

4,000 VAC, 50/60 Hz for 1 min between coil and contacts 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity

Switching frequency: 1,800 operations per hour

Non-energized: 100 m/s² (approx. 10 G) Malfunction: Energized: 100 m/s² (approx. 10 G)

Destruction: 1,000 m/s² (approx. 100 G)

Note: 1. The data shown above are initial values.
2. The contact restatance is possible with 1 A applied at 5 VDC using a fall-of-potential method.

Operating: 5% to 85%

Approx. 6.5 g

Λ 097

8 kV (1.2 x 50 µs)

.nim 22M 000, F

sms max.

10 ms max.

100 ms max.

10 mA at 5 VDC

750 VA, 30 W (NC) (ON) W 031, AV 03S, f

(DN) A E/(ON) A B

250 VAC, 30 VDC

(DN) A E/(ON) A B nln2gA + iMgA

Resistive Load

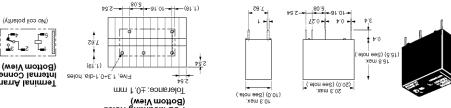
5 A (NO)/3 A (NC) at 30 VDC 3 A (NC) at 250 VAC 3 A (NC) at 250 VAC 3 A (NO)/3 A (NC) at 125 VAC 5 A (NO)/3 A (NC) at 125 VAC

Clearance (Typ) 5.8 mm Creepage (Typ) 6.7 mm

CAT. No. K122-E2-01A-X

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.



Note: All units are in millimetres unless otherwise indicated.

PCB Mounting Holes (Bottom View)

Terminal Arrangemer Internal Connections (Weitv mottod)

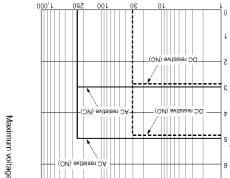
(C°) enuberaqmet trieidmA

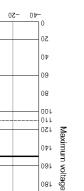
23 40 60 70 80 100

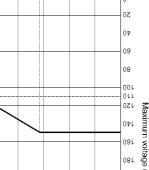
- snoisnamiQ

Switching voltage (V)

Note: Values in parentheses are average values.







Max. Switching Capacity

Ambient Temperature vs. Maximum Voltage

Engineering Data -

Contact ratings	egniter lioO	ləboM
3 A, 125 VAC (resistive) NO only 2 A, 125 VAC (resistive) NO only 5 A, 250 VAC (resistive) NO only 3 A, 250 VAC (resistive) NO only 5 A, 30 VDC (resistive) NO only		GESB
	000,8 = snoitsred test of test of which is 000.	Electrical endurance tests are performed at 7

EN 61810-1 (VDE Reg. no 40003957) UL508 (File No. E41515)/CSA C22.2 (No.14) (File No. LR31928) ■ Approved Standards

PCB Power Relay - G5SB

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PCB Power Relay - G5SB

79

Meight

Ambient humidity

Ambient temperature

Fugnisuce (see uote 5)

Shock resistance

uonginsu

Vibration resistance

Tracking Resistance CTI)

mpulse withstand voltage

Release time (see note 3) Operate time (see note 3)

■ Characteristics

Min. permissible load

Max. switching capacity

Max. switching current Max. switching voltage

■ Contact Ratings

Rated carry current

Contact material

Rated load

Load

nsulation resistance (see note 4)

Contact resistance (see note 2)

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

5. The electrical durability data items shown are possible at 23°C.

Note: 1. The data shown above are initial values.

2. The contact resistance is possible with 1 A applied at 5 VDC using a fall-of-potential method.

Operating: 5% to 85%

Approx. 6.5 g

Λ 097

8 kV (1.2 x 50 µs)

.nim 52M 000, F 5 ms max.

.xsm sm UT

100 ms max.

10 mA at 5 VDC

750 VA, 30 W (NC) (ON) W 031, AV 03S, f

(DN) A E/(ON) A B

250 VAC, 30 VDC

(DN) A E/(ON) A B nln2gA + iMgA

Resistive Load

5 A (NO)/3 A (NC) at 30 VDC 3 A (NC) at 250 VAC 3 A (NC) at 250 VAC 3 A (NO)/3 A (NC) at 125 VAC 5 A (NO)/3 A (NC) at 125 VAC

Clearance (Typ) 5.8 mm Creepage (Typ) 6.7 mm

3. The operating time is possible with the operating voltage imposed with no contact bounce at an ambient temperature of 23°C.
4. The insulation resistance is possible between coil and contacts and between contacts of the same polarity at 500 VDC.

Operating: -40°C to 70°C with no icing or condensation

Non-energized: 100 m/s² (approx. 10 G) Malfunction: Energized: 100 m/s² (approx. 10 G)

Destruction: 1,000 m/s² (approx. 100 G)

100,000 operations: 5 A (NO)/1 A (NC) at 30 VDC resistive load Switching frequency: 1,800 operations per hour

50,000 operations: 5 A (NO) at 250 VAC resistive load 100,000 operations: 3 A (NC) at 250 VC resistive load

Mechanical: 5,000,000 operations (18,000 operations per hour) Electrical: 200,000 operations: 3 A (NC)/3 A (NC) at 125 VAC resistive load

Destruction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 Hz, 0.75-mm single amplitude)

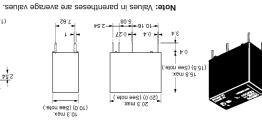
4,000 VAC, 50/60 Hz for 1 min between coil and contacts 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity

CAT. No. K122-E2-02-X

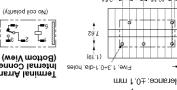
To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

1.18) - - - - - - - - - - - - - - - (81.1)



Note: All units are in millimetres unless otherwise indicated.



(C°) enuberaqmet trieidmA

23 40 60 70 80 100

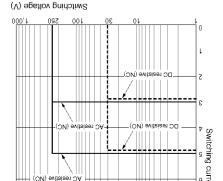
Terminal Arrangemer Internal Connections (Weitv mottod)

PCB Mounting Holes (Bottom View)

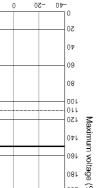
Tolerance: ±0.1 mm

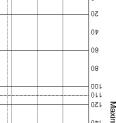
2.54

Dimensions -









Ambient Temperature vs. Maximum Voltage

Max. Switching Capacity

Engineering Data -

Contact ratings	Soil ratings	ІэроМ
3 A, 125 VAC (resistive) NO only 2 A, 125 VAC (resistive) NC only 5 A, 250 VAC (resistive) NC only 3 A, 250 VAC (resistive) NO only 5 A, 30 VDC (resistive) NO only		GSSB
	0.00. Number of test operations = 6,000	Electrical endurance tests are performed at 70

EN 61810-1 (VDE Reg. no 40003957) UL508 (File No. E41515)/CSA C22.2 (No.14) (File No. LR31928) ■ Approved Standards

PCB Power Relay - G5SB

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PCB Power Relay - G5SB

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