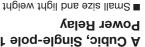
PCB Relay - G5LA

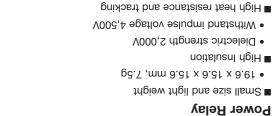
A01 əloq-əlgnic, ciduO A

- thgiew thgil bns ezis llsm2 ■

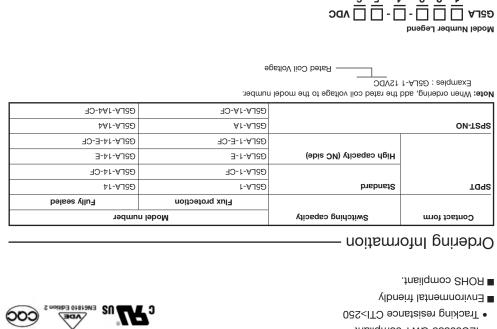
• IECe0332 GWT compliant • UL class-F available (-CF model)

performance









6. Rated Coil Voltage

None: Standard CF: Class F

5. UL Insulation System

4. Contact Type

None: Standard E: High capacity (NC side)

3. Sealing/Protective Construction

None: Flux protection

4: Fully sealed

ON-TS4S

əlod r

None: SPDT 2. Contact Form/Contact Co

1. Number of Poles

	ON-TS4S
High capacity (NC side)	
Standard	TOAS
Switching capacity	Contact form



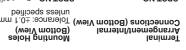


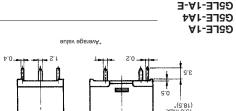
SPDT

Terminal Mounting Holes
Arrangement/Internal (Bottom View)
Connections (Bottom View) Tolersnoe: ±0.1 mm
unless specified
connections



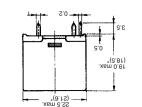
To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

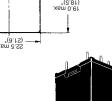




*(8.81) =

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.





G5LE-1A-G

96

CAT. No. K900-E2-01

G5LE-1-G

G5LE-1-E G5LE-14 G5LE-1

 $\textbf{Note: 1.} \ \, \textbf{All units are in millimetres unless otherwise indicated.}$

2. Orientation marks are indicated as follows:

- snoisnemiQ

PCB Power Relay - G5LE

PCB Relay - G5LA

UL508 (UL File No. E41643) ■ Approved Standards

10A, 277VAC, general use, 100,000 cycles (-E model)		
10A, 125VAC, resistive		
NC:		
200W tungsten, 125VAC, 100,000 cycles		
1/2Hp, 250VAC		
1/2Hp, 125VAC		
15A, 125VAC, general use, 50,000 cycles		
10A, 277VAC, general use, 85°C, 50,000 cycles (-CF model)		
10A, 277VAC, general use, 100,000 cycles		
:ON	2 fo 48 VDC	G5LA
Contact ratings	Coil ratings	ІэроМ

consistent sectors 2	0	
Contact ratings	Coil ratings	leboM
ON:	5,6,9,12,18,24,48 VDC	G5LA G5LA
10A, 250VAC, cosh=1, 85°C, 1 sec		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		
10A, 250VAC, cosp=1, 85°C, 5 sec		
12A, 125VAC, cosp=1, 85°C, 10,000		
NC:		
10A, 250VAC, cosh=1, 85°C, 25,000		
NO/NC:		
5A, 250VAC, cosφ=1, 85°C		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		

Contact ratings	Son raungs	Iapolal
:ON	5,6,9,12,18,24,48 VDC	G5LA
10A, 250VAC, cos¢=1, 85°C, 1 sec		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		
10A, 250VAC, cosφ=1, 85°C, 5 sec		
12A, 125VAC, cosh=1, 85°C, 10,000		
NC:		
10A, 250VAC, cosφ=1, 85°C, 25,000		
NO/NC:		
SA, 250VAC, cosφ=1, 85°C		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		

70A, 250VAC, resistive, 10,000 cycles (-E model) 12A, 250VAC, resistive, 10,000 cycles (-E model)

Contact ratings

10A, 260VAC, resistive, 10,000 cycles 12A, 120VAC, resistive, 10,000 cycles NO/NC:

N61810-1 (NDE Reg. No. B652

. No. B652)	(ADE Bear	1-01819N
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O: B652)	Вед. Ис	(ADE	1-01819N

		•			
B652)	.oN	Reg.	(ADE	r-0	EN6181

	Reg. No. B652)	EN61810-1 (VDE
	Coil ratings	ləboM
ON 10	5,6,9,12,18,24,48 VDC	G5LA

2'9'15'54'48 ADC

GB15092.1 (CQC File No. CQC06001015477)

Coil ratings

G5LA

Coil ratings	ləboM
тед. ио. ворх	auv) r-υгагаиа

witching current		10A(NO), 5A(NC)	Aor
egatov prinching		250VAC, 24VDC	
carry current		10A(NO), 5A(NC)	A01
ON/ON		OAV521 18 A2\A2 OAV02S 18 A2\A2	5A/5A at 24VDC 5A/5A at 24VDC
ON beol		10A at 250VAC 10A at 24VDC	
		(t=deoo) baol evitieseA	
t material		_s On2gA	

Standard model

₹00 ₹

Am 08

15 ADC

Note: The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of $\pm 10\%$.

9 АДС

130% of rated voltage at 85°C, 170% of rated voltage at 23°C

Wm 088

Am S7

2 ADC

Omron 08 Cat 1-302 5/10/07 15:39 Page 98

10% min. of rated voltage

75% max. of rated voltage

High capacity (-E) model

1600 छ

54 ADC

മ മ 008⊅

48 ADC

Failure rate (reference value)		OUV 3 ts Am 001		
	ON/ON	AC625VA, DC120W	AC1,250VAC, DC120W	
Max. switching power	ON	AC2,500VA, DC240W		
Max. switching current		10A(NO), 5A(NC)	AOT	
Max. switching voltage		250VAC, 24VDC		
Rated carry current		10A(NO), 5A(NC)	A01	
	ON/ON	SAV5St 18 A2\A2 SAV0SS 18 A2\A2	5A/AS at 24VDC CAVAS at 24VDC	
Pated load	ON	10A at 250VAC 10A at 24VDC		
Гоад		Resistive load (cosh=1)		
Contact material		SOn2gA		

■ Contact Ratings

Max. voltage

Coil resistance Rated current

Rated voltage egnitsЯ lio⊃∎

Must release voltage Must operate voltage

Specifications –

PCB Relay - G5LA

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

■ Characteristics

Endurance Mechanical: 10,000,000 operations min. Electrical: 100,000 operations typical Electrical: 100,000 operations Cherating: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing)
Endurance Mechanical: 10,000,000 operations min. Electrical: 100,000 operations typical Electrical: 100,000 operations typical Operating: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Operating: 35% to 85%
Endurance Mechanical: 10,000,000 operations min. Electrical: 100,000 operations typical Electrical: 100,000 operations typical Operating: -40° to 85° (with no icing)
Endurance Mechanical: 10,000,000 operations min.
Shock resistance Destruction: 1,000 m/s² (approx. 100G) Malfunction: 100 m/s² (approx. 10G)
Vibration resistance Destruction: 10 to 55Hz, 1.5mm double amplitude Malfunction: 10 to 55Hz, 1.5mm double amplitude
Dielectric strength 2,000 VAC. 1mA 50/60Hz for 1 min between contacts 750 VAC 1mA 50/60Hz for 1 min between contacts of same polarity
Insulation resistance 1,000Ms min. (at 500 VDC)
Max. switching frequency Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)
Release time 5 ms max.
Operate time 10 ms max.
Contact resistance 100 m2 max.

Note: Values in the above table are the initial values.

PCB Relay - G5LA

UL508 (UL File No. E41643) ■ Approved Standards

10A, 277VAC, general use, 100,000 cycles (-E model)		
10A, 125VAC, resistive		
NC:		
200W tungsten, 125VAC, 100,000 cycles		
1/2Hp, 250VAC		
1/2Hp, 125VAC		
15A, 125VAC, general use, 50,000 cycles		
10A, 277VAC, general use, 85°C, 50,000 cycles (-CF model)		
10A, 277VAC, general use, 100,000 cycles		
:ON	2 fo 48 VDC	G5LA
Contact ratings	Coil ratings	ІэроМ

consistent sectors 2	0	
Contact ratings	Coil ratings	leboM
ON:	5,6,9,12,18,24,48 VDC	G5LA G5LA
10A, 250VAC, cosh=1, 85°C, 1 sec		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		
10A, 250VAC, cosp=1, 85°C, 5 sec		
12A, 125VAC, cosp=1, 85°C, 10,000		
NC:		
10A, 250VAC, cosh=1, 85°C, 25,000		
NO/NC:		
5A, 250VAC, cosφ=1, 85°C		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		

Contact ratings	Son raungs	Iapolal
:ON	5,6,9,12,18,24,48 VDC	G5LA
10A, 250VAC, cos¢=1, 85°C, 1 sec		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		
10A, 250VAC, cosφ=1, 85°C, 5 sec		
12A, 125VAC, cosh=1, 85°C, 10,000		
NC:		
10A, 250VAC, cosφ=1, 85°C, 25,000		
NO/NC:		
SA, 250VAC, cosφ=1, 85°C		
- flux protection: 50,000 cycles		
- fully sealed: 10,000 cycles		

70A, 250VAC, resistive, 10,000 cycles (-E model) 12A, 250VAC, resistive, 10,000 cycles (-E model)

Contact ratings

10A, 260VAC, resistive, 10,000 cycles 12A, 120VAC, resistive, 10,000 cycles NO/NC:

N61810-1 (NDE Reg. No. B652

. No. B652)	(ADE Bear	1-01819N
-------------	-----------	----------

O: B652)	Вед. Ис	(ADE	1-01819N

		•			
B652)	.oN	Reg.	(ADE	r-0	EN6181

	Reg. No. B652)	EN61810-1 (VDE
	Coil ratings	ləboM
ON 10	5,6,9,12,18,24,48 VDC	G5LA

2'9'15'54'48 ADC

GB15092.1 (CQC File No. CQC06001015477)

Coil ratings

G5LA

Coil ratings	ləboM
TRIU-1 (VDE KEG. NO. B652)	

witching current		10A(NO), 5A(NC)	A01
witching voltage		250VAC, 24VDC	
carry current		10A(NO), 5A(NC)	A01
	ON/ON	OAV521 18 A2\A2 OAV02S 18 A2\A2	5A/5A at 24VDC 5A/5A at 24VDC
peol	ON	10A at 250VAC 10A at 24VDC	
		Resistive load (cosh=1)	
ct material		_s On2gA	

Standard model

₹00 ₹

Am 08

15 ADC

Note: The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of $\pm 10\%$.

9 АДС

130% of rated voltage at 85°C, 170% of rated voltage at 23°C

Wm 088

Am S7

2 ADC

Omron 08 Cat 1-302 5/10/07 15:39 Page 98

10% min. of rated voltage

75% max. of rated voltage

High capacity (-E) model

1600 छ

54 ADC

മ മ 008⊅

48 ADC

Failure rate (reference value)		JOV at 5 VDC	
	ON/ON	AC625VA, DC120W	AC1,250VAC, DC120W
Max. switching power	ON	AC2,500VA, DC240W	
Max. switching current		10A(NO), 5A(NC)	AOT
Max. switching voltage		S20VAC, 24VDC	
Rated carry current		10A(NO), 5A(NC)	A01
	ON/ON	OAV5St 18 A3\A2 OAV03S 18 A3\A2	5A/AS at 24VDC CAVAS at 24VDC
Pated load	ON	10A at 250VAC 10A at 24VDC	
Гоад		Resistive load (cosé=1)	
Contact material		SOn2gA	

■ Contact Ratings

Max. voltage

Coil resistance Rated current

Rated voltage egnitsЯ lio⊃∎

Must release voltage Must operate voltage

Specifications –

PCB Relay - G5LA

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

■ Characteristics

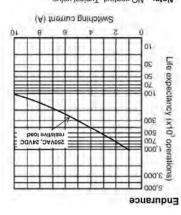
Endurance Mechanical: 10,000,000 operations min. Electrical: 100,000 operations typical Electrical: 100,000 operations typical Ambient temperature Operating: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Storage: 35% to 85% Storage: 35% to 85% Storage: 35% to 85% Ambient humidity Operating: 35% to 85% Storage: 35% to 85% Storag
Electrical: 100,000 operations typical Ambient temperature Operating: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing) Operating: 35% to 85% to 85%
Electrical: 100,000 operations typical Ambient temperature Operating: -40° to 85° (with no icing)
Shock resistance Destruction: 1,000 m/s² (approx. 100G) Malfunction: 100 m/s² (approx. 10G)
Vibration resistance Destruction: 10 to 55Hz, 1.5mm double amplitude Malfunction: 10 to 55Hz, 1.5mm double amplitude
Dielectric strength 2,000 VAC. 1mA 50/60Hz for 1 min between coil and contacts of same polarity 750 VAC 1 mA 50/60Hz for 1 min between contacts of same polarity
Insulation resistance 1,000MΩ min. (at 500 VDC)
Max. switching frequency Mechanical: 18,000 operations/hr (under rated load) Electrical: 1,800 operations/hr (under rated load)
Release time 5 ms max.
Operate time 10 ms max.
Contact resistance 100 ms max.

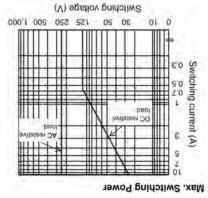
Note: Values in the above table are the initial values.

LOL

PCB Relay - G5LA

Engineering Data -

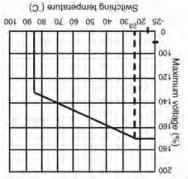




Note: NO contact, Typical value

Note: NO contact

Ambient Temp. Vs Max. Voltage



Note: The maximum coil voltage is the maximum value in a varying range of operating power voltages not a continuous voltage

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

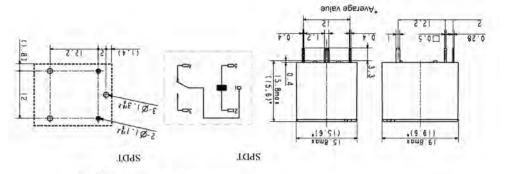
CAT. No. K901-E2-01

PCB Relay - G5LA

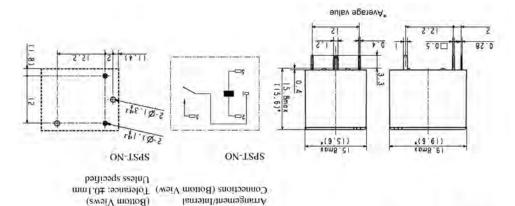
- snoisnami**O**

Note: All units are in millimeters unless otherwise indicated.

Arrangement/Internal (Bottom Views) Connections (Bottom Views) Tolerance: ±0 Imm Unless specified Terminal ■ SPDT Models



■ SPST-NO Models



100

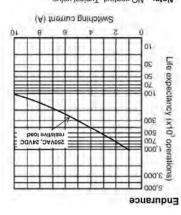
Mounting Holes

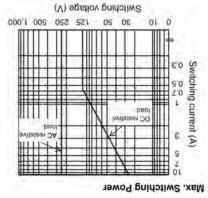
Mounting Holes

LOL

PCB Relay - G5LA

Engineering Data -

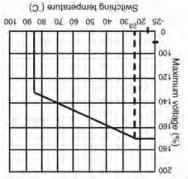




Note: NO contact, Typical value

Note: NO contact

Ambient Temp. Vs Max. Voltage



Note: The maximum coil voltage is the maximum value in a varying range of operating power voltages not a continuous voltage

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

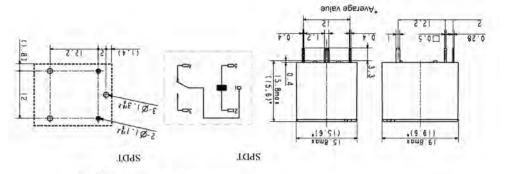
CAT. No. K901-E2-01

PCB Relay - G5LA

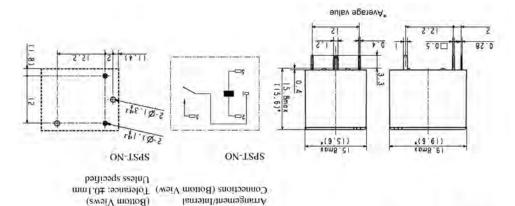
- snoisnami**O**

Note: All units are in millimeters unless otherwise indicated.

Arrangement/Internal (Bottom Views) Connections (Bottom Views) Tolerance: ±0 Imm Unless specified Terminal ■ SPDT Models



■ SPST-NO Models



100

Mounting Holes

Mounting Holes

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