

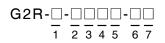
The Best Seller G2R

- 1General purpose power Relays of single-pole10 A and double-pole 5 A.
- Safety-oriented design with dielectric strength of 5,000 V between coil and contacts, and surge resistance of 10,000 V.
- AC and DC types are both available for operational coils.

RoHS Compliant



Model Number Legend



1. Relay Function None: Single-side stable

- K : Double-winding latching
- 2. Number of poles
- 1: 1-pole
- 2: 2-pole

3. Contact Form None: NO/NC A : NO

■Model Configuration

4. Contact Type None: Single

- Z : Bifurcated contact
- 5. Enclosure rating
 None: Flux protection

 (T-type is an enclosed relay)

 4 : Fully sealed

6. Terminal Shape

None: PCB terminals T : Quick-connect (upper bracket mounting #187)

7. Classification

- None: Standard
 - E : High-capacity
 - H : High-sensitivityU : For ultrasonically

A) 🚯 🖄 🖉

- cleanable Z : Full-wave rectifier

		Number	r of poles	1-р	ole	2-p	ole	Minimum
Terminal Shape	Classification	Enclosure rating	Contact form	SPST-NO (1a)	SPDT (1c)	DPST-NO (2a)	DPDT (2c)	packing unit
		Flux protection	AC	G2R-1A	G2R-1	G2R-2A	G2R-2	
	Standard	T lux protection	DC	dzn-1A	G2H-1	G2H-2A	G2H-2	100
	Stanuaru	Fully sealed	AC	G2R-1A4	G2R-14	G2R-2A4	000 04	pcs/tray
		Fully Sealed	DC	G2h-TA4		G2R-2A4	G2R-24	
	Bifurcated contact	Flux protection	DC	G2R-1AZ	G2R-1Z	-	-	50
PCB terminals		Fully sealed	DC	G2R-1AZ4	G2R-1Z4	-	-	pcs/tray
	High consoity		AC	G2R-1A-E	G2R-1-E			
	High-capacity	Flux protection	DC	G2H-TA-E		_	-	100 pcs/tray
	High-sensitivity	Flux protection	DC	G2R-1A-H	G2R-1-H	G2R-2A-H	G2R-2-H	poo,
	Double-winding latching	Flux protection	DC	G2RK-1A	G2RK-1	G2RK-2A	G2RK-2	50 pcs/tray
Quick-connect	Standard	Unsealed	AC	G2R-1A-T	G2R-1-T	_		100
Quick-connect	Stanuard	Unsealed	DC	GZN-TA-T	G2H-1-1	-	-	pcs/tray

Note 1. Full-wave rectifier and supersonic cleaner compatible models are also available. Refer to page 3.

2. Sockets for PCB terminal models are not provided.

■Ordering Information

PCB Terminal Models

		Number of poles		1-pole		2-pole
Classification	Enclosure rating	Contact form	Model	Rated coil voltage	Model	Rated coil voltage
				12, 24, 100/(110) VAC		12, 24, 100/(110) VAC
		NO	G2R-1A	200/(220) VAC	G2R-2A	200/(220) VAC
		NO	026-1A	5, 6, 12, 24, 48 VDC	02h-2A	5, 6, 12, 24, 48 VDC
	Elux protection			100 VDC		100 VDC
	Flux protection			12, 24, 100/(110) VAC		12, 24, 100/(110) VAC
		NO/NC	G2R-1	200/(220) VAC	G2R-2	200/(220) VAC
		NO/NC	G2H-1	5, 6, 12, 24, 48 VDC	G2H-2	5, 6, 12, 24, 48 VDC
Standard				100 VDC		100 VDC
Stanuaru				12, 24, 100/(110) VAC		12, 24, 100/(110) VAC
Fully seal		NO	G2R-1A4	200/(220) VAC	G2R-2A4	200/(220) VAC
		NO	G26-1A4	5, 6, 12, 24, 48 VDC	G2n-2A4	5, 6, 12, 24, 48 VDC
	Fully sealed			100 VDC		100 VDC
				12, 24, 100/(110) VAC		12, 24, 100/(110) VAC
		NO/NC	G2R-14	200/(220) VAC	G2R-24	200/(220) VAC
				5, 6, 12, 24, 48 VDC		5, 6, 12, 24, 48 VDC
				100 VDC		100 VDC
		NO	G2R-1A-H	5, 6, 12, 24, 48 VDC	G2R-2A-H	5, 6, 12, 24, 48 VDC
High-sensitivity		NO/NC	G2R-1-H	5, 6, 12, 24, 48 VDC	G2R-2-H	5, 6, 12, 24, 48 VDC
Double-winding	 Flux protection 	NO	G2RK-1A	5, 6, 12, 24 VDC	G2RK-2A	5, 12, 24 VDC
latching		NO/NC	G2RK-1	5, 6, 12, 24 VDC	G2RK-2	5, 6, 12, 24 VDC
		NO	COD 147	12, 24, 48 VDC		
	Elux protection	NO	G2R-1AZ	100 VDC		
	Flux protection	NO/NC	G2R-1Z	5, 6, 12, 24, 48 VDC		-
Bifurcated		NO/NC	G2N-12	100 VDC		
contact		NO	G2R-1AZ4	5, 12, 24, 48 VDC		
	Fully sealed	NO	026-1A24	100 VDC		
	Fully Sealed	NO/NC	G2R-1Z4	5, 12, 24, 48 VDC		-
		NO/NC	G2N-124	100 VDC		
				12, 24, 100/(110) VAC		
		NO	G2R-1A-E	200/(220) VAC		
		NO	G2R-TA-E	5, 6, 12, 24, 48 VDC		-
High consoit.	Flux protection			100 VDC		
High-capacity	r iux protection			12, 24, 100/(110) VAC		
		NO/NC	C2D 1 F	200/(220) VAC		
		NO/NC	G2R-1-E	5, 6, 12, 24, 48 VDC		-
				100 VDC		

Note: When ordering, add the rated coil voltage to the model number. Example: G2R-1A AC12 Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as \Box VAC.

• Quick-connect Terminal (#187)

		Number of poles	1-pole		
Classification	Enclosure rating	Contact form	Model	Rated coil voltage	
				12, 24, 100/(110) VAC	
		NO	G2R-1A-T	200/(220) VAC	
		NO	G2N-TA-T	5, 6, 12, 24, 48 VDC	
Standard	Unsealed			100 VDC	
Stanuaru	Unsealed			12, 24, 100/(110) VAC	
		NO/NC	G2R-1-T	200/(220) VAC	
		NO/NC	G2N-1-1	5, 6, 12, 24, 48 VDC	
				100 VDC	

• Full-wave Rectifier

		Number of poles	1	-pole	2-pole		
Classification	Enclosure rating	Contact form	Model	Rated coil voltage	Model	Rated coil voltage	
		NO	G2R-1A-Z	5, 12, 24 VDC	G2R-2A-Z	5, 6, 12, 24, 48 VDC	
	Flux protection	NO	02h-1A-2	100 VDC	G2N-2A-2	100 VDC	
	T lux protection	NO/NC	G2R-1-Z	5, 12, 24, 48 VDC	G2R-2-Z	12, 24, 48 VDC	
Standard		NO/NO	021-1-2	100 VDC	626-2-2	100 VDC	
Stanuaru		NO	G2R-1A4-Z	5, 12, 48 VDC	G2R-2A4-Z	24, 48 VDC	
	Fully sealed	NO		100 VDC	G2H-2A4-2	100 VDC	
	T ully sealed	NO/NC	G2R-14-Z	5, 12, 24, 48 VDC	G2R-24-Z	5, 12, 24 VDC	
		NO/NC	G2N-14-2	100 VDC	G2N-24-2	100 VDC	
		NO	G2R-1A-EZ	5, 12, 24 VDC			
High-capacity	Flux protection		GZN-TA-EZ	100 VDC		-	
		NO/NC	G2R-1-EZ	12, 24, 48 VDC			

• For Ultrasonically Cleanable

	Number of poles			1-pole	2-pole		
Classification	Enclosure rating	Contact form	Model	Rated coil voltage	Model	Rated coil voltage	
				12, 24, 100/(110) VAC		100/(110) VAC	
		NO	G2R-1A4-U	200/(220) VAC	G2R-2A4-U	-	
				5, 6, 12, 24, 48 VDC		5, 12, 24 VDC	
Standard	Fully sealed			100/(110) VAC 200/(220) VAC		24, 100/(110) VAC 200/(220) VAC	
		NO/NC	G2R-14-U	5, 12, 24, 48 VDC	G2R-24-U	5, 12, 24, 48 VDC	
				100 VDC		100 VDC	

Note: When ordering, add the rated coil voltage to the model number. Example: G2R-1A-T AC12 Rated coil voltage

However, the notation of the coil voltage on the product case as well as on the packing will be marked as VAC.

G 2 R

■Ratings

● Coil									
	Item		rrent (mA)	Coil resistance	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption	
Classification	Rated voltage	50 Hz 60 Hz		(Ω)		% of rated voltage			
Standard	12 VAC	93	75	65			140% (at 23°C)		
Quick-connect	24 VAC	46.5	37.5	260	- 80% max.	30% min.		Approx. 0.9	
Fully sealedHigh-capacity	100/(110) VAC	11	9/(10.6)	4,600	80% max.	30% min.		(60 Hz)	
	200/(220) VAC	5.5	4.5/(5.3)	20,200					
	5 VDC	10	6	47					
Standard	6 VDC	8	8.2	68					
 High-capacity Bifurcated contact 	12 VDC	43.6		275	70% max.	15% min.	170%	Approx 0.52	
Quick-connect	24 VDC	2	1.8	1,100	70% max.	15% mm.	(at 23°C)	Approx. 0.53	
Fully sealed	48 VDC	1	1.5	4,170					
	100 VDC		5.3	18,870					
	5 VDC	7	1.4	70					
	6 VDC	6	0	100					
 High-sensitivity 	12 VDC	3	0	400	70% max.	15% min.	170% (at 23°C)	Approx. 0.36	
0	24 VDC	1	5	1,600	1		(ai 23°C)		
	48 VDC		7.5	6,400	1				

G 2 R Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of+15%/-20% (AC rated current) or ±10% (DC coil resistance). 2. AC coil resistances shown above are only reference values.

3. The operating characteristics are measured at a coil temperature of 23°C.

4. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

• Coil: Double-winding Latching Relays

Item	Set Coil		Reset coil		Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power co	nsumption
Rated voltage	Rated current (mA)	Coil resistance (Ω)	Rated current (mA)	Coil resistance (Ω)	% of rated voltage		Set Coil (mW)	Reset coil (mW)	
5 VDC	167	30	119	42					
6 VDC	138	43.5	100	60	70% max.	70% max.	140% (at 23°C)	Approx. 850	Approx. 600
12 VDC	70.6	170	50	240	70% max.				
24 VDC	34.6	694	25	960					

Note 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

2. The operating characteristics are measured at a coil temperature of 23°C.

3. The "Max. voltage" is the maximum voltage that can be applied to the relay coil.

• Contacts: Flux Protection Type

Classification		Standard type Quick-connect Terminal (1single-pole type)			High-cap	acity type	Bifurcated contact type		High-sensitivity type			
Number of poles	1-pole		2-pole 1-pole		ole	2-p	ole	1-pole		2-pole		
Load	Resistive load	Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)	Resistive load	Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)		Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)	Resistive load	Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)	Resistive load	Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)		Inductive load $(\cos\phi = 0.4;$ L/R = 7 ms)
Contact type	Single				Sir	ngle	Bifurcated S			Sin	ngle	
Contact material						Ag-alloy	(Cd free)					
Rated load	10 A at 250 VAC 10 A at 30 VDC	7.5 A at 250 VAC 5 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 3 A at 30 VDC	16 A at 250 VAC 16 A at 30 VDC	8 A at 250 VAC 8 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 3 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 3 A at 30 VDC	3 A at 250 VAC 3 A at 30 VDC	1 A at 250 VAC 1.5 A at 30 VDC
Rated carry current	10	A	5	A	16	6 A	5	A	5	5 A 3 A		
Max. switching voltage		380 VAC,	125 VDC			380 VAC,	125 VDC			380 VAC,	125 VDC	
Max. switching current	10 A 5 A		16	6 A	5	A	5 A		3 A			
Failure rate (P level) (reference value) *	100 mA	at 5 VDC	10 mA a	t 5 VDC	100 mA	at 5 VDC	5 VDC 1 mA at 5 VDC		100 mA at 5 VDC		10 mA at 5 VDC	

* This value was measured at a switching frequency of 120 operations/min.

• Contacts: Fully Sealed Type

Classification		Standard type (Si		Bifurcated contact type			
Number of poles	1-pole		2-p	oole	1-pole		
Item Load	Resistive load $(\cos\phi = 1)$	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$	Resistive load $(\cos\phi = 1)$	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$	Resistive load $(\cos\phi = 1)$	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$	
Contact type	Sir	ngle	Sir	ngle	Bifurcated		
Contact material	Ag-alloy (Cd free)						
Rated load	8 A at 250 VAC 8 A at 30 VDC	6 A at 250 VAC 4 A at 30 VDC	4 A at 250 VAC 4 A at 30 VDC	1.5 A at 250 VAC 2.5 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 3 A at 30 VDC	
Rated carry current	8	A	4	4 A		5 A	
Max. switching voltage	380 VAC,	125 VDC	380 VAC	, 125 VDC	380 VAC	, 125 VDC	
Max. switching current	8	A	4	A	5 A		
Failure rate (P level) (reference value) *	100 mA at 5 VDC		10 mA at 5 VDC		1 mA at 5 VDC		

* This value was measured at a switching frequency of 120 operations/min.

Contacts: Latching Type

Number of poles	1-p	oole	2-p	oole	
Item Load	Resistive load $(\cos\phi = 1)$	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$	Resistive load (cos	Inductive load $(\cos\phi = 0.4; L/R = 7 ms)$	
Contact type	Single Single				
Contact material	Ag-alloy (Cd free)				
Rated load	5 A at 250 VAC 5 A at 30 VDC	3.5 A at 250 VAC 2.5 A at 30 VDC	3 A at 250 VAC 3 A at 30 VDC	1.5 A at 250 VAC 2 A at 30 VDC	
Rated carry current	5	A	3 A		
Max. switching voltage	380 VAC,	, 125 VDC	380 VAC, 125 VDC		
Max. switching current	5	A	3 A		
Failure rate (P level) (reference value) *	100 mA at 5 VDC 10 mA at 5 VDC			at 5 VDC	

* This value was measured at a switching frequency of 120 operations/min.

Characteristics

Standard Relays

Item	Number of poles	1-pole	2-pole			
Contact res	sistance *1	30 mΩ max.	50 m Ω max.			
Operate tin	ne *2	15 m	s max.			
Release tin	ne *2	AC: 10 ms max.; DC: 5 ms max.				
Max.	Mechanical	18,000 operations/hr				
operating frequency	Electrical	1,800 op	erations/hr			
Insulation r	esistance *3	1,000	MΩ min.			
	Between coil and contacts	5,000 VAC, 50/60 Hz	for 1 min			
Dielectric strength	Between contacts of different polarity	-	3,000 VAC, 50/60 Hz for 1 min			
Ũ	Between contacts of the same polarity	1,000 VAC, 50/60 Hz for 1 min				
Insulation distance	Between coil and contacts	Clearance: 8 mm, Creepage: 8 mm				
Vibration	Destruction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)				
resistance	Malfunction		z, 0.75 mm single n double amplitude)			
Shock	Destruction	1,00	0 m/s ²			
resistance	Malfunction		en energized; n no energized			
Durability	Mechanical	DC coil: 20,000,0 (at 18,000 c	00 operations min.; 00 operations min. operations/hr)			
	Electrical	100,000 operations min. (at 1,800 operations/hr under rated load)				
	erating temperature	-40°C to 70°C (with no icing)				
	erating humidity		o 85%			
Weight		Approx. 17 g (Approx. 17 g (Approx. 20 g *4)			

Note: The values here are initial values.

- Measurement conditions: 5 VDC, 1 A, voltage-drop method. Measurement conditions: Rated operating voltage applied, not including *2. contact bounce.
- Measurement conditions: The insulation resistance was measured with a *3. 500 VDC megohmmeter at the same locations as the dielectric strength was measured. Value for quick-connect terminals.

*4.

Number of poles Item 1-pole 2-pole Contact resistal 30 mΩ max 50 mΩ max *1 Time *2 20 ms max Set Min. set pulse width *3 30 ms 20 ms max Time *2 Reset Min. reset pulse 30 ms width *3 Max.operating Mechanical 18,000 operations/hr frequency Electrical 1,800 operations/hr Insulation resistance *4 1,000 MΩ min. Between coil and 5,000 VAC, 50/60 Hz for 1 min contacts 3,000 VAC, Between contacts of Dielectric different polarity 50/60 Hz for 1 min strength Between contacts of 1,000 VAC, 50/60 Hz for 1 min the same polarity Between set and 1,000 VAC, 50/60 Hz for 1 min reset coils Insulation Between coil and Clearance: 8 mm, Creepage: 8 mm distance contacts 10 to 55 to 10 Hz, 0.75 mm single Destruction Vibration amplitude (1.5 mm double amplitude) resistance 10 to 55 to 10 Hz, 0.75 mm single Malfunction amplitude (1.5 mm double amplitude) 1.000 m/s² Destruction Shock Set: 500m/s² Armature OFF resistance Malfunction Reset: 200m/s² Contact OFF 10,000,000 operations min Mechanical (at 18,000 operations/hr) Durability 100,000 operations min. (at 1,800 Electrical operations/hr under rated load) -40°C to 70°C (with no icing or Ambient operating temperature condensation) Ambient operating humidity 5% to 85% Approx. 17 g Weight

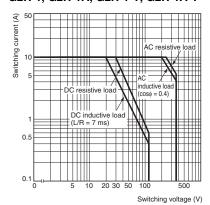
Double-winding Latching Relays

Note: The values here are initial values. *1. Measurement conditions: 5 VDC, 1 A, voltage-drop method.

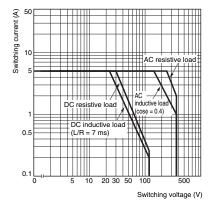
- *2. Measurement conditions: Rated operating voltage applied, not including contact bounce.
- *3. *4. Measurement couditions: Rated operating voltage applied. Measurement conditions: The insulation resistance was measured with a 500 VDC megohmmeter at the same locations as the dielectric strength was measured.

Engineering Data

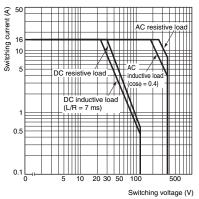
Maximum Switching Capacity Flux Protection/Plug-in Relays G2R-1, G2R-1A, G2R-1-T, G2R-1A-T



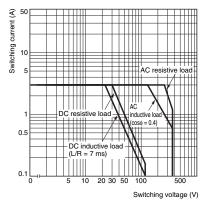
G2R-1-H, G2R-1A-H, G2R-2, G2R-2A



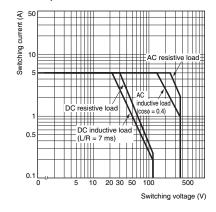
G2R-1-E, G2R-1A-E



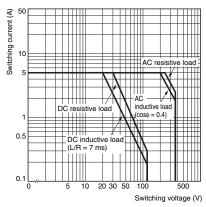
G2R-2-H, G2R-2A-H



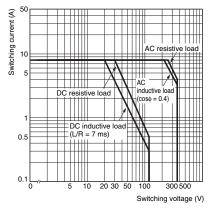
G2R-1Z, G2R-1AZ



G2RK-1A, G2RK-1

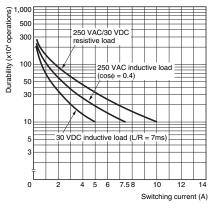


Fully Sealed Relays G2R-14, G2R-1A4

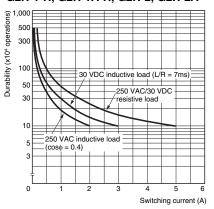


Durability

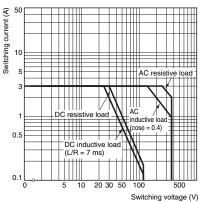
Flux Protection/Plug-in Relays G2R-1, G2R-1A, G2R-1-T, G2R-1A-T



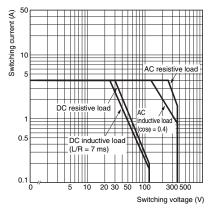
G2R-1-H, G2R-1A-H, G2R-2, G2R-2A



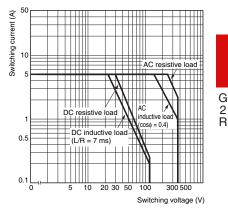
G2RK-2A, G2RK-2



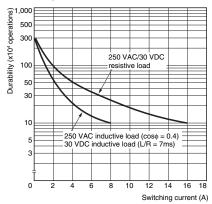
G2R-24, G2R-2A4



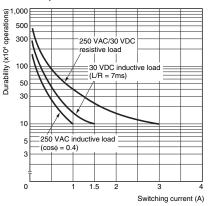
G2R-1Z4, G2R-1AZ4



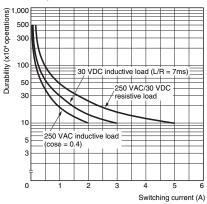
G2R-1-E, G2R-1A-E



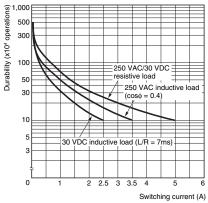
G2R-2-H, G2R-2A-H



G2R-1Z, G2R-1AZ

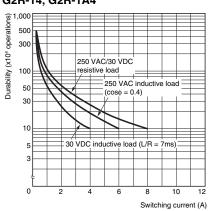


G2RK-1A, G2RK-1

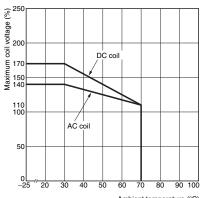


Fully Sealed Relays G2R-14, G2R-1A4

G 2 R



Ambient Temperature vs. Maximum **Coil Voltage**

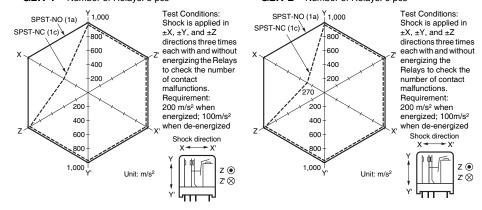


Ambient temperature (°C)

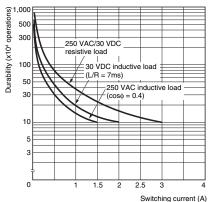
Note: The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

Shock Malfunction

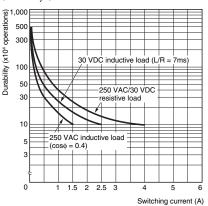




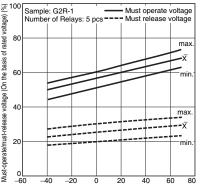
G2RK-2A, G2RK-2



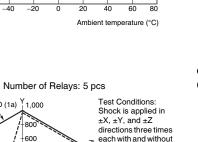
G2R-24, G2R-2A4



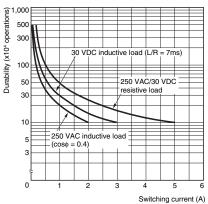
 Ambient Temperature vs. Must **Operate and Must Release Voltage** G2R-1



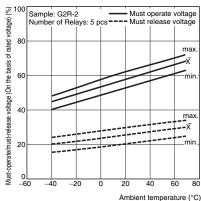
G2R-2 Number of Relays: 5 pcs



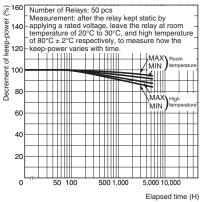
G2R-1Z4, G2R-1AZ4

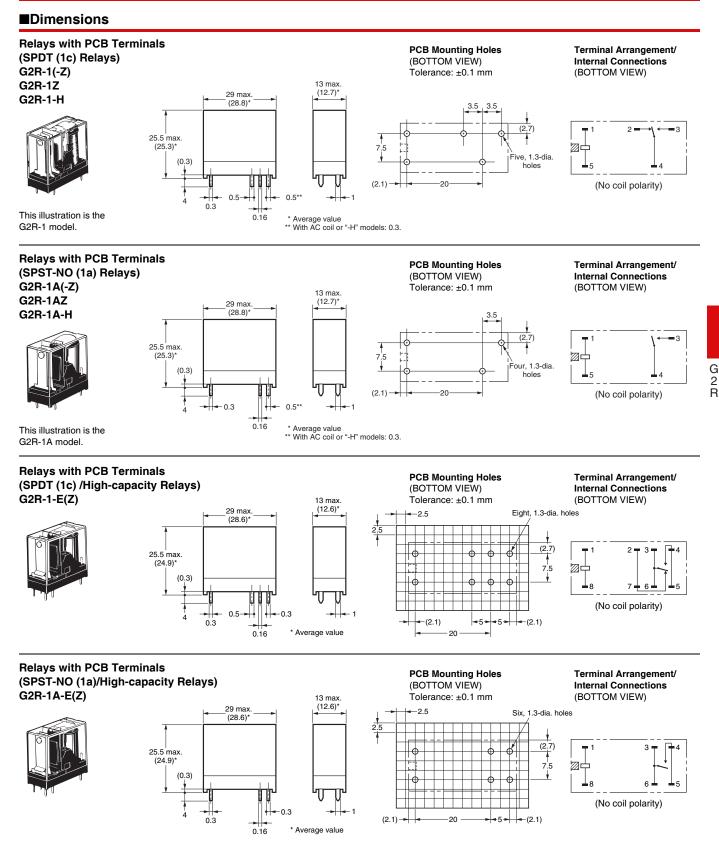






• Keep-power decrement with time G2RK-1

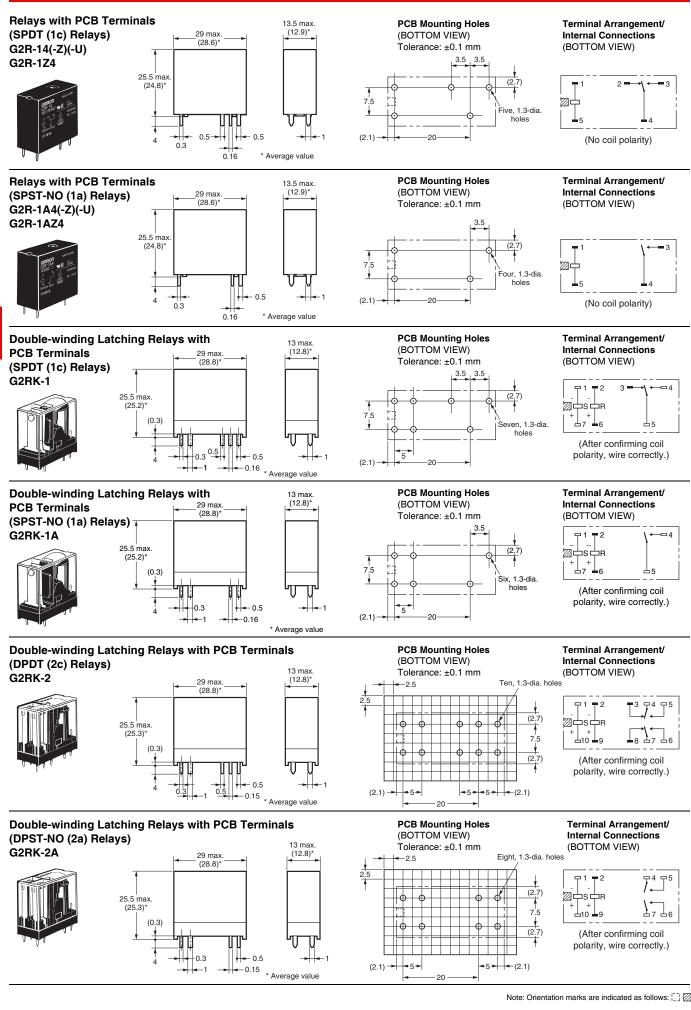


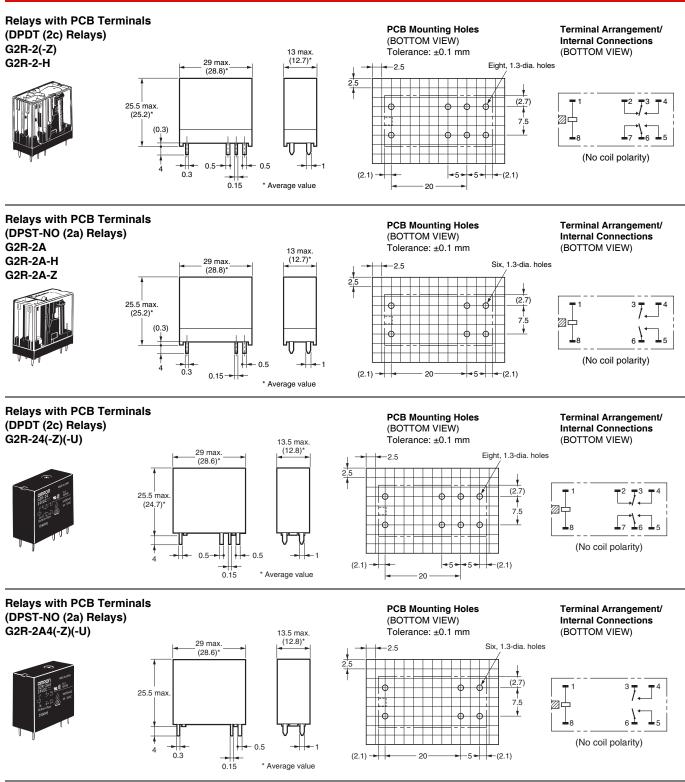


Note: Orientation marks are indicated as follows:

G 2 R

PCB Power Relay

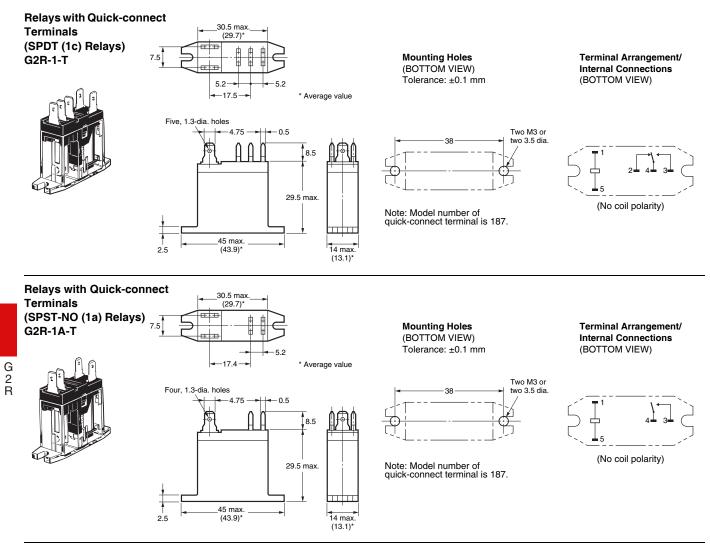




Note: Orientation marks are indicated as follows: $\begin{bmatrix} - \\ - \end{bmatrix}$

G 2

R



Note: Orientation marks are indicated as follows:

■Approved Standards

• The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

UL Recognized: S File No. E41643 1-pole

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	
G2R-1A			10 A, 250 VAC (General Use) at 40°C	100,000	
G2R-1A4	SPST-NO (1a) SPDT		,		
G2R-1A-H		5 to 110 VDC 12 to 220 VAC	5 A, 277 VAC (General Use) at 40°C	6,000	
G2R-1A-T			10 A, 30 VDC		
G2R-1			(Resistive) at 40°C	100,000	
G2R-14			,		
G2R-1-H	(1c)		TV-3 (N. O. only) at	25,000	
G2R-1-T			40°C	23,000	
G2R-1AZ	SPST-NO		5 A, 250 VAC (General		
G2R-1AZ4	(1a)	5 to 110 VDC	Use) at 40°C	6,000	
G2R-1Z	SPDT	12 to 220 VAC	5 A, 30 VDC (Resistive)	0,000	
G2R-1Z4	(1c)		at 40°C		
G2R-1A-E	SPST-NO (1a)		16 A, 250 VAC (General Use) at 40°C	30,000	
G2R-1-E	SPDT	5 to 110 VDC 12 to 220 VAC	16 A, 30 VDC (Resistive) at 40°C	6,000	
GZN-I-E	(1c)		TV-3 (N. O. only) at 40°C	25,000	

2-pole

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G2R-2A	DPST-NO (2a)	5 to 110 VDC	5 A, 250 VAC (General Use) at 40°C 6,000	
G2R-2A4				0,000
G2R-2A-H				100,000
G2R-2	DPDT (2c)	12 to 220 VAC		
G2R-24				25.000
G2R-24-H	(=0)		40°C	25,000

CSA Certified: IFile No. LR31928

1-pole

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G2R-1A	SPST-NO (1a)	5 to 110 VDC 12 to 220 VAC	10 A, 250 VAC (General Use) at 40°C	100,000
G2R-1A4				
G2R-1A-H				
G2R-1A-T			10 A, 30 VDC (Resistive) at 40°C	100,000
G2R-1	SPDT (1c)			
G2R-14				
G2R-1-H			TV-3 (N. O. only) at 40°C	25,000
G2R-1-T				
G2R-1AZ	SPST-NO	(1a) 5 to 110 VDC	5 A, 250 VAC (General Use) at 40°C	6,000
G2R-1AZ4	(1a)			
G2R-1Z	SPDT		5 A, 30 VDC (Resistive) at 40°C	
G2R-1Z4	(1c)			
G2R-1A-E	SPST-NO (1a)		16 A, 250 VAC (General Use) at 40°C	
G2N-TA-L		5 to 110 VDC	16 A, 30 VDC	6,000
	SPDT	12 to 220 VAC	(Resistive) at 40°C	
G2R-1-E	(1c)		TV-3 (N. O. only) at 40°C	25,000

2-pole

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G2R-2A	DPST-NO (2a)	5 to 110 VDC	5 A, 250 VAC (General Use) at 40°C	6,000
G2R-2A4				
G2R-2A-H			5 A, 30 VDC (Resistive)	100,000
G2R-2	DPDT (2c)	12 to 220 VAC	at 40°C	100,000
G2R-24			TV-3 (N. O. only) at	25.000
G2R-24-H			40°C	20,000

EN/IEC, VDE Certified: Certificate No. 40015012

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G2R-1(A)-E	1	5, 6, 12, 24, 48, 100 VDC 12, 24, 100/110, 200/220 VAC	16 A, 250 VAC (cosφ = 1.0) at 70°C	
G2R-()		5, 6, 12, 24, 48, 100 VDC	10 A, 250 VAC (cosφ = 1.0) at 40°C	
	1	12, 24, 100/110, 200/220 VAC	10 A, 30 VDC (0 ms) at	100,000
		2 5, 6, 12, 24, 48, 100 VDC 12, 24, 100/110, 200/220 VAC	5 A, 250 VAC (cosφ = 1.0) at 40°C	
	2		5 A, 30 VDC (0 ms) at 40°C	

EN, TÜV Certified: Registration No. R50030327

Model	Contact form	Coil ratings	Contact ratings	Number of test operations
G2R-1(A)-E	1	5 to 110 VDC 12 to 220 VAC	16 A, 250 VAC (cosφ = 1.0) at 70°C	
G2R-()	1	5 to 110 VDC	10 A, 250 VAC (cosφ = 1.0) at 70°C	100,000
	I	12 to 220 VAC	10 A, 30 VDC (0 ms) at 70°C	
	2	5 to 110 VDC	5 A, 250 VAC (cosφ = 1.0) at 40°C	
	2	12 to 220 VAC	5 A, 30 VDC (0 ms) at 40°C	

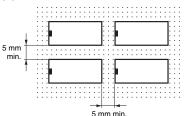
Precautions

● Please refer to "PCB Relays Common Precautions" for correct use.

Correct Use

Mounting

 When mounting a number of relays on a PCB, be sure to provide a minimum mounting space of 5 mm between the two juxtaposed relays as shown below.



Handling

- The terminals are compatible with Faston receptacle #187 and are suitable for positive-lock mounting. Use only Faston terminals with the
- specified numbers.
- Select leads for connecting Faston receptacles with wire diameters that are within the allowable range for the load current.

Do not apply excessive force to the terminals when mounting or dismounting the Faston receptacle. Also, do not insert terminals at an angle, or insert/remove multiple terminals at the same time. Be sure to insert and remove terminals carefully one at a time. Refer to the following table for examples of positive-lock connectors made by AMP. Contact the manufacturer directly for details on connectors including availability.

Туре	Receptacle terminals	Positive housing
#187 (Width 4.75)	AMP170330-1 (170324-1) AMP170331-1 (170325-1) AMP170332-1 (170326-1)	AMP172074-1 (natural color) AMP172074-4 (yellow) AMP172074-5 (green) AMP172074-6 (blue)

Note: The numbers shown in parentheses are for air-feeding.

Minimum Pulse Width of Doublewinding Latching Relays

- The minimum pulse width shown in the table of characteristics are values measured under conditions of ambient temperature at 23°C with rated operating voltage imposed on coil. The Relay may not provide a satisfactory performance as its holding ability decreases depending on the operating circuit conditions and ambient temperature, or decreases due to degradation over time. In actual operation, impose to the coil a rated operating voltage with a pulse width that is suitable to the actual load, and reset the setting at least once a year, to correspond to the degradation over time.
- When using the Relay in a strong magnetic field environment, the magnetic body may be demagnetized due to the influence of environment, causing the Relay to malfunction.

Therefore, do not use the Relay in a strong magnetic field environment.

Degradation over Time of Doublewinding Latching Relays Holding Ability

- If a double-winding latching Relay is used left set for an extended period, changes over time will degrade the magnetic force, and the reduction in holding ability may cause the set status to be released. This is also because of the properties of semi-hard magnetic material, and the rate of degradation over time depends on the ambient environment (e.g., temperature, humidity, vibration, and presence or absence of external magnetic fields).Perform maintenance at least once a year by resetting, applying the rated voltage again, and then setting.
- Wiring High Capacity (-E) Models
- High-capacity models (-E) have a structure that connects two terminals from one contact.

When designing the circuit, use both terminals.

If you use only one terminal, the relay may be unable to satisfy specified performance.

Please check each region's Terms & Conditions by region website.

OMRON Corporation Electronic and Mechanical Components Company

Regional Contact

Americas https://www.components.omron.com/ Asia-Pacific https://ecb.omron.com.sg/ Korea https://www.omron-ecb.co.kr/ Europe http://components.omron.eu/ China https://www.ecb.omron.com.cn/ Japan https://www.omron.co.jp/ecb/

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In the interest of product improvement, specifications are subject to change without notice.

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