OMRON



A Miniature Power Relay with 1-pole 10 A for various loads.

- Reduced power consumption with voltage holding and pulse width modulation (PWM) control. (-PW Model)
- Latching types that can contribute to energy saving are available.
- TV-8 rating (117 A inrush current), E-ballast rating (UL 508) conformed. (-HR Model)
- IEC 60079-1, IEC 60079-15 complied. (Exclude -HR Model)
- IEC/EN 60335-1 complied. (-HA Model)



Model Number Legend

G5Q _____

1 2 3 4 5 6 7 8

1. Relay Function None : Single-side stable

- U : Single-winding latching
- K : Double-winding latching
- R . Double winding late

2. Number of Poles

1 : 1-pole

3. Contact Form None : SPDT (1c) A : SPST-NO (1a)

4. Enclosure Rating

- None : Flux protection
- 4 : Sealed

Application Examples

- Output of control system
- Home appliances
- Lighting control
- · Building automation
- FA I/O module

5. Classification

- None : Standard
- EU : High-capacity EL : For Resistive load
- EL2 : For Inrush load (TV-3)
- EL3 : For Motor load
- HR : For High Inrush load (TV-8)

6. Market Code

None : General purpose HA : Home Appliance according to IEC/EN 60335-1

7. Case Vent Hole None : No vent hole

VH : Vent hole

8. Special Requirement

- None : Not supported
- PW : Supported for holding voltage, PWM control.

■Ordering Information

Classification	Relay Function	Contact Form	Enclosure Rating	Model	Rated Coil Voltage	Minimum Packing Unit
				G5Q-1A	5, 9, 12, 24 VDC	
				G5Q-1A-PW	5, 12, 24 VDC	
G5Q-1A		SPST-NO(1a)	Flux protection	G5Q-1A-HA	5, 12, 24 VDC	
				G5Q-1A-HA-PW	5, 12, 24 VDC	
	Single-side stable		Sealed	G5Q-1A4	5, 9, 12, 24 VDC	
	Single-side stable			G5Q-1	5, 9, 12, 24 VDC	
				G5Q-1-PW	5, 12, 24 VDC	
G5Q-1		SPDT(1c)	Flux protection	G5Q-1-HA	5, 12, 24 VDC	
				G5Q-1-HA-PW	5, 12, 24 VDC	100 pcs/tray
			Sealed	G5Q-14	5, 9, 12, 24 VDC	
	Single-side stable	SPST-NO(1a)	Flux protection	G5Q-1A-EU	5, 12, 24 VDC	
			r lux protection	G5Q-1A-EU-HA	12, 24 VDC	
-EU type			Sealed	G5Q-1A4-EU	5, 12, 24 VDC	
(High-capacity)			Flux protection	G5Q-1-EU	5, 12, 24 VDC	
		SPDT(1c)	Flux protection	G5Q-1-EU-HA	12, 24 VDC	
			Sealed	G5Q-14-EU	5, 12, 24 VDC	
-EL type (For Resistive load)	Single-side stable	SPST-NO(1a)	Flux protection	G5Q-1A-EL-HA-VH	5, 12, 24 VDC	
-EL2 type (For Inrush load)	Single-side stable	SPST-NO(1a)	Sealed	G5Q-1A4-EL2-HA	5, 12, 24 VDC	
-EL3 type (For Motor load)	Single-side stable	SPST-NO(1a)	Sealed	G5Q-1A4-EL3-HA	5, 12, 24 VDC	
	Single-side stable	SPST-NO(1a)	Flux protection	G5Q-1A-HR-HA-VH	3, 5, 12, 24 VDC	
-HR type (For High Inrush load)	Single-winding latching	SPST-NO(1a)	Flux protection	G5QU-1A-HR-HA-VH	3, 5, 12, 24 VDC	
, 3	Double-winding latching	SPST-NO(1a)	Flux protection	G5QK-1A-HR-HA-VH	3, 5, 12 VDC	

G 5 Q

Note 1. When ordering, add the rated coil voltage to the model number. Example: G5Q-1A DC5

- Rated coil voltage

Note 2. Contact your OMRON sales representative for tube packing models (40 pcs./tube). (Exclude -HR Model)

Ratings

●Coil: G5Q-1A(-EU) Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
5 VDC	40.0	125				
9 VDC	22.2	405	75% max.	5% min. 5 to 34%*1	190% (at 23°C)	approx. 200 approx. 32*1
12 VDC	16.7	720	75% max.			
24 VDC	8.3	2,880				

●Coil: G5Q-1(-EU) Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
5 VDC	80.0	63				
9 VDC	44.4	202	75% mov	5% min.	190%	approx. 400
12 VDC	33.3	360	75% max.	5 to 25%*1	(at 23°C)	approx. 36*1
24 VDC	16.7	1,440				

●Coil: G5Q-EL,-EL2,-EL3 Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
5 VDC	80.0	63			190%	
12 VDC	33.3	360	75% max.	5% min.	(at 23°C)	approx. 400
24 VDC	16.7	1,440]		(al 23 C)	

Coil: G5Q-HR, Single-side stable Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)
3 VDC	150.0	20				
5 VDC	90.0	56	75% mov	5% min.	180%	approx. 450
12 VDC	37.5	320	75% max.	J 70 IIIIII.	(at 23°C)	approx. 450
24 VDC	18.8	1,280				

•Coil: G5Q-HR, Single-winding latching Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power consumption (mW)
3 VDC	133.3	23				
5 VDC	80.0	63	75% max	75% max.	150%	approx. 400
12 VDC	33.3	360	75% max.	75% max.	(at 23°C)	approx. 400
24 VDC	16.7	1,440				

Coil: G5Q-HR, Double-winding latching Type

Rated voltage	Rated current (mA)	Coil resistance (Ω)	Must set voltage (V)	Must reset voltage (V)	Max. voltage (V)	Power consumption (mW)
3 VDC	266.7	11			4500/	
5 VDC	160.0	31	75% max.	75% max.	150% (at 23°C)	approx. 800
12 VDC	66.7	180			(0(20 0)	

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

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

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

*1. Power consumption with holding voltage are Approx. 32 mW for 1a and Approx. 36 mW for 1c. Please confirm the detail on page 12 Coil Voltage Reduction (Holding Voltage) after Relay operation.

Contacts

G5Q-1(A)(-EU)Type

Item	SF	PST-NO (1a)		SPDT (1c)						
	G5Q-1A	-EU type (High-capacity)	G5Q-1	-EU type (High-capacity)						
Contact type	Single	·								
Contact material	Ag-Alloy (Cd free)	g-Alloy (Cd free)								
Rated load	10 A at 125 VAC 3 A at 125 VAC 5 A at 250 VAC 3 A at 250 VAC 5 A at 30 VDC	10 A at 250 VAC 10 A at 125 VAC 3 A at 125 VAC 5 A at 250 VAC 3 A at 250 VAC 5 A at 250 VAC 5 A at 30 VDC	10 A at 125 VAC (NO) 3 A at 125 VAC (NO) 5 A at 250 VAC (NO) 3 A at 250 VAC (NO) 5 A at 30 VDC (NO) 3 A at 125 VAC (NC) 3 A at 250 VAC (NC) 3 A at 30 VDC (NC)	10 A at 250 VAC (NO) 10 A at 125 VAC (NO) 3 A at 125 VAC (NO) 5 A at 250 VAC (NO) 3 A at 250 VAC (NO) 5 A at 250 VAC (NO) 3 A at 125 VAC (NC) 3 A at 250 VAC (NC) 3 A at 30 VDC (NC)						
Rated carry current	10 A (NO)/3 A (NC)			R						
Max. rated voltage	277 VAC, 30 VDC									
Max. rated current	AC: 10 A (NO)/3 A (NC) DC: 5 A (NO)/3 A (NC)									

G5Q-EL, -EL2, -EL3, -HR Type

Item	-EL type (For Resistive load)	-EL2 type (For Inrush load TV-3)	-EL3 type (For Motor load)	-HR type (For High Inrush load TV-8)					
Contact type	Single	Single							
Contact material	Ag-Alloy (Cd free)								
Rated load	Resistive load: 10 A at 250 VAC	Capacitive load: Inrush 40 A (100 μs)/ 1 A break at 250 VAC	Motor load: Inrush 30 A (0.5 s)/ 3 A break cosø=0.5 at 250 VAC	Resistive load: 10 A at 277 VAC 8 A at 277 VAC					
Rated carry current	10 A								
Max. rated voltage	277 VAC								
Max. rated current	AC: 10 A								

■Characteristics

							-HR type (For Ir	rush load TV-8)
Item		G5Q-1(A)	-EU type (High-capacity)	-EL type (For Resistive load)	-EL2 type (For Inrush load TV-3)	-EL3 type (For Motor load)	Single-side stable	Single-winding latching Double-winding latching
	sistance *1	100 mΩ max.						
Operate (s	,	10 ms max.						15 ms max.
Release (r	,	5 ms max.						15 ms max.
	set pulse width							30 ms
Max. set/re width	•							
Insulation	resistance *2	1,000 MΩ min.						
-	Between coil and contacts	4,000 VAC, 50/60 Hz f	or 1 min					
Dielectric strength	Between contacts of the same polarity	1,000 VAC, 50/60 Hz f	ör 1 min					
Impulse withstand voltage	Between coil and contacts	8 kV (1.2 x 50 μs)						
Vibration	Destruction	10 to 55 to 10 Hz, 0.75	5 mm single amplitude	(1.5 mm double ar	mplitude)			
resistance	Malfunction	10 to 55 to 10 Hz, 0.75	5 mm single amplitude	(1.5 mm double ar	mplitude)			
Shock	Destruction	1,000 m/s²						
resistance	Malfunction	100 m/s²						
	Mechanical	10,000,000 operations		ns per hour)				1,000,000 operations min (18,000 operations per hour)
Durability	Electrical	 NO 50,000 operations min: 10 A at 125 VAC resistive load (operation: ON for 1 s, OFF for 3 s) 200,000 operations min: 3 A at 125 VAC resistive load 50,000 operations min: 5 A at 250 VAC resistive load 100,000 operations min: 3 A at 250 VAC resistive load 100,000 operations min: 5 A at 30 VDC resistive load (operation: ON for 1 s, OFF for 1 s) NC 200,000 operations min: 3 A at 250 VAC resistive load (operation: ON for 1 s, OFF for 1 s) NC 200,000 operations min: 3 A at 250 VAC resistive load 100,000 operations min: 3 A at 250 VAC resistive load 100,000 operations min: 3 A at 30 VDC resistive load (operation: ON for 1 s, OFF for 1 s) 	 NO 25,000 operations min: 10 A at 250 VAC resistive load (operation: ON for 1 s, OFF for 3 s) 50,000 operations min: 10 A at 125 VAC resistive load 200,000 operations min: 3 A at 125 VAC resistive load 50,000 operations min: 5 A at 250 VAC resistive load 100,000 operations min: 3 A at 250 VAC resistive load 100,000 operations min: 5 A at 30 VDC resistive load (operation: ON for 1 s, OFF for 1 s) NC 200,000 operations min: 3 A at 250 VAC resistive load (operation: ON for 1 s, OFF for 1 s) 	Resistive load 100,000 operations min (operation: ON for 1 s. OFF for 9 s.)	Capacitive load 100,000 operations min (operation: ON for 1 s. OFF for 3 s.)	Motor load 300,000 operations min (operation: ON for 1 s. OFF for 1 s.)	50,000 operation: 8 A at 277 VAC ro 10,000 operation: 10 A at 277 VAC (operation: ON fo OFF for 9 s)	esistive load s min: resistive load

G5Q

PCB Power Relay

						-HR type (For In	rush load TV-8)	
Item	G5Q-1(A)	-EU type (High-capacity)	-EL type (For Resistive load)	-EL2 type (For Inrush load TV-3)	-EL3 type (For Motor load)	Single-side stable	Single-winding latching Double-winding latching	
Failure rate (P level) (reference *3)	10 mA at 5 VDC							
Ambient operating temperature	-40°C to 105°C (with no icing or condensation)	(with no icing or (with no icing or condensation)						
Ambient operating humidity	5% to 85%							
Weight	Approx. 6.5 g Approx. 6.7 g Approx. 6.0					Approx. 6.0 g		
Note. Values in the above t	able are the initial value	es at 23°C.						

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

*2. Testing conditions: The insulation resistance was measured with a 500 VDC megohmmeter at the same locations as the dielectric strength was measured.

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

■Actual Load Life (Reference Values)

G5Q-1A4-EL2-HA

G5Q-1A4-EL3-HA

120 VAC Capacitive load Inrush: 56 A (0_P), Break: 0.2 A (rms) 200,000 operations min. (Ambient temperature: 23°C)

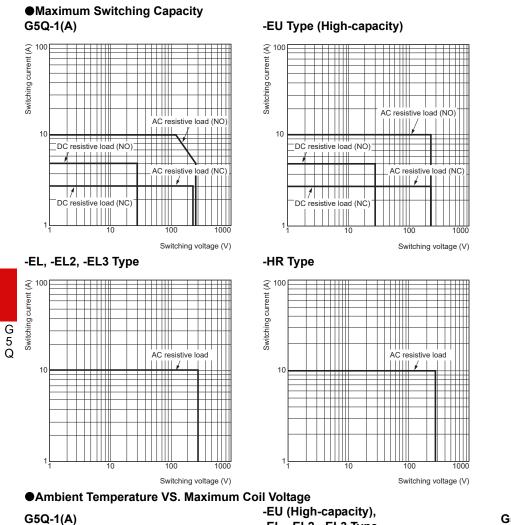
G5Q-1A-HR-HA-VH

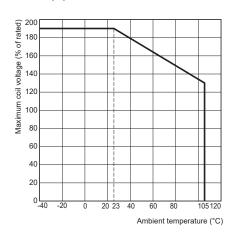
250 VAC Capacitive load Inrush: 160 A (0_P), Break: 3 A (rms) 10,000 operations min. (Ambient temperature: 23°C) 250 VAC Inductive load Inrush: 30 A (0_P)/ 0.5 s, Break: 1.7 A (rms) 500,000 operations min. (Ambient temperature: 30°C)

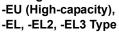
G5QU/K-1A-HR-HA-VH

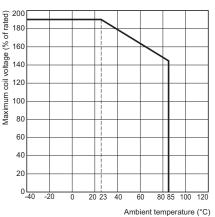
250 VAC Capacitive load Inrush: 160 A (0_P), Break: 3 A (rms) 50,000 operations min. (Ambient temperature: 23°C)

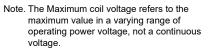
Engineering Data



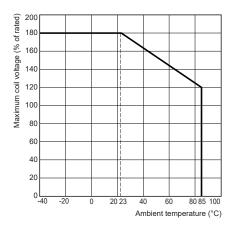






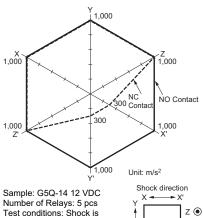


G5Q-1A-HR-HA-VH



G5(

Shock Malfunction G5Q-1(A)

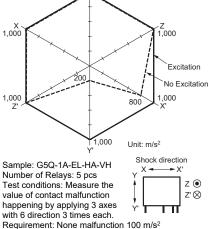


applied in $\pm X$, $\pm Y$, and $\pm Z$ Z' 🚫 directions three times each with and without energizing the Relays to check the number of malfunctions.

The energized voltage is 100% of the rated voltage. Requirement: None malfunction 100 m/s²

G5Q-1A-HR-HA-VH

-EL, -EL2, -EL3 Type



1,000

1,000

1,000

`Set

1,000

Shock direction

► X'

z 💿

Z'⊗

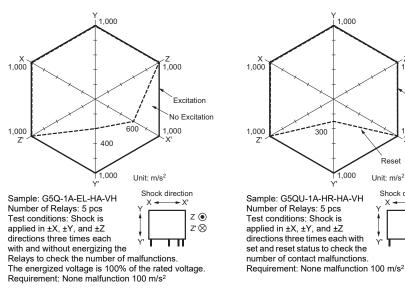
Reset

Unit: m/s²

Х

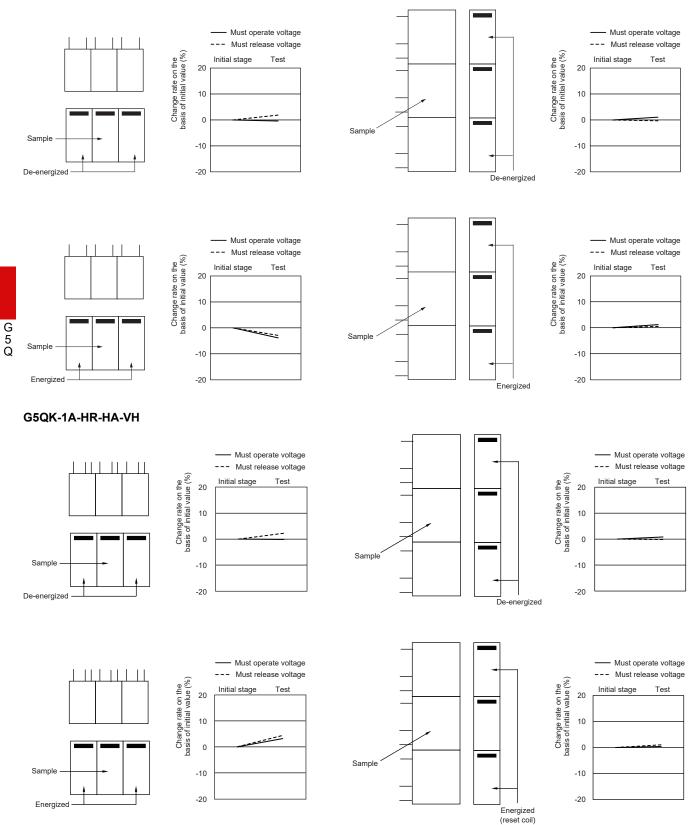
1,000

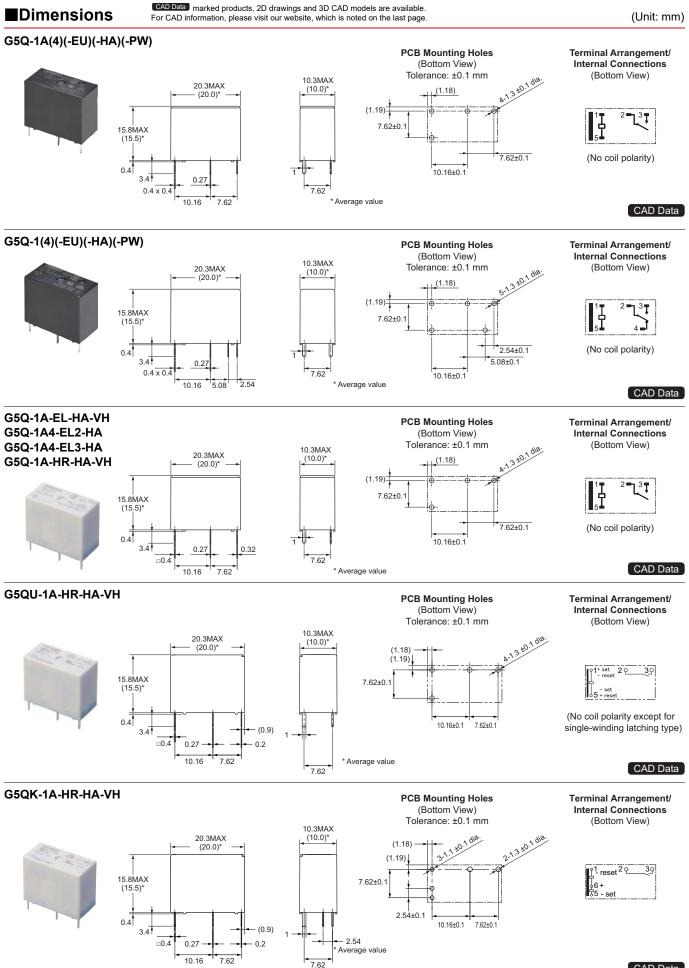
G5QU/K-1A-HR-HA-VH



G 5 Q

●Mutual Magnetic Interference G5QU-1A-HR-HA-VH





CAD Data

G 5 Q

■Approved Standards

UL Recognized: **N** CSA Certified: G5Q-1(A)(-EU)

G5Q-EL, EL2, EL3

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	File No.	
			10 A 250 VAC N.O. only (Resistive) 105°C	6,000		
			10 A 30 VDC N.O. only (Resistive) 105°C			
G5Q-1(A)	SPST-NO(1a) SPDT(1c)	5 to 24 VDC	4 A 250 VAC N.O. only (Resistive) 85°C	100,000	UL: E41515 CSA: LR31928	
	0.2.()		3 A 250 VAC N.C. only (Resistive) 105°C	6,000	0011121101020	
			3 A 30 VDC N.C. only (Resistive) 105°C	6,000		
			10 A 250 VAC N.O. only (Resistive) 105°C	6,000		
		5 to 24 VDC	10 A 30 VDC N.O. only (Resistive) 105°C	6,000		
G5Q-1(A)-EU (High-capacity)	SPST-NO(1a) SPDT(1c)		4 A 250 VAC N.O. only (Resistive) 85°C	100,000	UL: E41515 CSA: LR31928	
(ingli suparity)	0.2.(.0)		3 A 250 VAC N.C. only (Resistive) 105°C	6,000		
			3 A 30 VDC N.C. only (Resistive) 105°C	30 VDC N.C. only (Resistive) 105°C 6,000		
G5Q-1A-EL-HA-VH	SPST-NO(1a)	5, 12, 24 VDC	10 A 250 VAC (Resistive) 40°C	6,000	UL: E41515 CSA: LR31928	
			5 A 250 VAC (Resistive) 85°C	6,000		
G5Q-1A4-EL2-HA	SPST-NO(1a)	5, 12, 24 VDC	TV-3 (Peak Inrush 51 A / Break 3 A 120 VAC) 40°C	25,000	UL: E41515 CSA: LR31928	
			1 A 120 VAC 30 A Inrush-max. 1 ms 85°C	25,000	0011121101020	
			10 A 250 VAC (Resistive) 40°C	50,000		
G5Q-1A4-EL3-HA	SPST-NO(1a)	5, 12, 24 VDC	C 1/2HP 250 VAC 40°C 50,000		UL: E41515 CSA: LR31928	
			1/6HP 125 VAC 40°C	50,000	0.0, 2.101020	

UL/C-UL Recognized: CAL us

G5Q-HR

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	File No.
G5Q-1A-HR-HA-VH		3, 5, 12, 24 VDC	8 A 277 VAC (Resistive) 85°C	50,000	E41515
	SPST-NO(1a)		10 A 277 VAC (Resistive) 85°C	10,000	
	5P51-NO(1a)		TV-8 (Peak Inrush 117 A / Break 8 A 120 VAC) 40°C	25,000	
			3 A 277 VAC (E Ballast) 40°C	6,000	
G5QU-1A-HR-HA-VH		3, 5, 12, 24 VDC	8 A 277 VAC (Resistive) 85°C	50,000	E41515
	SPST-NO(1a)		10 A 277 VAC (Resistive) 85°C	10,000	
	SPS1-NO(1a)		TV-8 (Peak Inrush 117 A / Break 8 A 120 VAC) 40°C	25,000	
			5 A 277 VAC (E Ballast) 40°C	6,000	
G5QK-1A-HR-HA-VH		3, 5, 12 VDC	8 A 277 VAC (Resistive) 85°C	50,000	E41515
	SPST-NO(1a)		10 A 277 VAC (Resistive) 85°C	10,000	
	SPST-NO(Ta)		TV-8 (Peak Inrush 117 A / Break 8 A 120 VAC) 40°C	25,000	
			5 A 277 VAC (E Ballast) 40°C	6,000	

G5Q

EN/IEC, VDE (65Q-1(A)(-EU)) G5Q-EL, -EL2, -EL3 G5Q-HR

Model	Contact form	Coil ratings	Contact ratings	Number of test operations	Certification No.	
G5Q-1(A)	SPST-NO (1a) SPDT (1c)	5 to 24 VDC	10 A 250 VAC (cos∳=1) (N.O.) 105°C 5 A 30 VDC (0 ms) (N.O.) 105°C 3 A 30 VDC (0 ms) (N.C.) 105°C	10,000	40009467	
G5Q-1 (A) -EU (High-capacity)	SPST-NO (1a) SPDT (1c)	5 to 24 VDC	10 A 250 VAC (cos∳=1) (N.O.) 105°C 5 A 30 VDC (0 ms) (N.O.) 105°C 3 A 30 VDC (0 ms) (N.C.) 105°C	10,000	40009467	
G5Q-1A-EL-HA-VH	SPST-NO (1a)	5, 12, 24 VDC	10 A 250 VAC (coso=1) 105°C	10,000	40009467	
G5Q-1A4-EL2-HA	SPST-NO (1a)	5, 12, 24 VDC	5 A 250 VAC (cosφ=1) 85°C	10,000	40009467	
	3F31-NO (1a)		Peak Inrush 30 A / Break 1 A 230 VAC 85°C	25,000	40009407	
G5Q-1A4-EL3-HA	SPST-NO (1a)	5, 12, 24 VDC	3 A 250 VAC (cosφ=0.4) 85°C	50,000	40009467	
G5Q-1A-HR-HA-VH G5QU-1A-HR-HA-VH		3, 5, 12, 24 VDC	8 A 277 VAC (Resistive) 85°C	50,000	40058560	
	SPST-NO (1a)		10 A 277 VAC (Resistive) 85°C	10,000		
			IEC60669-1: 3 A 277 VAC Capacitor 35 μF room temperature	5,000		
G5QK-1A-HR-HA-VH		3, 5, 12 VDC	8 A 277 VAC (Resistive) 85°C	50,000		
	SPST-NO (1a)		10 A 277 VAC (Resistive) 85°C	10,000	40058560	
			IEC60669-1: 3 A 277 VAC Capacitor 35 μF room temperature	5,000		

Item	G5Q-1(A), -EU (High-capacity) type	-EL, -EL2, -EL3 type	-HR type	
Creepage Distance	6.4 mm min.	6.4 mm min.	6.4 mm min.	
Clearance Distance	5.5 mm min.	5.5 mm min.	5.5 mm min.	
Insulation Material Group	Illa	Illa	Illa	
Type of Insulation Coil-contact Circuit Open Contact Circuit	Basic (Rated voltage 400 V)/ Reinforced (Rated voltage 250 V) Micro disconnection	Reinforced (Rated voltage 250 V) Micro disconnection	Reinforced (Rated voltage 277 V) Micro disconnection	
Rated Insulation Voltage	250 V	250 V	320 V	
Pollution Degree	2	2	2	
Rated Voltage	250 V/400 V(EU flux type only)	250 V	277 V	
Over Voltage Category	III	111		
Category of Protection according to IEC 61810-1	RTII (Flux protection)/RTIII (Sealed)	RTII (Flux protection)/RTIII (Sealed)	RTII (Flux protection)	
Glow Wire according to IEC 60335-1	<ha models="" only="">GWT 750°C min. (IEC 60695-2-11)/GWFI 850°C min. (IEC 60695-2-12)</ha>	GWT 750°C min. (IEC 60695-2-11)/ GWFI 850°C min. (IEC 60695-2-12)	GWT 750°C min. (OEC 60695-2-11)/ GWTFI 850°C min. (IEC 60695-2-12)	
Tracking Index of Relay Base	king Index of Relay Base PTI 250 V min.		PTI 277 V min.	
Flammability Class according to UL 94	V-0	V-0	V-0	
Coil Insulation System	F Class(UL 1446)	F Class(UL 1446)	F Class(UL 1446)	

Precautions

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

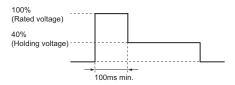
Precautions for Safe Use

- Drop the Relay
- The relay may not work properly. Do not use the relay that has dropped.

Correct Use

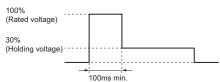
- Coil Voltage Reduction (Holding Voltage) after Relay operation
- If the coil voltage is reduced to the holding voltage after relay operation, first apply the rated voltage to the coil for at least 100 ms, as shown below.
- A voltage of at least 40% (G5Q-1A type) /30% (G5Q-1 type) of the rated voltage is required for the coil holding voltage.
 Do not allow voltage fluctuations to cause the coil holding voltage to fall below this level.

G5Q-1A



G5Q-1

G 5 Q



G5Q-1A

	Applied coil voltage	Coil resistance*	Power consumption
Rated voltage	100%	125 Ω (5 VDC) 720 Ω (12 VDC) 2,880 Ω (24 VDC)	Approx. 200 mW
Holding voltage	40%		Approx. 32 mW

 The coil resistance were measured at a coil temperature of 23°C with tolerances of ±10%.

G5Q-1

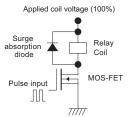
	Applied coil voltage	Coil resistance*	Power consumption
Rated voltage	100%	63 Ω (5 VDC) 360 Ω (12 VDC) 1,440 Ω (24 VDC)	Approx. 400 mW
Holding voltage	30%		Approx. 36 mW

The coil resistance were measured at a coil temperature of 23°C with tolerances of $\pm 10\%$.

- Power consumption reduction of coil with pulse width modulation (PWM)
- Models with PWM drive capability (-PW) can reduce coil holding current with PWM control. This function reduces power consumption by reducing the current held by coil.
- Apply the rated voltage for at least 100 ms at the time of relay operation.
- The following are our verification conditions. When using, it be sure to check the actual machine under the actual usage conditions.

Example of drive circuit

Conditions of validation carried out by OMRON



- Applied voltage: rated voltage
- Duty: 50% or more
- Frequency: 10 kHz or more
- Diode Vf: 0.4 V or less

Basic Operation of Latching Relays

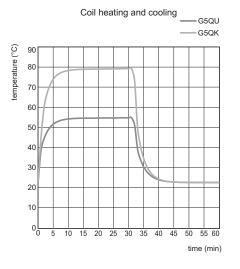
 In these relays, the input pulse of the set coil causes the operating condition to be maintained magnetically or mechanically, whereas the input pulse to the reset coil side puts the relay into the reset condition.

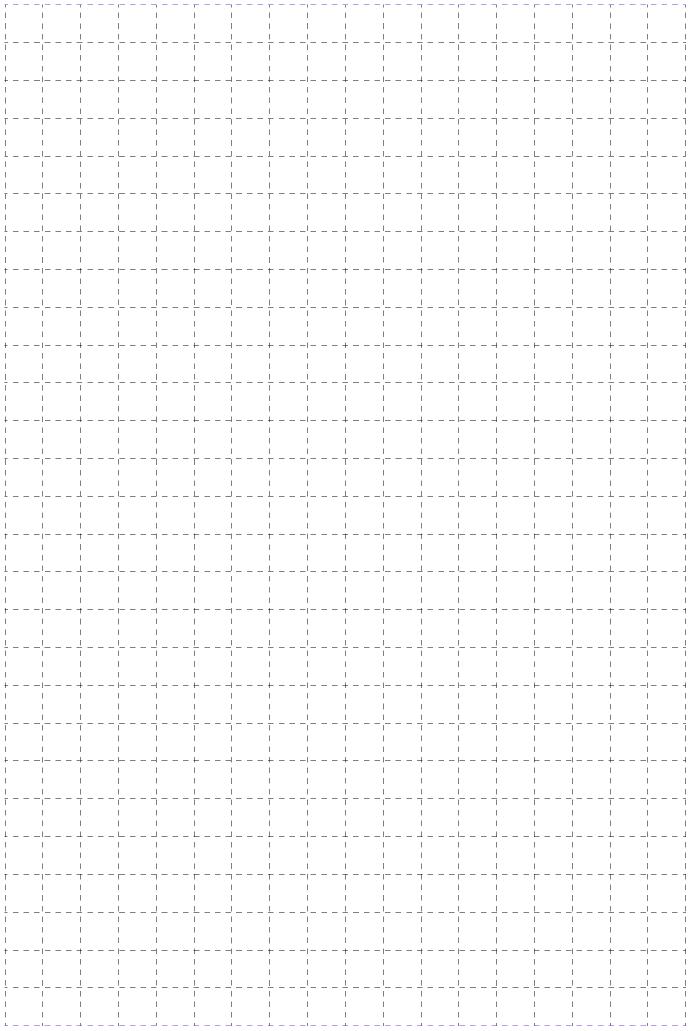


•Coil Temperature Rise of Long Time Continuous Current to the Coil

• When the coil is applied continuous current for a long time, the coil would be heated too much.

Please decide the coil input pulse width by "heat and cold of coil temperature."





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