

Modification notice of change in ambient temperature for power relay G9KA.

NOTE:

This PCN is intended for use exclusively in EUROPE, Middle East and Africa.

[Target Products]

•G9KA series

< Refer to the " [Details of applicable model] " . >

[Effective Date]

Effective as of our production in November, 2026.

[Reason for change]

Others (Ambient temperature upper limit expansion.)

[Changes]



Before the change

Catalog data sheet

• Ambient temperature 85° C

● Contacts

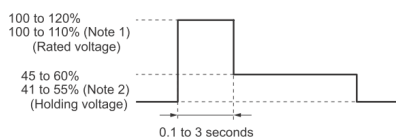
Item		Standard model	High-capacity model	
		G9KA-1A	G9KA-1A-E	G9KA-1A1B-E
Rated load (resistive load)	Main contact	800 VAC making 50 A, carrying 260 A, breaking 50 A/ 800 VAC making 150 A, carrying 260 A, breaking 260 A/200 A at 60 VDC	1,000 VAC making 50 A, carrying 300 A, breaking 50 A/ 1,000 VAC making 150 A, carrying 300 A, breaking 300 A	
	Auxiliary contact	—	—	1 A at 30 VDC
Rated carry current	Main contact	260 A	300 A	
	Auxiliary contact	—	—	1A

Characteristics

model	Standard model	High-capacity model	
	G9KA-1A	G9KA-1A-E	G9KA-1A1B-E
Electrical (Resistive) *4	800 VAC making 50 A, carrying 260 A, breaking 50 A; 30,000 operations min. 800 VAC making 150 A, carrying 260 A, breaking 260 A; 10 operations min. 200 A at 60 VDC; 2,000 operations min. (Switching frequency: 1 second ON - 9 seconds OFF at 85°C)	1,000 VAC making 50 A, carrying 300 A, breaking 50 A; 30,000 operations min. 1,000 VAC making 150 A, carrying 300 A, breaking 300 A; 10 operations min. (Switching frequency: 1 second ON - 9 seconds OFF at 85°C)	Main contact: 1,000 VAC making 50 A, carrying 300 A, breaking 50 A; 30,000 operations min. 1,000 VAC making 150 A, carrying 300 A, breaking 300 A; 10 operations min. Auxiliary contact: 1 A at 30 VDC; 100,000 operations min. (Switching frequency: 1 second ON - 9 seconds OFF at 85°C)
Coil holding voltage *6	45% to 60% of rated coil voltage		41% to 55% of rated coil voltage
Ambient operating temperature	-40°C to +85°C (with no icing or condensation)		
Ambient operating humidity	5% to 85%		

● Coil Voltage Reduction (holding voltage) after Relay Operation

- Use this relay with coil voltage reduction.
- Apply the rated voltage for 0.1 to 3 seconds to the coil first.
- The range of coil rated voltage must be set as 100 to 120% (100 to 110% for the G9KA-1A1B-E only), and holding voltage must be 45 to 60% (41 to 55% for G9KA-1A1B-E only). Do not exceed the ranges due to the change of coil voltage change and so on.



Note 1. 100 to 110% for G9KA-1A1B-E only.

Note 2. 41 to 55% for G9KA-1A1B-E only.

After the change

Catalog data sheet

• Ambient temperature 85° C

(Usage restrictions: 105°C)

● Contacts

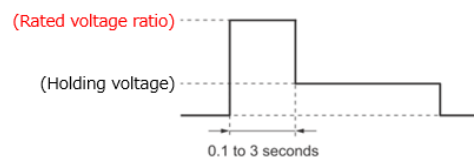
Item		Standard model	High-capacity model	
		G9KA-1A	G9KA-1A-E	G9KA-1A1B-E
Rated load (resistive load)	Main contact	800 VAC making 50A, carrying 260 A, breaking 50 A (85°C) 800 VAC making 150A, carrying 260 A, breaking 260 A (85°C) 200 A at 60 VDC (85°C) 800 VAC making 50A, carrying 180 A, breaking 50 A (105°C)	1,000 VAC making 50A, carrying 300 A, breaking 50 A (85°C) 1,000 VAC making 150A, carrying 300 A, breaking 300 A (85°C) 1,000 VAC making 50A, carrying 250 A, breaking 50 A (105°C)	
	Auxiliary contact	—	—	1A at 30 VDC (105°C)
Rated carry current	Main contact	260A (85°C) 180A (105°C)	300A (85°C) 250A (105°C)	
	Auxiliary contact	—	—	1A (105°C)

Characteristics

model	Standard model	High-capacity model	
	G9KA-1A	G9KA-1A-E	G9KA-1A1B-E
Electrical (Resistive) *4	800 VAC making 50A, carrying 260A, breaking 50A; 30,000 operations min. (85°C) 800 VAC making 150A, carrying 260A, breaking 260A; 10 operations min. (85°C) 200 A at 60 VDC; 2,000 operations min. (85°C) 800 VAC making 50A, carrying 180A, breaking 50A; 30,000 operations min. (105°C) (Switching frequency: 1 second ON - 9 seconds OFF)	1,000 VAC making 50A, carrying 300A, breaking 50A; 30,000 operations min. (85°C) 1,000 VAC making 150A, carrying 300A, breaking 300A; 10 operations min. (85°C) 800 VAC making 50A, carrying 250A, breaking 50A; 30,000 operations min. (105°C) (Switching frequency: 1 second ON - 9 seconds OFF)	Main contact: 1,000 VAC making 50A, carrying 300A, breaking 50A; 30,000 operations min. (85°C) 1,000 VAC making 150A, carrying 300A, breaking 300A; 10 operations min. (85°C) 1,000 VAC making 50A, carrying 250A, breaking 50A; 30,000 operations min. (105°C) Auxiliary contact: 1 A at 30 VDC; 100,000 operations min. (105°C) (Switching frequency: 1 second ON - 9 seconds OFF)
Coil holding voltage *6	45% to 60%(85°C), 50~55%(105°C) of rated coil voltage		
Ambient operating temperature	-40°C to +105°C (with no icing or condensation)		
Ambient operating humidity	5% to 85%		

● Coil Voltage Reduction (holding voltage) after Relay Operation

- Use this relay with coil voltage reduction.
- Apply the rated voltage for 0.1 to 3 seconds to the coil first.
- Configure the settings so as not to exceed these ranges due to the change of coil voltage difference.



	Ambient temperature 85°C max.	Ambient temperature 85 to 105°C
Rated voltage ratio	100 to 120%	120 to 140%
Holding voltage	45 to 60%	50 to 55%

Note: It will be no changes to the structure or materials of products or parts due to this design change.

[Details of applicable model]

Models / Specification
G9KA-1A DC12
G9KA-1A DC24
G9KA-1A-E DC12
G9KA-1A-E DC24

Models / Specification
G9KA-1A1B-E DC12
G9KA-1A1B-E DC24

Specifications in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.