

Discontinuation Notice of PCB Power Relays G8P Series.

Product Discontinuation

PCB Power Relays



Model G8P-1C Series
Model G8P-1A Series
Model G8P Series DC110



Recommended Replacement

PCB Power Relays

Model G2RL-1-E
Model G4A-1A-(P)E
Model G2R-1(A)-E DC110

[Discontinuation date]

The end of March, 2016

[Caution on recommended replacement]

There are some differences (Dimensions, Wire connection, Mounting Dimensions,).
Therefore, please re-evaluate adequacy with applications.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model G2RL-1-E	**	--	--	--	*	*	**
Model G4A-1A-(P)E	**	--	--	--	*	*	**
Model G2R-1(A)-E	--	--	--	--	*	*	**

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible





- : No corresponding specification

[Product Discontinuation and recommended replacement]

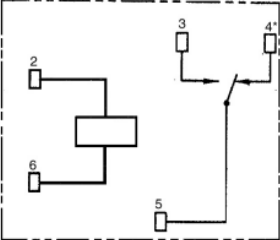
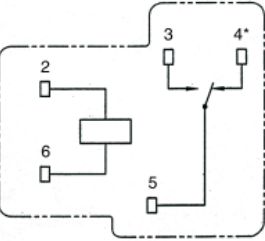
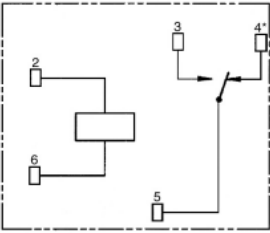
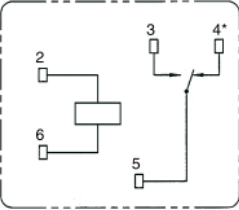
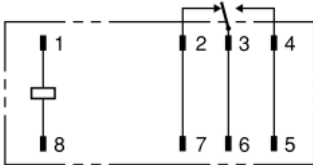
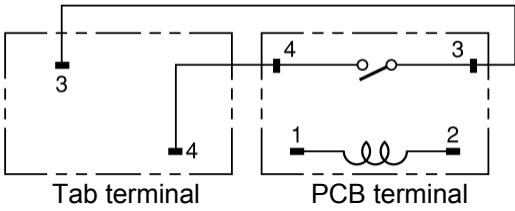
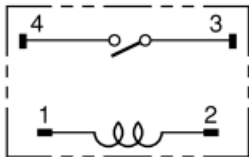
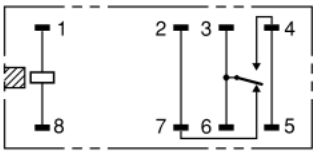
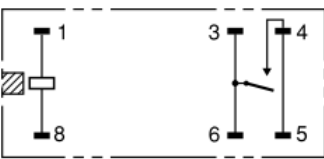
Product discontinuation	Recommended replacement
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G8P-1CTP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1CTP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1CP DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1CP DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1CP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1CP DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1CP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4TP DC9 BY OMZ	G2RL-1-E DC9 BY OMB
G8P-1C4TP DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C4TP DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C4TP DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C4TP DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C4TP DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C4TP DC22 BY OMZ	G2RL-1-E DC22 BY OMB
G8P-1C4TP DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C4TP DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4P DC9 BY OMZ/C	G2RL-1-E DC9 BY OMB
G8P-1C4P DC9 BY OMZ	G2RL-1-E DC9 BY OMB
G8P-1C4P DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C4P DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C4P DC48 BY OMZ/C	G2RL-1-E DC48 BY OMB
G8P-1C4P DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C4P DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C4P DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C4P DC24 BY OMI	G2RL-1-E DC24 BY OMB
G8P-1C4P DC22 BY OMZ	G2RL-1-E DC22 BY OMB
G8P-1C4P DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C4P DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C4P DC12 BY OMI	G2RL-1-E DC12 BY OMB
G8P-1C4P DC110 BY OMZ/C	G2R-1-E DC110 BY OMI
G8P-1C4P DC110 BY OMZ	G2R-1-E DC110 BY OMI
G8P-1C2T-F DC5 BY OMZ/C	G2RL-1-E DC5 BY OMB
G8P-1C2T-F DC5 BY OMZ	G2RL-1-E DC5 BY OMB
G8P-1C2T-F DC48 BY OMZ	G2RL-1-E DC48 BY OMB
G8P-1C2T-F DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C2T-F DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C2T-F DC12 BY OMZ/C	G2RL-1-E DC12 BY OMB
G8P-1C2T-F DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1C2P DC24 BY OMZ/C	G2RL-1-E DC24 BY OMB
G8P-1C2P DC24 BY OMZ	G2RL-1-E DC24 BY OMB
G8P-1C2P DC12 BY OMZ	G2RL-1-E DC12 BY OMB
G8P-1ATP DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1ATP DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1ATP DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C
G8P-1ATP DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1ATP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1AP DC9 BY OMZ	G4A-1A-PE DC9 BY OMZ

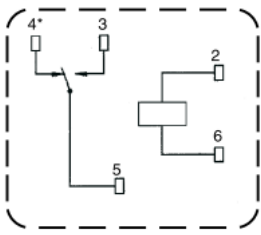
Product discontinuation	Recommended replacement
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G8P-1AP DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C
G8P-1AP DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1AP DC12 BY OMZ/C	G4A-1A-PE DC12 BY OMZ/C
G8P-1AP DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1AP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A4TP DC9 BY OMZ	G4A-1A-E DC9 BY OMZ
G8P-1A4TP DC5 BY OMZ/C	G4A-1A-E DC5 BY OMZ/C
G8P-1A4TP DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1A4TP DC24 BY OMZ/C	G4A-1A-E DC24 BY OMZ/C
G8P-1A4TP DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1A4TP DC18 BY OMZ	G4A-1A-E DC18 BY OMZ
G8P-1A4TP DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C
G8P-1A4TP DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1A4TP DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A4P-VD DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P-TV5 DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P-BG DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P-BG DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC9 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC9 BY OMZ	G4A-1A-PE DC9 BY OMZ
G8P-1A4P DC5 BY OMZ/C	G4A-1A-PE DC5 BY OMZ/C
G8P-1A4P DC5 BY OMZ	G4A-1A-PE DC5 BY OMZ
G8P-1A4P DC48 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC48 BY OMZ	No Recommended Replacement
G8P-1A4P DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C
G8P-1A4P DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A4P DC18 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC18 BY OMZ	G4A-1A-PE DC18 BY OMZ
G8P-1A4P DC15 BY OMZ/C	No Recommended Replacement
G8P-1A4P DC15 BY OMZ	No Recommended Replacement
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G8P-1A4P DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC12 BY OMI	G4A-1A-PE DC12 BY OMZ
G8P-1A4P DC110 BY OMZ	G2R-1A-E DC110 BY OMI
G8P-1A2T-F DC5 BY OMZ/C	G4A-1A-E DC5 BY OMZ/C
G8P-1A2T-F DC5 BY OMZ	G4A-1A-E DC5 BY OMZ
G8P-1A2T-F DC48 BY OMZ	No Recommended Replacement
G8P-1A2T-F DC24 BY OMZ/C	G4A-1A-E DC24 BY OMZ/C
G8P-1A2T-F DC24 BY OMZ	G4A-1A-E DC24 BY OMZ
G8P-1A2T-F DC12 BY OMZ/C	G4A-1A-E DC12 BY OMZ/C
G8P-1A2T-F DC12 BY OMZ	G4A-1A-E DC12 BY OMZ
G8P-1A2P DC5 BY OMZ	G4A-1A-PE DC5 BY OMZ
G8P-1A2P DC48 BY OMZ	No Recommended Replacement
G8P-1A2P DC24 BY OMZ/C	G4A-1A-PE DC24 BY OMZ/C
G8P-1A2P DC24 BY OMZ	G4A-1A-PE DC24 BY OMZ
G8P-1A2P DC12 BY OMZ/C	G4A-1A-PE DC12 BY OMZ/C
G8P-1A2P DC12 BY OMZ	G4A-1A-PE DC12 BY OMZ

[Body color]

<p>Product discontinuation Model G8P Series</p>	<p>Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110</p>
<p>Black</p> 	<p>Model G2RL-1-E: Black</p>  <p>Model G4A-1A-(P)E: Black</p>  <p>Model G2R-1(A)-E: Clear case</p> 

[Wire connection]

<p>Product discontinuation Model G8P Series</p>	<p>Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110</p>
<p>Model G8P series (BOTTOM VIEW) (No coil polarity)</p> <p>Open frame, PCB terminals</p>  <p>Note: Terminal #4 is omitted on G8P-1AP.</p> <p>Sealed/ Ventable, PCB terminals</p>  <p>*Note: Terminal #4 is omitted on SPST-NO version.</p> <p>Open frame, PCB with Quick Connect terminals</p>  <p>Note: Terminal #4 is omitted on G8P-1ATP.</p> <p>Sealed/ Ventable, PCB with Quick Connect terminals</p>  <p>*Note: Terminal #4 is omitted on SPST-NO version.</p>	<p>Model G2RL-1-E (BOTTOM VIEW) (No coil polarity)</p>  <p>Model G4A-1A-E (TOP VIEW) (BOTTOM VIEW) (No coil polarity)</p>  <p>Model G4A-1A-PE (BOTTOM VIEW) (No coil polarity)</p>  <p>Model G2R-1-E (BOTTOM VIEW) (No coil polarity)</p>  <p>Model G2R-1A-E (BOTTOM VIEW) (No coil polarity)</p> 

<p align="center">Product discontinuation Model G8P Series</p>	<p align="center">Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110</p>
<p>Flange mount</p>  <p>*Note: Terminal #4 is omitted on SPST-NO version.</p>	

[Mounting dimensions]

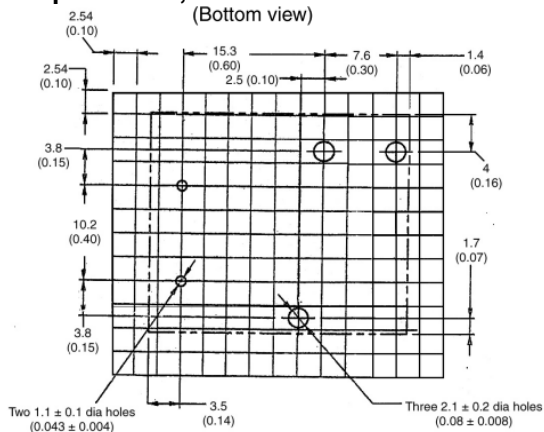
**Product discontinuation
Model G8P Series**

**Recommendable replacement
Model G2RL-1-E
Model G4A-1A-(P)E
Model G2R-1(A)-E DC110**

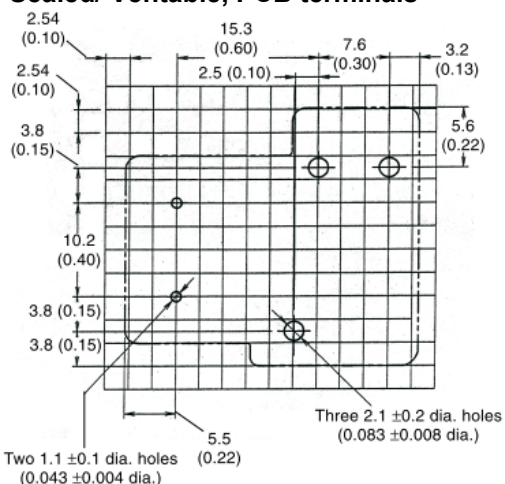
Model G8P series

(BOTTOM VIEW)

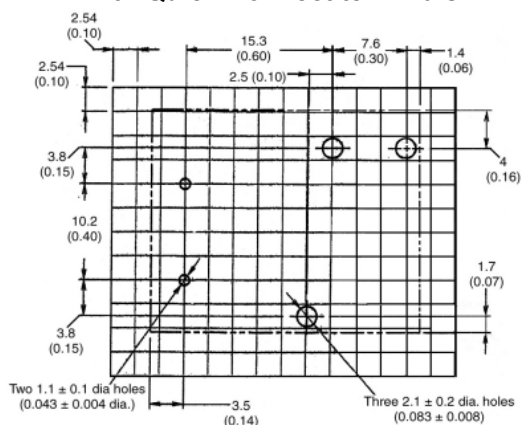
**Open frame, PCB terminals
(Bottom view)**



Sealed/ Ventable, PCB terminals

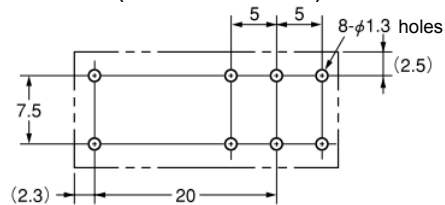


**Open frame,
PCB with Quick Connect terminals**



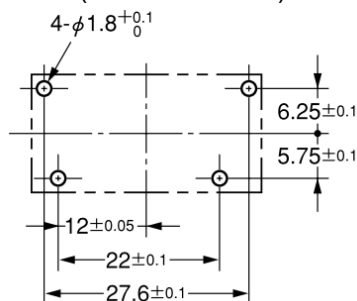
Model G2RL-1-E

(BOTTOM VIEW)



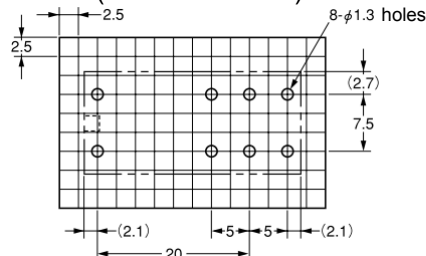
Model G4A-1A-(P)E

(BOTTOM VIEW)



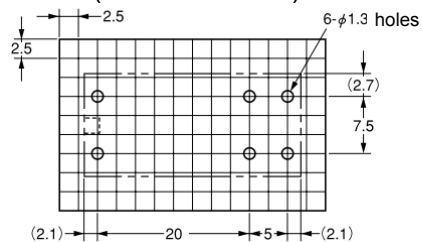
Model G2R-1-E

(BOTTOM VIEW)



Model G2R-1A-E

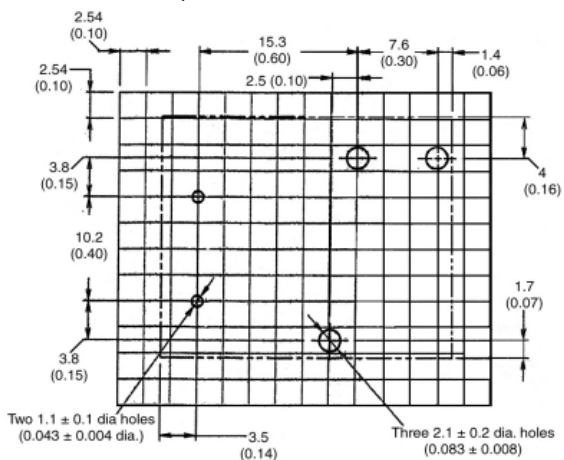
(BOTTOM VIEW)



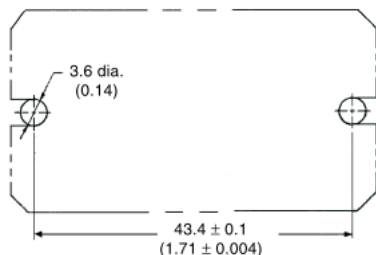
**Product discontinuation
Model G8P Series**

**Recommendable replacement
Model G2RL-1-E
Model G4A-1A-(P)E
Model G2R-1(A)-E DC110**

**Sealed/ Ventable,
PCB with Quick Connect terminals**



Flange mount



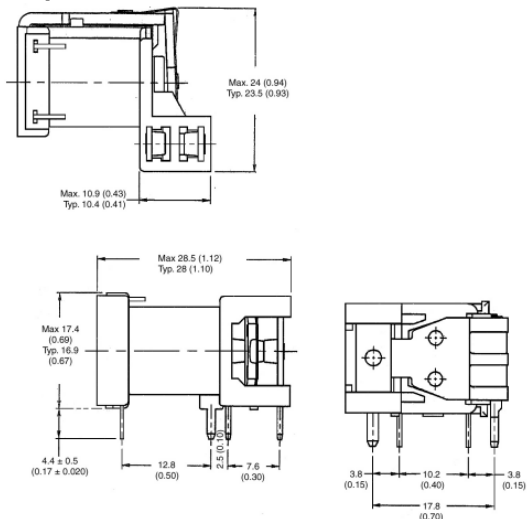
[Dimensions]

**Product discontinuation
Model G8P Series**

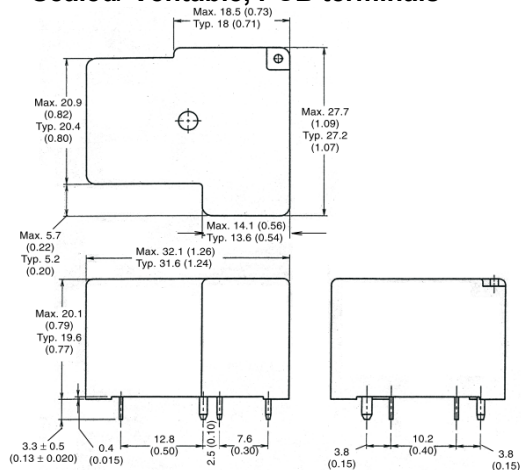
**Recommendable replacement
Model G2RL-1-E
Model G4A-1A-(P)E
Model G2R-1(A)-E DC110**

Model G8P series

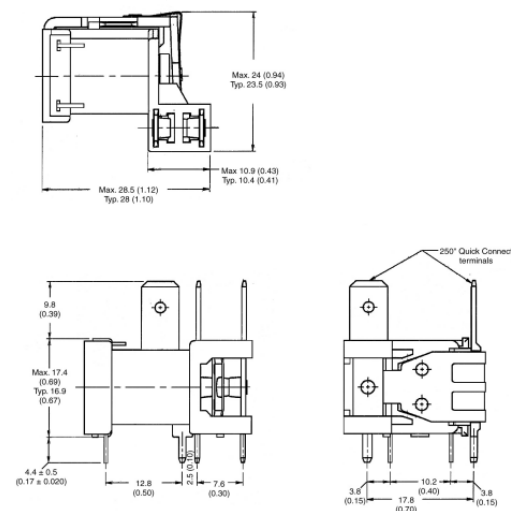
Open frame, PCB terminals



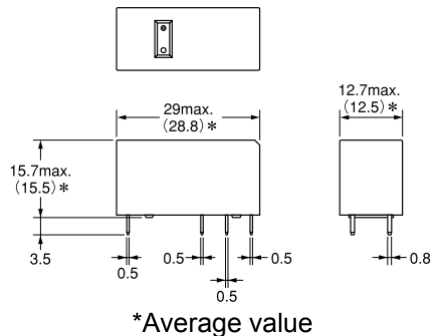
Sealed/ Ventable, PCB terminals



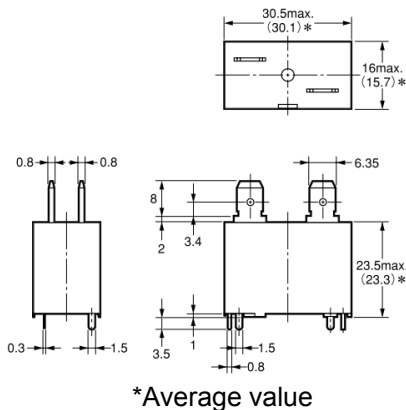
**Open frame,
PCB with Quick Connect terminals**



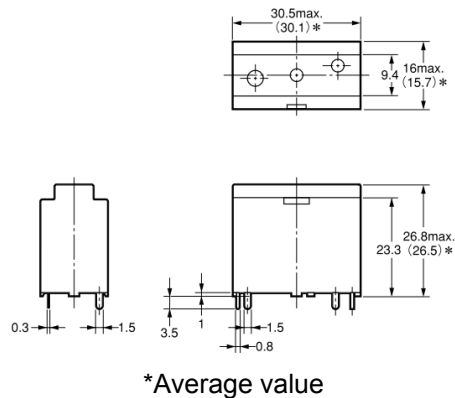
Model G2RL-1-E



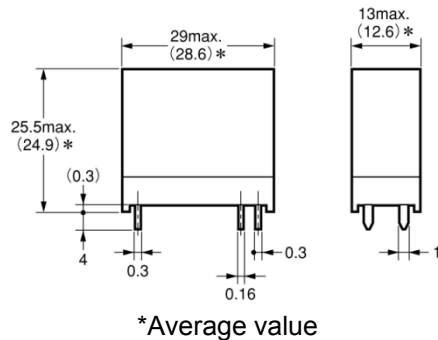
Model G4A-1A-E



Model G4A-1A-PE



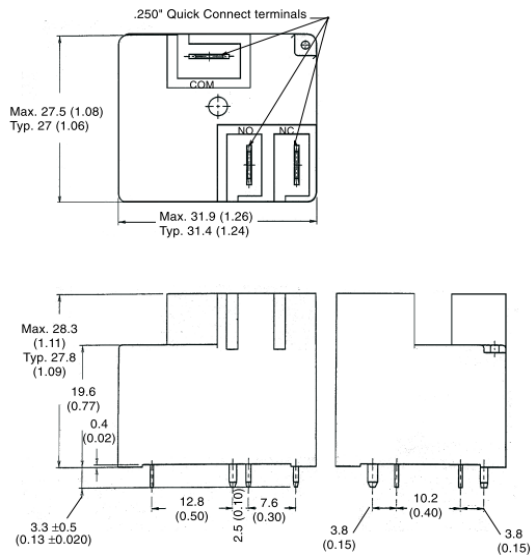
Model G2R-1A-E



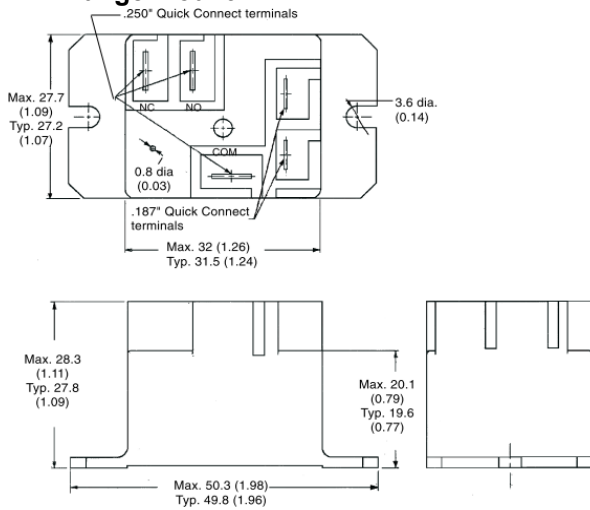
**Product discontinuation
Model G8P Series**

**Recommendable replacement
Model G2RL-1-E
Model G4A-1A-(P)E
Model G2R-1(A)-E DC110**

**Sealed/ Ventable,
PCB with Quick Connect terminals**



Flange mount



[Characteristics / Operation ratings]

■ Coil Ratings

Model	Rated Voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage	Must release voltage	Rated power consumption (W)	Max voltage
G8P Series	5	185	27	75% max.	10% min.	Approx. 0.9	120% (at 23°C)
	9	93	97				
	12	77	155				
	24	36	660				
	48	19	2480				
	110	9	12400				
G2RL-1-E	5	80	62.5	70% max.	10% min.	Approx. 0.4	180% (at 23°C)
	9	44.4	202.5				
	12	33.3	360				
	24	16.7	1440				
	48	8.96	5358			Approx. 0.43	
G4A-1A-(P)E	5	180	27.8	70% max.	10% min.	Approx. 0.9	160% (at 23°C)
	9	100	90				
	12	75	160				
	24	37.5	640				
G2R-1(A)-E	110	4.8	22900	70% max.	15% min.	Approx. 0.53	170% (at 23°C)

■ Contact Ratings

Items	Product discontinuation Model G8P Series		Recommendable replacement Model G2RL-1-E	Recommendable replacement Model G4A-1A-(P)E	Recommendable replacement Model G2R-1(A)-E
Contact Form	1A	1C	1C	1A	1A / 1C
Rated load (resistive)	30 A 250 VAC (-BG: 20 A 250 VAC) 20 A 28 VDC (-BG: ---)	20/10 A 250 VAC (NO/NC) 20/10 A 28 VDC (NO/NC)	16 A 250 VAC	250 VAC 20 A	250 VAC 6 A 30 VDC 16 A
Rated carry current	30 A (-BG: 20 A)	20/10 A (NO/NC)	16 A	20 A	16 A
Max. switching voltage	250 VAC 28 VDC		440 VAC 300 VDC	250 VAC	380 VAC 125 VDC
Max. switching current	AC: 30 A (-BG: AC 20 A) DC: 20 A	20/10 A (AC, DC)	16 A	20 A	16 A

■ Characteristic

Items	Product discontinuation Model G8P Series	Recommendable replacement Model G2RL-1-E	Recommendable replacement Model G4A-1A-(P)E	Recommendable Replacement Model G2R-1(A)-E
Contact resistance	100 mΩ max.	100 mΩ max.	100 mΩ max.	30 mΩ max.
Operate time	15 ms max. (-BG: 20 ms max.)	15 ms max.	20 ms max.	15 ms max.
Release time	10 ms max.	5 ms max.	10 ms max.	5 ms max.
Insulation resistance	100 MΩ min.	1,000 MΩ min.	1,000 MΩ min.	1,000 MΩ min.
Dielectric strength	[Coil and contacts] 2,500 VAC 1 min (-BG: 4,000 VAC) [Contacts of same polarity] 1,500 VAC 1 min	[Coil and contacts] 5,000 VAC 1 min [Contacts of same polarity] 1,000 VAC 1 min	[Coil and contacts] 4,500 VAC 1 min [Contacts of same polarity] 1,000 VAC 1 min	[Coil and contacts] 5,000 VAC 1 min [Contacts of same polarity] 1,000 VAC 1 min
Vibration resistance	[Destruction] 10 to 55 Hz (1.65 mm double amplitude) (-BG: 10 to 55 Hz 1.5 mm double amplitude) [Malfunction] 10 to 55 Hz, (1.65 mm double amplitude)	[Destruction] 10 to 55 to 10 Hz, (1.5 mm double amplitude) [Malfunction] 10 to 55 to 10 Hz, (1.5 mm double amplitude)	[Destruction] 10 to 55 to 10 Hz, (1.5 mm double amplitude) [Malfunction] 10 to 55 to 10 Hz, (1.5 mm double amplitude)	[Destruction] 10 to 55 to 10 Hz, (1.5 mm double amplitude) [Malfunction] 10 to 55 to 10 Hz, (1.5 mm double amplitude)
Shock resistance	[Destruction] 1,000 m/s ² [Malfunction] 100 m/s ²	[Destruction] 1,000 m/s ² [Malfunction] 100 m/s ²	[Destruction] 1,000 m/s ² [Malfunction] 200 m/s ²	[Destruction] 1,000 m/s ² [Malfunction] 200 m/s ²
Endurance	[Mechanical] 10,000,000 operations min. (18,000 ops/hr) (-BG: 5,000,000 operations min.) [Electrical] 100,000 operations min. (approx.) (360 ops/hr) (-BG: 40,000 operations min.)	[Mechanical] 20,000,000 operations min. (18,000 ops/hr) [Electrical] 16 A 250 VAC 30,000 operations min.	[Mechanical] 2,000,000 operations min. (18,000 ops/hr) [Electrical] Rated load: 100,000 operations min. Motor load: 200,000 operations min. Inverter load: 30,000 operations min.	[Mechanical] 20,000,000 operations min. (18,000 ops/hr) [Electrical] Rated load: 100,000 operations min. (18,000 ops/hr)
Ambient temperature	-55°C to +105°C (with no icing)	-40°C to +85°C (with no icing)	-20°C to +60°C (with no icing)	-40°C to +70°C (with no icing)
Ambient humidity	5 to 85%RH	5 to 85%RH	5 to 85%RH	5 to 85%RH
Weight	24 to 31 g	12 g	23 g	17 g

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

[Operation methods]

<p align="center">Product discontinuation Model G8P Series</p>	<p align="center">Recommendable replacement Model G2RL-1-E Model G4A-1A-(P)E Model G2R-1(A)-E DC110</p>
<p align="center">No difference</p>	

Specifications and prices 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.