9EC-1-B-AQ

DC Power Relay (200A type)

Capable of Interrupting Highvoltage, High-current Loads

- A compact relay (L98 x W44x H86.7mm) capable of switching DC400V, 200A. (Capable of interrupting max. DC400V, 1,000A)
- The switching section and driving section are gas-injected and hermetically sealed, allowing these compact relays to interrupt high-current. The sealed construction also achieves no arc space, space saving, and helps to ensure safe applications. In addition, the contacts have a high contact reliability that is unaffected by ambient atmosphere.
- Downsizing of parts and optimum design allow no restrictions on the mounting direction.



特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Type standard

G9EC-_-_

	Classification	Symbol	Symbol Meaning of the symbol
1	Number of contact poles	CO1	1 pole
2	Contact structure	Blank	1a contact
3	Coil terminal form	В	M3.5 screw terminal
		Blank	Lead wires
4	Automotive use	AQ	Available for automotive use

Classification

Classification	Termin	nal form	Contact atministration	Dated seil voltage	Tuno man C	
Classification	Coil terminals	Contact terminals	Contact structure	Rated coil voltage	Type name	
Switching / current	Screw terminals	Screw terminals	1a	DC12V DC24V	G9EC-1-B-AQ	
conduction type	Lead wires				G9EC-1-AQ	

Note:1. Come with two M8 nuts for main terminals (contacts).

- Come with two M3.5 screws for screw-type coil terminal products.
- If you are interested in a connector joint for coil terminal, please contact our sales representatives.

■ Ratings

Operation coil

Rated voltage (V)	Rated current (mA)	Coil resistance (Ω)	Operating voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption (W)
DC 12	583	20.6	TW C	200	130% of rated	MM
DC 24	292 82.3	82.3	75% or less of rated voltage	8% or more of rated voltage	voltage (at 23°C within 10min.)	Approx. 7
2. The figures	for the operating cha	aracteristics are at a co	at coil temperature of +2 oil temperature of 23°C. that can be applied to	WW.L	nce of ±10%.	M MM

- Note:1. Values of the rated current and the coil resistance are at coil temperature of +23°C, and have a tolerance of ±10%.
 - The figures for the operating characteristics are at a coil temperature of 23°C.
 - 3. Value of the maximum voltage is the maximum voltage that can be applied to the relay coil.

Switching area

ltom	Resistance load	-
Item	G9EC-1(-B)-AQ	Z
Rated load	DC400V 200A	
Rated current	200A	/
Maximum switching voltage	400V	C
Maximum switching current	200A	

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Performance

Item Contact resistance *1		G9EC-1(-B)-AQ 30 mΩ or less (Typ. $0.2m\Omega$)	
	100		
Contact voltage drop		0.1V or less (at 200A)	
Operating time	WWW. Town.CO	50 ms or less	
Release time	- WAN 100 - CO	30 ms or less	
Insulation resistance*2	Between coil and contacts	1,000 MΩ or more	
resistance ²	Between homopolar contacts	1,000 M Ω or more	
Withstand voltage	Between coil and contacts	AC2,500V for 1min.	
	Between homopolar contacts	AC2,500V for 1min.	
Vibration tolerance	Durability	5 to 200 to 5Hz Single amplitude 0.75mm (Acceleration: 2.94 to 88.9m/s²)	
VIDIATION TOTERATION	Malfunction	5 to 200 to 5Hz Single amplitude 0.75mm (Acceleration: 2.94 to 88.9m/s²)	
Chaelt vesistance	Durability	490 m/s ²	
Shock resistance	Malfunction	200 m/s ²	
Mechanical endura	nce *3	200,000 times or more	
Electrical endurance	e (Resistance load) *4	DC400V 200A 3,000 times or more	
Short time carry cu	rrent	300A (for 15 min)	
Maximum interruption current		DC400V 1,000A (10 times)	
Overload interruption		DC400V 700A (40 times or more)	
Reverse polarity interruption		DC200V –200A (1,000 times or more)	
Minimum load curre	ent	1A 100 - 0 1 1 1A	
Ambient temperatur	e N	-40 to +85°C (with no icing or condensation)	
Ambient humidity	ON	5% to 85%RH	
Weight (including accessories)		Approx. 650g	
*1. Measurement*2. Measurement*3. Test condition	ve are in early time under an an condition: By voltage drop meth condition: By insulation resistan / Switching frequency: 3,600 tin / Switching frequency: 60 times	ce at DC500V. nes/hour.	

- *1. Measurement condition: By voltage drop method at DC5V 1A.
 *2. Measurement condition: By insulation resistance at DC500V.
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- Test condition / Switching frequency: 3,600 times/hour.
- *4. Test condition / Switching frequency: 60 times/hour.

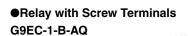
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50 to

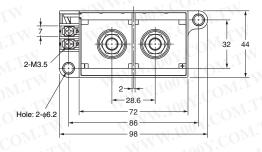
G9EC-1-B-AQ

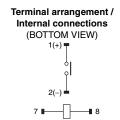
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■ Dimensions (Unit: mm)



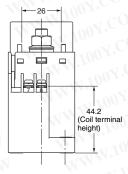


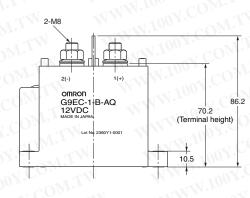




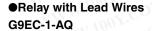
Note: Be sure to connect terminals with the correct polarity. Coils do not have polarity.

Size (mm)	Tolerance (mm)
to 10	±0.3
10 to 50	±0.5
50 to	C ±1

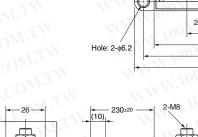


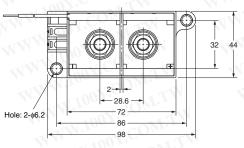


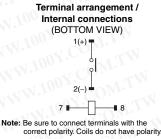


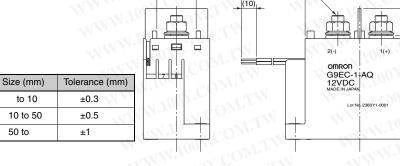


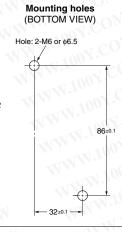












70.2 (Terminal height)