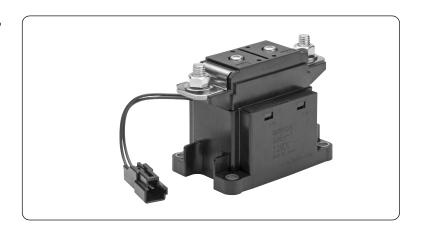
G9EH-1 DC Power Relay (300A type)

Capable of Interrupting Highvoltage, High-current Loads

- A compact relay (L111 x W60x H76.7mm) capable of switching DC400V, 300A. (Capable of interrupting max. DC300V, 2500A)
- 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.



■ Type standard

G9EH-□-□-□

	Classification	Symbol	Symbol Meaning of the symbol
1	Number of contact poles	1	1 pole
2	Contact structure	Blank	1a contact
3	Coil terminal form	Blank	Connector terminal
4	Automotive use	Blank	Available for automotive use

Classification

Classification	Terminal form		Contact structure	Rated coil voltage	Type name
Olassilication	Coil terminals	Contact terminals	Contact structure	riated con voltage	туре пате
Switching / current conduction type	Connector terminal	Screw terminals	1a	DC12V DC24V	G9EH-1

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

■ 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	75% or less of rated voltage	8% or more of rated voltage	130% of rated	
DC 24	292	82.3			voltage (at 23°C within 10min.)	Approx. 7

- Note:1. Values of the rated current and the coil resistance are at coil temperature of +23°C, and have a tolerance of ±10%.
 - 2. 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

Item	Resistance load	
item	G9EH-1	
Rated load	DC400V 300A	
Rated current	300A	
Maximum switching voltage	400V	
Maximum switching current	300A	

■ Performance

Item		G9EH-1		
Contact resistance *	1	30 mΩ or less (Typ. 0.2 mΩ)		
Contact voltage dro	р	0.1V or less (at 300A)		
Operating time		50 ms or less		
Release tim		30 ms or less		
Insulation	Between coil and contacts	1,000 MΩ or more		
resistance*2	Between homopolar contacts	1,000 MΩ or more		
Maria at a sala sala as a	Between coil and contacts	AC2,500V for 1min.		
Withstand voltage	Between homopolar contacts	AC2,500V for 1min.		
Vilenation to Louis	Durability	10 to 55 to 10 Hz Single amplitude 0.75mm (Acceleration: 2.94 to 88.9m/s²)		
Vibration tolerance	Malfunction	10 to 55 to 10 Hz Single amplitude 0.75mm (Acceleration: 2.94 to 88.9m/s²)		
Shock resistance	Durability	490 m/s²		
Snock resistance	Malfunction	200 m/s ²		
Mechanical endurar	nce *3	200,000 times or more		
Flootwice Landywane	(Decistores lead) *4	DC400V 200A 3,000 times or more		
Electrical endurance	e (Resistance load) *4	DC400V 300A 1,000 times or more		
Short time carry cur	rent	450A (for 10 min)		
Maximum interruption	on current	DC400V 2,500A (1 time)		
Overload interruptio	n	DC400V 700A (40 times or more)		
Reverse polarity into	erruption	DC200V -200A (1,000 times or more)		
Minimum load curre	nt	1A		
Ambient temperatur	e	-40 to +85°C (with no icing or condensation)		
Ambient humidity		5% to 85%RH		
Weight (including ad	ccessories)	Approx. 850g		

Note: All values above are in early time under an ambient temperature of +23°C unless stated.

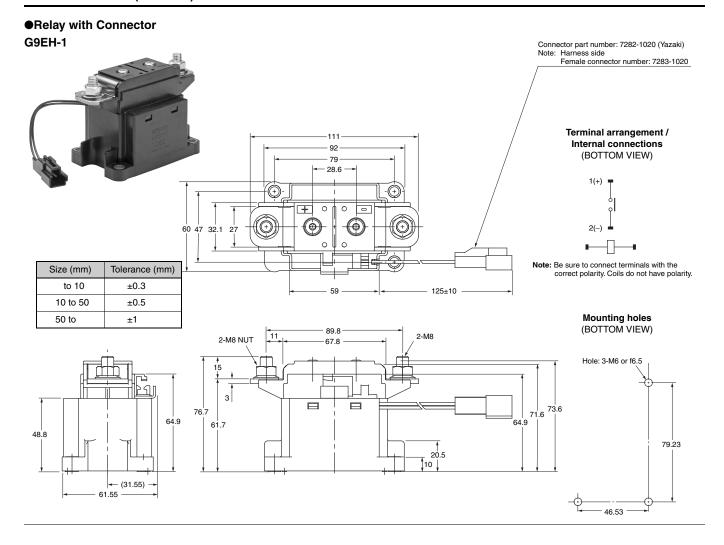
*1. Measurement condition: By voltage drop method at DC5V 1A.

*2. Measurement condition: By insulation resistance at DC500V.

*3. Test condition / Switching frequency: 3,600 times/hour.

*4. Test condition / Switching frequency: 60 times/hour.

■ Dimensions (Unit: mm)



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Omron:

G9EH-1 DC24 G9EH-1 DC12