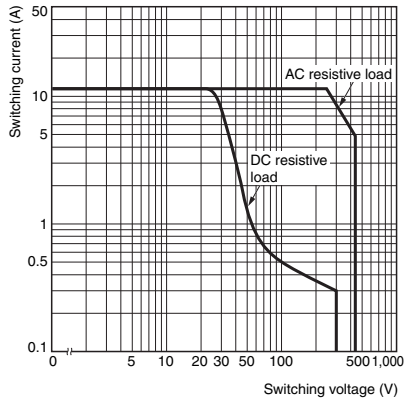
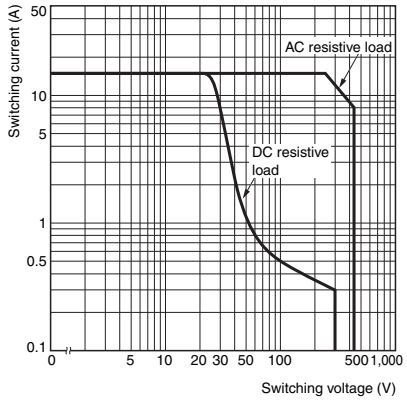
■Engineering Data

●Maximum Switching Capacity

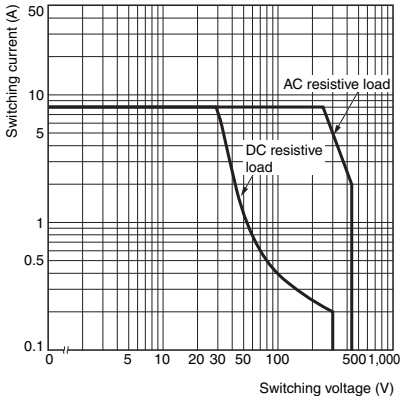
G2RL-1A, G2RL-1



G2RL-1A-E, G2RL-1-E

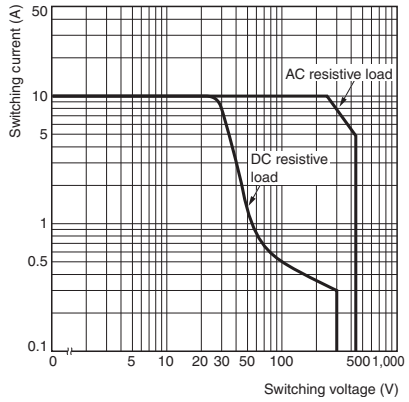


G2RL-2A, G2RL-2

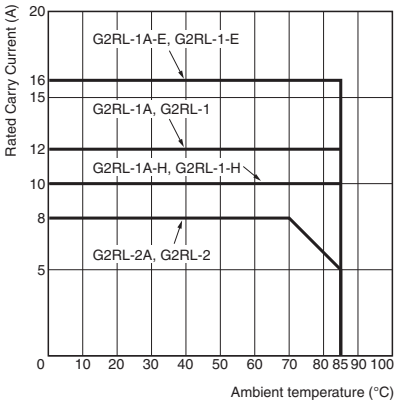


●High-sensitivity type

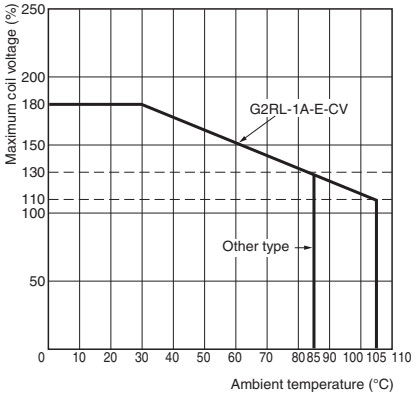
G2RL-1A-H, G2RL-1-H



●Ambient Temperature vs. Rated Carry Current

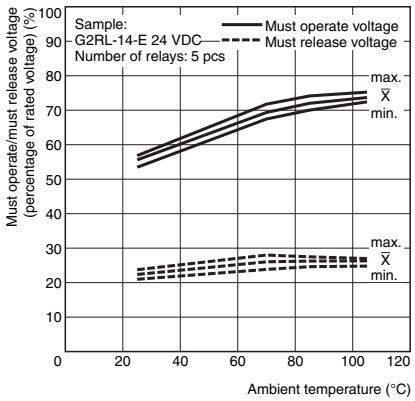


●Ambient Temperature vs. Maximum Coil Voltage



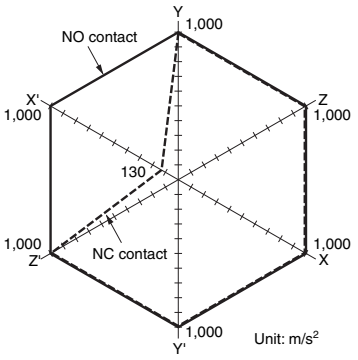
Note. The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

●Ambient Temperature vs. Must Operate and Must Release Voltages

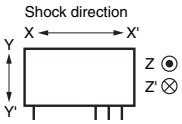


●Shock Malfunction

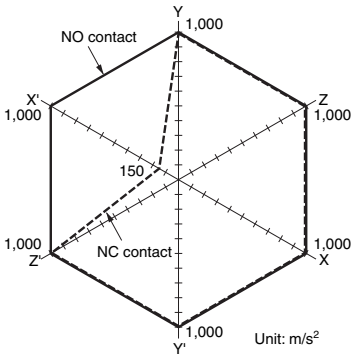
G2RL-1 (A)-E



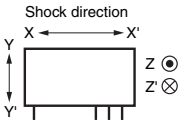
Sample: G2RL-14 12 VDC
Number of Relays: 5 pcs
Test conditions: Shock is applied in ±X, ±Y, and ±Z directions three times each with without energizing the Relays to check the number of malfunctions.
Requirement: None malfuction
100 m/s²



G2RL-2 (A)



Sample: G2RL-24 12 VDC
Number of Relays: 5 pcs
Test conditions: Shock is applied in ±X, ±Y, and ±Z directions three times each with without energizing the Relays to check the number of malfunctions.
Requirement: None malfuction
100 m/s²



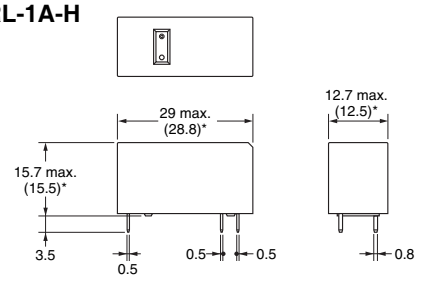
■Electrical Endurance Data (Reference Value)

G2RL-1-E	8 A 250 VAC (cosϕ=0.4) 8 A 30 VDC (L/R=7 ms)	200,000 operation min. (N.O.) 10,000 operation min. (N.O.)
G2RL-1	5 A 250 VAC (cosϕ=0.4) 5 A 30 VDC (L/R=7 ms)	150,000 operation min. (N.O.) 10,000 operation min. (N.O.)
G2RL-2	8 A 250 VAC (cosϕ=1) 8 A 30 VDC	30,000 operation min. 10,000 operation min.
G2RL-1A-E	Pilot duty (A300), 250 VAC Pilot duty (A300), 125 VAC	250,000 operation min. 150,000 operation min.

Note. The results shown reflect values at ambient temperature 23 C. Electrical endurance will vary depending on the test conditions.
Contact your OMRON representative if you require more detailed information for the electrical endurance under your test condition.

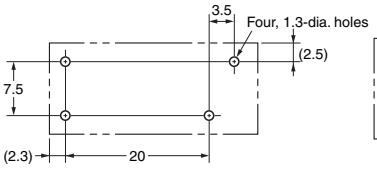
■Dimensions (Unit: mm)

G2RL-1A, G2RL-1A4, G2RL-1A-H



* Average value

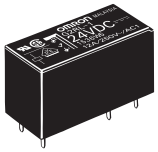
PCB Mounting Holes
(Bottom View)

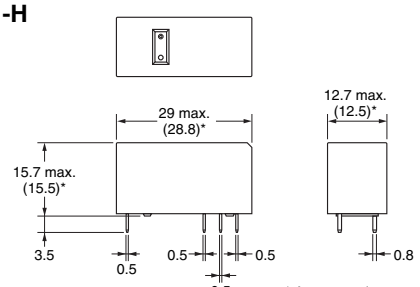


Terminal Arrangement/ Internal Connections
(Bottom View)

(No coil polarity)

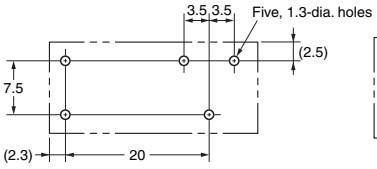
G2RL-1, G2RL-14, G2RL-1-H



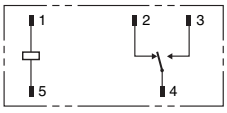


* Average value

PCB Mounting Holes
(Bottom View)

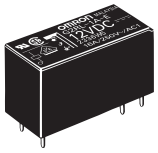


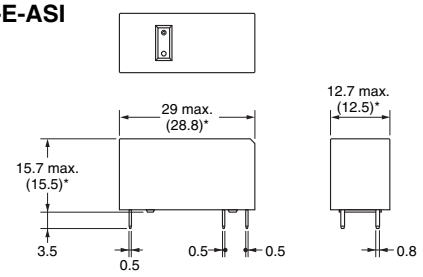
Terminal Arrangement/ Internal Connections
(Bottom View)



(No coil polarity)

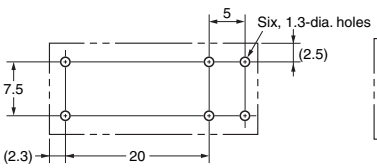
G2RL-1A-E (-HA), G2RL-1A4-E, G2RL-1A-E-CV, G2RL-1A-E-ASI



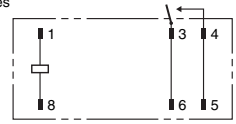


* Average value

PCB Mounting Holes
(Bottom View)



Terminal Arrangement/ Internal Connections
(Bottom View)



(No coil polarity)