

■ APPROVED STANDARDS

UL508 (File No. E41643)/CSA C22.2 (No.14) (File No. LR31928)

Part number	Contact form	Coil ratings	Contact ratings
G2RL-1A	SPST-NO	3 to 48 VDC	12 A at 250 VAC (General use), 100k ops. 12 A at 24 VDC (Resistive), 50k ops. 1/3 hp, 120 VAC, 30k ops., 60°C
G2RL-1	SPDT		
G2RL-1A-E	SPST-NO (High capacity)		16 A at 250 VAC (General use), 100k ops. 16 A at 24 VDC (Resistive), 50k ops. 20 A at 240 VAC (General use), 85°C 15 A at 240 VAC (General use), 105°C 1/2 hp, 120 VAC, 100k ops., 70°C (NO)
G2RL-1-E	SPDT (High capacity)		
G2RL-2A	DPST-NO		
G2RL-2	DPDT		8 A at 277 VAC (General use), 100k ops. 8 A at 30 VDC (Resistive), 100k ops.

VDE (VDE0435)

Part number	Contact form	Coil ratings	Contact ratings
G2RL	1 pole	5, 12, 18, 22, 24, 48 VDC	12 A at 250 VAC (cosφ=1) 12 A at 24 VDC (L/R=0 ms) AC15: 3 A at 240 VAC DC13: 2.5 A at 24 VDC, 50 ms
	1 pole (High capacity)		16 A at 250 VAC (cosφ=1) 16 A at 24 VDC (L/R=0 ms) AC15: 3 A at 240 VAC (NO) 1.5 A at 240 VAC (NC) DC13: 2.5 A at 24 VDC (NO), 50 ms
	2 poles		8 A at 250 VAC (cosφ=1) 8 A at 24 VDC (L/R=0 ms) AC15: 1.5 A at 240 VAC DC13: 2 A at 30 VDC, 50 ms

Note: To achieve approved life cycles on sealed models, the relay should be vented by removing “knock off vent nib” on top of relay case after the soldering/washing process.

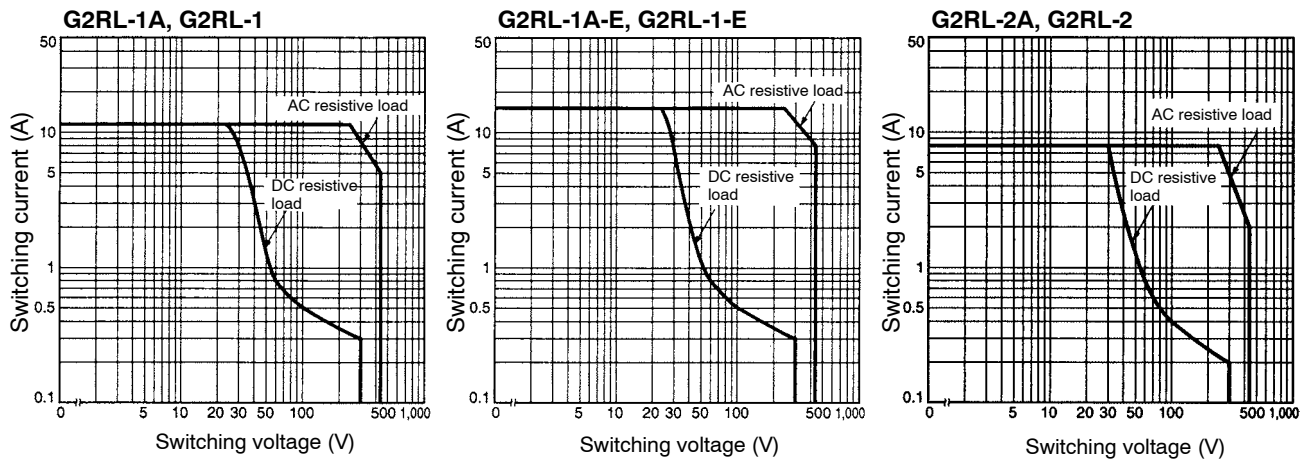
Electrical Life Data

Part number	Contact rating	Minimum operations
G2RL-1-E	16 A at 250 VAC (cosφ=1)	100,000 operations min. (1 sec. ON / 9 sec. OFF)
	16 A at 24 VDC	30,000 operations min.
	8 A at 250 VAC (cosφ=0.4)	200,000 operations min. (N.O. side operation)
	8 A at 30 VDC (L/R=7 ms)	10,000 operations min.
G2RL-1	12 A at 250 VAC (cosφ=1)	100,000 operations min. (1 sec. ON / 9 sec. OFF)
	12 A at 24 VDC	30,000 operations min.
	5 A at 250 VAC (cosφ=0.4)	150,000 operations min.
	5 A at 30 VDC (L/R=7 ms)	20,000 operations min.
G2RL-2	8 A at 250 VAC (cosφ=1)	100,000 operations min. (1 sec. ON / 9 sec. OFF)
	8 A at 30 VDC	30,000 operations min.
G2RL-1A-E	Pilot duty (A300), 250 VAC	250,000 operations min. (1 sec. ON / 9 sec OFF)
	Pilot duty (A300), 125 VAC	150,000 operations min. (1 sec. ON / 9 sec OFF)

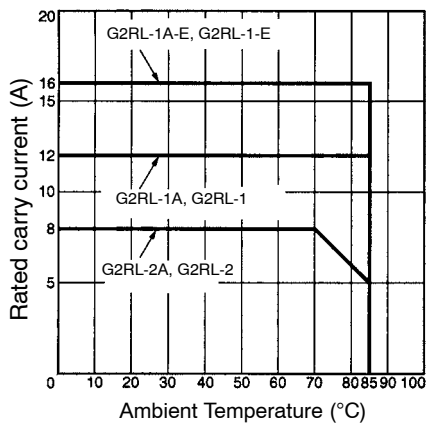
- Note:**
- The results shown reflect minimum cycles using a very severe duty cycle of 1 sec ON/1 sec OFF (unless otherwise specified above).
 - In order to obtain the full rated life cycles on the fully sealed models, the relay should be properly vented by removing the “knock off vent nib” on top of the relay case after the soldering / washing process of the P.C.B.
Contact Omron for applications where venting of the sealed relay is not possible.

Engineering Data

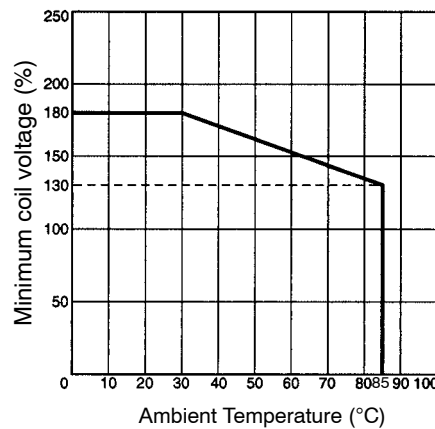
■ MAXIMUM SWITCHING CAPACITY



■ 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.

Dimensions

Unit: mm (inch)

G2RL-1A, G2RL-1A4

