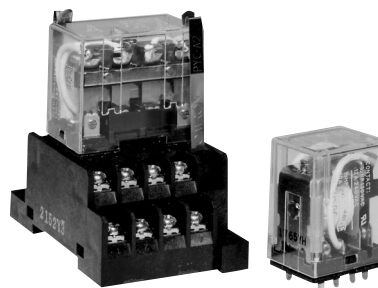


General Purpose Relay LY

- Arc barrier equipped.
- High dielectric strength (2,000 VAC).
- Long dependable service life assured by Ag-Alloy contacts.
- Choose models with single or bifurcated contacts, LED indicator, diode surge suppression, push-to-test button, or RC circuit.
- UL, CSA, and TUV approvals on all standard LY Relays.
- CE marks included on non-PCB mount versions.



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., LY1-DC6).

Type	Terminal	Contact form	Model			
			Single contact		Bifurcated contact	
			Standard bracket mounting	Upper mounting bracket	Standard bracket mounting	Upper mounting bracket
Standard	Plug-in/solder	SPDT	LY1	LY1F	—	—
		DPDT	LY2	LY2F	LY2Z	LY2ZF
		3PDT	LY3	LY3F	—	—
		4PDT	LY4	LY4F	—	—
	PCB	SPDT	LY1-0	—	—	—
		DPDT	LY2-0	—	LY2Z-0	—
		3PDT	LY3-0	—	—	—
		4PDT	LY4-0	—	—	—
LED indicator	Plug-in/solder	SPDT	LY1N	—	—	—
		DPDT	LY2N	—	LY2ZN	—
		3PDT	LY3N	—	—	—
		4PDT	LY4N	—	—	—
Diode surge suppression	Plug-in/solder	SPDT	LY1-D	—	—	—
		DPDT	LY2-D	—	LY2Z-D	—
		3PDT	LY3-D	—	—	—
		4PDT	LY4-D	—	—	—
LED indicator and diode surge suppression	Plug-in/solder	SPDT	LY1N-D2	—	—	—
		DPDT	LY2N-D2	—	LY2ZN-D2	—
		4PDT	LY4N-D2	—	—	—
RC circuit	Plug-in/solder	SPDT	LY1-CR	—	—	—
		DPDT	LY2-CR	—	LY2Z-CR	—
LED indicator and RC circuit	Plug-in/solder	SPDT	LY1N-CR	—	—	—
		DPDT	LY2N-CR	—	LY2ZN-CR	—

- Note:**
1. Types with specifications other than those listed are available. Contact your Omron Sales representative.
 2. To order connecting sockets and mounting tracks, see "Accessories" section.
 3. Relays with RC circuit are only available in AC coil voltages of 100 VAC or greater.

Specifications

■ Contact Data

Load	Single contact				Bifurcated contact	
	SPDT		DPDT, 3PDT, 4PDT		DPDT	
	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)
Rated load	15 A at 110 VAC 15 A at 24 VDC	10 A at 110 VAC 7 A at 24 VDC	10 A at 110 VAC 10 A at 24 VDC	7.5 A at 110 VAC 5 A at 24 VDC	5 A at 110 VAC 5 A at 24 VDC	4 A at 110 VAC 4 A at 24 VDC
Contact material	Ag-Alloy					
Carry current	15 A		10 A		7 A	
Max. operating voltage	250 VAC 125 VDC					
Max. operating current	15 A		10 A		7 A	
Max. switching capacity	1,700 VA 360 W	1,100 VA 170 W	1,100 VA 240 W	825 VA 120 W	550 VA 120 W	440 VA 100 W
Min. permissible load	100 mA, 5 VDC				10 mA, 5 VDC	

■ Coil Data

1- and 2-pole Types – AC

Rated voltage (V)	Rated current (mA)		Coil resistance (Ω)	Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (VA, W)
	50 Hz	60 Hz		Armature OFF	Armature ON				
6	214.10	183	12.20	0.04	0.08	80% max.	30% min.	110%	Approx. 1.00 to 1.20 (60 Hz)
12	106.50	91	46	0.17	0.33				
24	53.80	46	180	0.69	1.30				
50	25.70	22	788	3.22	5.66				
100/110	11.70/12.90	10/11	3,750	14.54	24.60				
110/120	9.90/10.80	8.40/9.20	4,430	19.20	32.10				
200/220	6.20/6.80	5.30/5.80	12,950	54.75	94.07				
220/240	4.80/5.30	4.20/4.60	18,790	83.50	136.40			Approx. 0.90 to 1.10 (60 Hz)	

1- and 2-pole Types – DC

Rated voltage (V)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (VA, W)
			Armature OFF	Armature ON				
6	150	40	0.16	0.33	80% max.	10% min.	110%	Approx. 0.90
12	75	160	0.73	1.37				
24	36.90	650	3.20	5.72				
48	18.50	2,600	10.60	21				
100/110	9.10/10	11,000	45.60	86.20				

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with tolerances of +15%, -20% for AC rated current, and ±15% for DC rated coil resistance.
 2. The AC coil resistance and inductance are reference values at 60 Hz.
 3. The performance characteristics are measured at a coil temperature of 23°C (73°F).
 4. Class B coil insulation is available.