

Power-switching Compact General-purpose Relays



- The standard models include models that are compliant with the UL, CSA, and SEV safety standards and with the Electrical Appliances and Material Safety Act.
- Equipped with an arc barrier for arc interruption.
- Withstand voltages up to 2,000 V.
- New built-in diode and built-in CR circuit models have joined the series.
- The lineup also includes models that are compliant with the LR and VDE safety standards.
- Single-pole and double-pole models have AC4 ratings and DC2 ratings (operating coil ratings: 100/110 VAC, 110/120 VAC, 200/220 VAC, 220/240 VAC, and 100/110 VDC).
- Three-pole and four-pole models have AC4 ratings and DC2 ratings (operating coil ratings: 100/110 VAC, 200/220 VAC and 100/110 VDC).



Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.



Refer to the *Common Relay Precautions*.

Model Number Structure

Structure		Relays with Plug-in Terminals		Relays with PCB Terminals	Case-surface mounting	
Classification	Number of poles	With operation indicators				
Standard models	1	*LY1	**LY1N	*LY1-0	*LY1F	
	2	*LY2	**LY2N	*LY2-0	*LY2F	
	Compliance with Electrical Appliances and Material Safety Act	Bifur-cated	*LY2Z	**LY2ZN	*LY2Z-0	*LY2ZF
		3	*LY3	**LY3N	*LY3-0	*LY3F
	4	*LY4	**LY4N	*LY4-0	*LY4F	
Models with diode for coil surge absorption (DC coil specification only)	1	**LY1-D	**LY1N-D2	---	---	
	2	Bifur-cated	**LY2-D	**LY2N-D2	---	---
			**LY2Z-D	**LY2ZN-D2	---	---
	3	**LY3-D	**LY3N-D2	---	---	
	4	**LY4-D	**LY4N-D2	---	---	
Models with CR circuits for coil surge absorption (AC coil specification only)	1	—	—			
	2	Bifur-cated	**LY2-CR			**LY2N-CR
			**LY2Z-CR			**LY2ZN-CR

- Note:**
1. Cells with a diagonal line cannot be manufactured. Ask your OMRON representative for details on manufacturing products for cells containing "—" in the above table.
 2. If #187 tab terminals are required, use the LY1F-T2 or LY2F-T2 (single-pole or double-pole models only).
 3. Refer to page 17 for information on plug-in terminal and socket combinations.
 4. Items with an asterisk (*) in the table are certified for UL, CSA, and SEV. This is indicated with a certification mark on the products.
 5. Items with two asterisks (**) in the table are certified for UL and CSA. This is indicated with a certification mark on the products.
 6. All models in the table are certified for IEC (TÜV).
 7. The models with plug-in terminals (single-pole, double-pole, and 4-pole) were combined with the PTF-E for the EC Declaration of Conformity. These products display the CE Marking.

Ordering Information

When your order, specify the rated voltage.

Relays

Models with Plug-in Terminals

Number of poles		1 pole		2 poles		3 poles		4 poles	
Classification		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts	Standard models	LY1	12, 24, 100/110, 110/120, or 200/220 VAC	LY2	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	LY3	12, 24, 100/110, or 200/220 VAC	LY4	12, 24, 100/110, or 200/220 VAC
			12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC
	Models with built-in operation indicators	LY1N	12, 24, 100/110, 110/120, or 200/220 VAC	LY2N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	LY3N	12, 24, 100/110, or 200/220 VAC	LY4N	12, 24, 100/110, or 200/220 VAC
			12, 24, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC
	Models with built-in diodes	LY1-D	12, 24, 48, or 100/110 VDC	LY2-D	12, 24, 48, or 100/110 VDC	LY3-D	12, 24, 48, or 100/110 VDC	LY4-D	12, 24, 48, or 100/110 VDC
	Models with built-in diodes and operation indicators	LY1N-D2	12, 24, or 48 VDC	LY2N-D2	12, 24, 48, or 100/110 VDC	LY3N-D2	12, 24, or 100/110 VDC	LY4N-D2	12, 24, 48, or 100/110 VDC
Bifurcated contacts	Standard models	---	---	LY2Z	100/110, 110/120, 200/220, or 220/240 VAC	---	---	---	---
		---	---		12, 24, 48, or 100/110 VDC	---	---	---	---
	Models with built-in operation indicators	---	---	LY2ZN	100/110, 110/120, 200/220, or 220/240 VAC	---	---	---	---
		---	---		12 or 24 VDC	---	---	---	---
	Models with built-in diodes	---	---	LY2Z-D	12, 24, or 48 VDC	---	---	---	---
	Models with built-in diodes and operation indicators	---	---	LY2ZN-D2	12, 24, or 100/110 VDC	---	---	---	---
	Models with built-in CR circuits	---	---	LY2Z-CR	100/110 VAC	---	---	---	---
	Models with built-in CR circuits and operation indicators	---	---	LY2ZN-CR	100, 110, 110/120, or 200/220 VAC	---	---	---	---

Relays with PCB Terminals

Number of poles		1 pole		2 poles		3 poles		4 poles	
Classification		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts	LY1-0		24, 100/110, 110/120, or 200/220 VAC	LY2-0	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	LY3-0	24, 100/110, or 200/220 VAC	LY4-0	24, 100/110, or 200/220 VAC
			12 or 24 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, 48, or 100/110 VDC
Bifurcated contacts	---	---	---	LY2Z-0	100/110 VAC	---	---	---	---
					24, 48, or 100/110 VDC				---

Case-surface Mounting

Number of poles		1 pole		2 poles		3 poles		4 poles	
Classification		Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)	Model	Rated voltage (V)
Models with single contacts	LY1F		24, 100/110, 110/120, 200/220, or 220/240 VAC	LY2F	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	LY3F	12, 24, 100/110, or 200/220 VAC	LY4F	12, 24, 100/110, or 200/220 VAC
			6, 12, 24, or 100/110 VDC		12, 24, 48, or 100/110 VDC		12, 24, or 100/110 VDC		12, 24, or 100/110 VDC
Bifurcated contacts	---	---	---	LY2ZF	24, 100/110, or 200/220 VAC	---	---	---	---
					12 or 24 VDC				---