CSM_LY_DS_E_4_5

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

Classification	Structure: Number of poles		Relays with Plug-in Terminals		Relays with PCB Terminals	Case-surface mounting
				With operation indicators		
Standard models Compliance with Electrical Appliances and Material Safety Act	1		∗LY1	∗∗LY1N	∗LY1-0	∗LY1F
	2		∗LY2	∗∗LY2N	∗LY2-0	∗LY2F
	2	Bifurcated	∗∗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		∗∗LY2-D	∗∗LY2N-D2	---	---
	2	Bifurcated	∗∗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		∗∗LY2-CR	∗∗LY2N-CR		
	2	Bifurcated	∗∗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 12 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.

Models with Plug-in Terminals

Classification		Number of poles	1 pole		2 poles		3 poles		4 poles	
			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, or220/240 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
	Models with built-in CR circuits		—	—	LY2-CR	100/110, 110/120, 200/220, or 220/240 VAC	---	---	---	---
	Models with built-in CR circuits and operation indicators		—	—	LY2N-CR	100/110, 110/120, 200/220, or 220/240 VAC	---	---	---	---
Bifurcated contacts	Standard models		—	—	LY2Z	100/110 or200/220 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, 110/1 20, or 200/220 VAC	---	---	---	---

Relays with PCB Terminals

Classification	Number of poles	1 pole		2 poles		3 poles		4 poles	
		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

Classification	Number of poles	1 pole		2 poles		3 poles		4 poles	
		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				