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SLC 500™ Relay Output Modules and Fixed Controllers

Relay Output Contact Performance

The table below lists the typical life (number of operations) for relay output contacts switching Allen-Bradley Bulletin 500 AC contactors and the Bulletin 700 Type N DC relay. Data applies to combination modules, Catalog Numbers 1746-IO4, -IO8, -IO12; relay output modules, Catalog Numbers 1746-OW4, -OW8, -OW16, -OX8; and fixed controllers, Catalog Numbers 1747-L20A, -L20C, -L20F, -L20R, -L30A, -L30C, -L40A, -L40C, -L40F.

To extend contact life, each load had a surge suppressor connected directly across the coil. Connection diagrams and catalog numbers are shown on the following page.

The effect of using surge suppression is to reduce arcing of the output contacts (arcing can be caused by the high transient voltage occurring when switching an inductive load off). Contact life will be significantly less than the listed number of operations if surge suppression is not used when switching inductive loads.

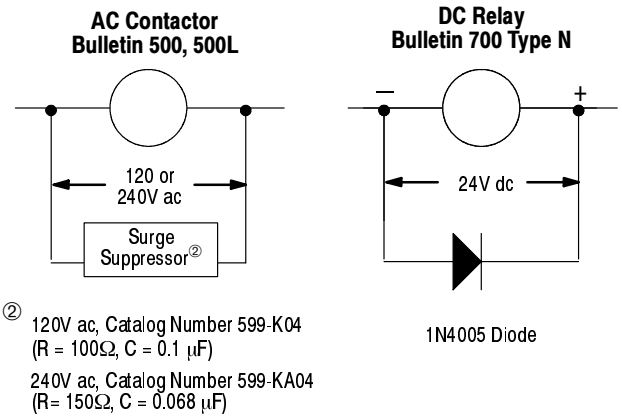
Contact Performance

Load	Switching Voltage	Amperes		Typical Life (Operations)
		Make	Break	
Size 1 Contactor Catalog Number 500-BOD93	120V ac①	1.60	0.24	2,500,000
Size 3 Contactor Catalog Number 500L-DOD93	120V ac①	5.50	0.38	1,250,000
Size 5 Contactor Catalog Number 500L-FOD93	120V ac①	12.40	0.80	500,000
Type N DC Relay Catalog Number 700DC-N200Z24	24V dc	6.00	0.40	2,500,000
Minimum Load	5V dc	0.01	0.01	20,000,000
No Load (mechanical life)	NA	NA	NA	20,000,000

NA (Not Applicable)

① Contact life will be higher when switching 240V ac contactors, since make/break ratings are lower for those devices.

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② 120V ac, Catalog Number 599-K04
(R = 100Ω, C = 0.1 μF)

240V ac, Catalog Number 599-KA04
(R= 150Ω, C = 0.068 μF)

Important: Typical life (operations) is based on actual testing by Allen-Bradley. Because of the many variables and requirements associated with any particular installation, Allen-Bradley cannot guarantee this contact life.

The contact life listed does not alter the terms of our standard warranty. All persons responsible for applying this product must satisfy themselves that each intended application of this product is acceptable.

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