219 Series - Industrial Relays DPDT, up to 6PST, 10 Amps



Versatile. Rugged. Proven. These are but a few words used by customers to describe the 219 series. When long life and cost of down time / service are important the 219 solves the problem. It's a standard throughout industrial applications which many other relays are measured against. Capable of up to four poles double throw or six poles single throw. Contact arrangements are easily customized for special applications. NUCLEAR versions are available that utilize special platings and materials to minimize wear. All 219s are built with materials that meet the UL 94-V0 requirements.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration Up to 4PDT or 6PST
Contact Material Silver Alloy-Gold Diffused
Contact Rating

120 / 240 VAC Resistive 10 Amp / 5 Amp 28 VDC Resistive 10 Amp Contact Resistance, Initial 50 milliohms max @ 6vdc

Coil:

Coils Available

Nominal Coil Power

Input Voltage Tolerance - AC

Input Voltage Tolerance - DC

Drop-out voltge

Duty

AC and DC

AC 5VA DC 1.8-2.5W

85% to 110% of nominal

80% to 110% of nominal

10% of nominal

Continuous

Timing:

Operate Time (max) 25 mS Release Time (max) 20 mS

Dielectric Strength:

Across Open Contacts

Between mutually insulated point
Insulation resistance

500Vrms
1500Vrms
1,000 Mohms min @ 500VDC

Temperature:

Operating $AC = -20 \text{ to } 60^{\circ}\text{C } (-4 \text{ to } 140^{\circ}\text{F})$ $DC = -20 \text{ to } 70^{\circ}\text{C } (-4 \text{ to } 158^{\circ}\text{F})$ Storage $-40 \text{ to } 105^{\circ}\text{C } (-40 \text{ to } 221^{\circ}\text{F})$

Life Expectancy:

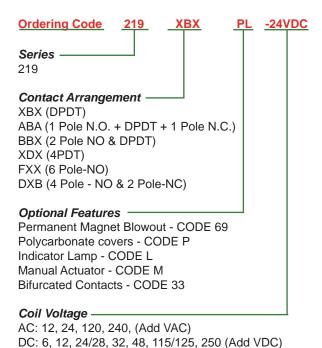
Electrical (full load) 100,000 Mechanical (no load) 10,000,000

Miscellaneous:

Mounting Position
Enclosure
Weight
Mating socket
(UL Listed when used)
Any
Clear Polycarbonate
8.5oz (241 grams)
12 PIN: 27390 (D)
14 PIN: 33377 (D)
(D) is option for DIN Rail Mount



General Purpose Relays



Coil voltages and frequencies must be specified

Contact Load Ratings

Highest Load for Standard Contacts

(Current - A, Resistive unless otherwise noted)

 Voltage
 Make
 Carry
 Break

 28 VDC, "69"
 10A
 10A

 48 VDC, "69"
 5A
 5A

 10A
 10A
 10A

 425 VDC, "69"
 4A
 4A

3A

4A

250 VDC, "69"

1A

10A*, 3A Inductive, 1/6HP*

120 VAC

10A*, 3A Inductive, 1/6HP*

10A, 5A*, 1/3HP*

240 VAC 10A, 5A*, 1/3HP*
10A, 5A*, 1/3HP*
10A
277 VAC 7A
4.5A

Contact ratings which include an "*" are UL Approved.

Use Code "69" for blowout magnet when switching voltages above 40VDC. (NOT UL OR CSA APPROVED)

Use Code "33" for bifurcated contacts when switching low level current below 50mA.

219 Coil Specifications

210 Com opcomodnomo								
AC Coils, 50/60HZ					DC Coils_			
Nominal Resistance Milliamperes Impedance					Nominal Resistance Milliamperes			
voltage	ohms	Cold	Hot	ohms	voltage	ohms	Cold	Hot
	±10%					±10%		
6	1.1	1500	840	7.2	6	15.5	385	304
12	4.2	750	410	27	12	63.5	189	147
24	15.5	375	200	120	24 /28*	250	96	77
120	540	75	40	2,700	32	375	86	62
240	2100	32	17	13,400	37.5	375	100	80
					48	975	49	39
					115/125*	6200	20	16
					250	27777	9	7

Note: Stock 24VDC and 115VAC relays have nameplates stamped 24/28VDC and 115/125VAC respectively. These relays operate at 80% of the lower voltages and operate within allowable temperature rises at higher voltages.

