

# 219 Series - Industrial Relays

## DPDT, 4PDT, 6PST, 10 Amps



File No. E13224



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 available.

### GENERAL SPECIFICATIONS (@ 25° C)

#### Contacts:

Contact Configuration	Upto 4PDT or 6PST
Contact Material	Silver Alloy-Gold Diffused
Contact Rating	10 Amp / 5 Amp
120 / 240VAC Resistive	10 Amp
28VDC Resistive	10 Amp
Contact Resistance, Initial	50 milliohms max @ 6vdc

#### Coil:

Coils Available	AC and DC
Nominal Coil Power	AC 5VA DC 1.8-2.5W
Input Voltage Tolerance - AC	85% to 110% of nominal
Input Voltage Tolerance - DC	80% to 110% of nominal
Drop-out voltage	10% of nominal
Duty	Continuous

#### Timing:

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

#### Dielectric Strength:

Across Open Contacts	500Vrms
Between mutually insulated point	1500Vrms
Insulation resistance	10,000 Mohms min @ 500VDC

#### Temperature:

Operating	AC = -20 to 60°C (-4 to 140°F) DC = -20 to 70°C (-4 to 158°F)
Storage	-40 to 105°C (-40 to 221°F)

#### Life Expectancy:

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

#### Miscellaneous:

Mounting Position	Any
Enclosure	Clear Polycarbonate
Weight	8.5oz (241 grams)



# General Purpose Relays

**Ordering Code**    **219**    **XBX**    **PL**    **-24VDC**

**Series**

219

**Contact Arrangement**

XBX (DPDT)  
 ABA (1 Pole N.O. + DPDT + 1 Pole N.C.)  
 BBX (2 Pole NO & DPDT)  
 XDX (4PDT)  
 FXX (6 Pole-NO)  
 DXB (4 Pole - NO & 2 Pole-NC)

**Optional Features**

Permanent Magnet Blowout - CODE 69  
 Polycarbonate covers - CODE P  
 Indicator Lamp - CODE L  
 Manual Actuator - CODE M  
 Bifurcated Contacts - CODE 33

**Coil Voltage**

AC: 12, 24, 120, 240, (Add VAC)  
 DC: 6, 12, 24/28, 32, 48, 115/125, 250 (Add VDC)

Coil voltages and frequencies must be specified

Voltage	Make	Carry	Resistive	Inductive
120VAC	30 Amp	10 Amp	10 Amp	3 Amp
240VAC	30 Amp	10 Amp	5 Amp	1 Amp
24VDC	30 Amp	10 Amp	10 Amp	5 Amp
28VDC	30 Amp	10 Amp	10 Amp	3 Amp
125VDC	30 Amp	10 Amp	0.5 Amp	0.1 Amp

For versions with suffix "69" permant magnet blowouts

Voltage	Make	Carry	Resistive	Inductive
125VDC (SM)	30 Amp	10 Amp	1.5 Amp	0.5 Amp
125VDC (DM)	30 Amp	10 Amp	4 Amp	1.5 Amp
250VDC (SM)	30 Amp	10 Amp	0.5 Amp	150 mAmp
250VDC (DM)	30 Amp	10 Amp	1.5 Amp	0.5 Amp

Note: SM = Single make  
 DM = Double make

## 219 Coil Specifications

AC Coils, 50/60HZ				DC Coils				
Nominal voltage	Resistance ohms ±10%	Milliamperers Cold	Hot	Impedance ohms	Nominal voltage	Resistance ohms ±10%	Milliamperers Cold	Hot
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	48	975	49	39
-	-	-	-	-	115/125*	6200	20	16
-	-	-	-	-	250	12400	20	16

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

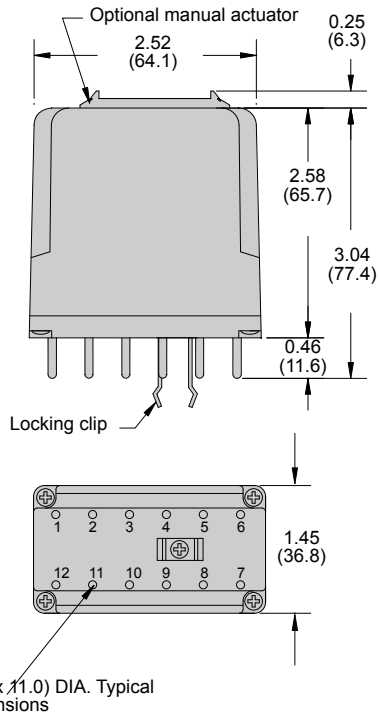
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### Outline Dimensions

Dimensions Shown in inches & (millimeters)

#### 12 Pin Plug-in



#### 14 Pin Plug-in

