255 Series - Industrial Latching Relays
3PDT or 4PST, 10 Amp

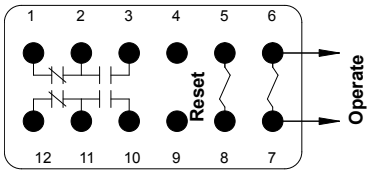
File No. E13224

The 255 Series is a two coil latching version of the general purpose type 219 relay. When the operate coil is momentarily energized, contacts transfer and remain so even after coil power is removed. The second coil when momentarily energized, provides electrical reset of the contacts. All contacts operate from a common armature to prevent contatct overlapping. Coils are rated for continous duty. Both coils can be energized at the same time with no damage. The operate coil is dominant

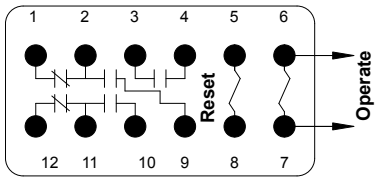
GENERAL SPECIFICATIONS (@ 25° C)

Contacts:	
Contact Configuration	Up to 3PDT or 4PST
Contact Material	Silver Alloy Gold Diffused
Contact Rating	
120 / 240VAC Resistive	10 Amp / 5 Amp
28VDC Resistive	10 Amp
Contact Resistance, Initial	100 milliohms max @ 6VDC
Coil:	
Coils Available	AC and DC
Nominal Coil Power	4.9VA 1.8W
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)	25mS
Release Time (max)	20mS
Dielectric Strength:	
Across Open Contacts	1500Vrms
Between Mutally Insulated Points	1500Vrms
Insulation Resistance	100 Megohms min @ 500VDC
Temperature:	
Operating	-20 to 60°C (-4 to 140°F)
Storage	-40 to 105°C (-40 to 221°F)
Life Expectancy:	
Electrical (full load operations)	100,000
Mechanical (no load operations)	10,000,000
Miscellaneous:	
Mounting Position	Any
Mating Socket	27390D
Enclosure	Clear Polycarbonate
Weight	11.8oz (300 grams)

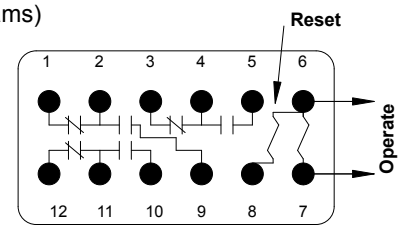
255 Wire Diagram
(Top View)



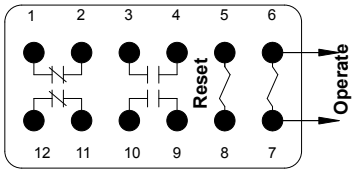
255XBX (DPDT)



255ABX (1 N.O + DPDT)



255XCX (3PDT)



255BXB (2 N.O. + 2 N.C.)

Latching / Sequencing Relays
10 - 100 Amp

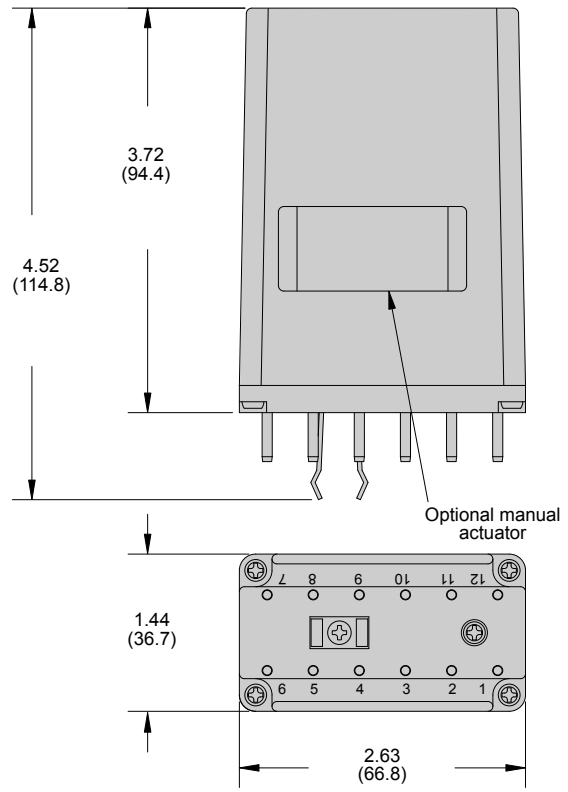
255 Contact Load Specifications

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

Outline Dimensions

Dimensions Shown in inches & (millimeters)



Ordering Code 255 XCX P LM-

Series
255

Contact Arrangement
XBX (DPDT) - (2 form C)
XCX (3PDT) - (3 form C)
ABX (DPDT & 1 N.O. contact)
BXB (DPDT-N.O. & 2 form C)

Standard Features
Polycarbonate cover - CODE P

Optional Features
Permanent magnet blowout - CODE 69
Indicator lamp across both coils - CODE L
Manual actuator - CODE M

Coil Voltage
AC: 6, 12, 24, 120, 240 (Add VAC)
DC: 6, 12, 24, 48, 115-125 (Add VDC)

Coil Specifications

AC Coil, 50/60HZ

Reset coil (3VA)		Operate Coil (5VA)		
Nominal voltage	Resistance ohms ±10%	Coil Power (mA) ±10%	Resistance ohms	Coil Current (mA)
6	3.0	840	1.10	800
12	14.5	256	4.20	410
24	52.0	150	15.5	200
120	1450	26.5	540	45.0
240	5000	4.8	1815	13.2

DC Coil

Reset coil (1.4W)		Operate Coil (1.8W)		
Nominal voltage	Resistance ohms ±10%	Coil Power (mA) ±10%	Resistance ohms	Coil Current (mA)
6	3.0	840	1.10	800
12	14.5	256	4.20	410
24	52.0	150	15.5	200
120	1450	26.5	540	45.0
240	5000	4.8	1815	13.2