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



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 momentarly energized, provides electrical reset of the contacts. All contacts operate from a common armature to prevent contact overlapping. Coils are rated for continous duty. Both coils can be energized at the same time with no damage. The operate coil is dominant



Contacts:

Contact Configuration Up to 3PDT or 4PST Silver Alloy Gold Diffused **Contact Material** Contact Rating

10 Amp / 5 Amp 120 / 240VAC Resistive 28VDC Resistive 10 Amp 100 milliohms max @ 6VDC Contact Resistance, Initial

Coil:

Coils Available AC and DC 4.9VA 1.8W Nominal Coil Power 85% to 110% of nominal Input Voltage Tolerance - AC Input Voltage Tolerance - DC 80% to 110% of nominal 10% of nominal Drop out voltage Continuous Duty

Timing:

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

Dielectric Strength:

Across Open Contacts 1500Vrms Between Mutally Insulated Points 1500Vrms Insulation Resistance 100 Megohms min @ 500VDC

Temperature:

-20 to 60°C (-4 to 140°F) Operating -40 to 105°C (-40 to 221°F) Storage

Life Expectancy:

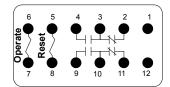
Electrical (full load operations) 100,000 Mechanical (no load operations) 10,000,000

Miscellaneous:

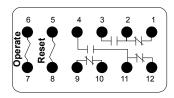
Mounting Position Any Mating Socket 27390D Clear Polycarbonate Enclosure 11.8oz (300 grams) Weight



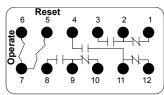
255 Wire Diagram (Top View)



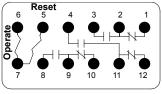
255XBX (DPDT)

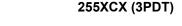


255ABX (1 N.O + DPDT)



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







Latching / Sequencing Relays

10 - 100 Amp

255 Contact Load Specifications

233 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" permanent magnet blowout							
	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

Coil Specifications

*AC Coil, 50/60HZ								
Reset coi	il (3VA)	Operate Coil (5VA)						
Nominal	Resistance	Coil Power	Resistance	Coil Current				
voltage	ohms	(mA)	ohms	(mA)				
	±10%	±10%						
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				

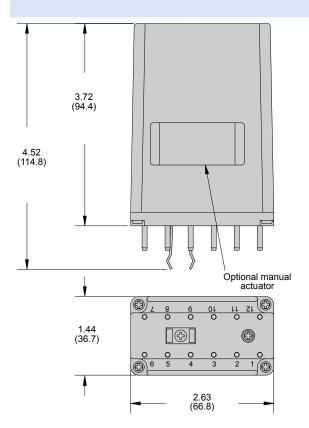
Current inrush on all AC coils is less than twice the listed milliamperes ratings as shown in the AC coil data table. *Currents shown in table measured at 60Hz

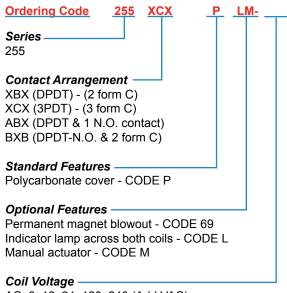
DC Coil								
Reset co	il (1.4W)	Operate Coil (1.8W)						
Nominal Resistance		Coil Power	Coil Current					
voltage	ohms	(mA)	ohms	(mA)				
	±10%	±10%						
6	21.0	286	15.5	385				
12	85.0	141	63.5	189				
24	300	80	250	96.0				
115/125	8000	14.4	6200	20.0				

DC relays, 1.8 Watts (2.5 Watts @ 125VDC)

Outline Dimensions

Dimensions Shown in inches & (millimeters)





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