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 momentarily 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



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
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:

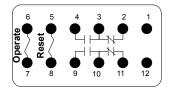
Electrical (full load operations) 100,000 Mechanical (no load operations) 10,000,000

Miscellaneous:

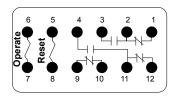
Mounting PositionAnyMating Socket27390DEnclosureClear PolycarbonateWeight11.8oz (300 grams)



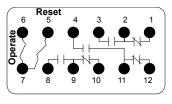
255 Wire Diagram (Top View)



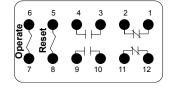
255XBX (DPDT)



255ABX (1 N.O + DPDT)



255XCX (3PDT)



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



Latching / Sequencing Relays

10 - 100 Amp

255 Contact Load Specifications

	200 Contact Load Opecinications							
	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 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

Coil Specifications

*AC Coil, 50/60HZ								
Reset co	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				

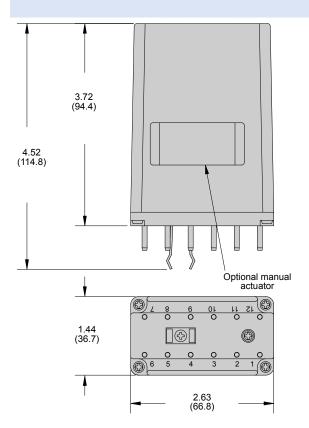
Current inrush on all AC coils is less than twice the listed milliamperes ratings as shown in the AC coil data table. *Currents shown in table measured at 60Hz

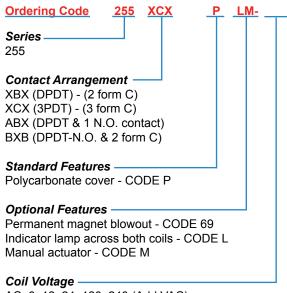
DC Coil									
Reset co	il (1.4W)	Operate Coil (1.8W)							
Nominal Resistance		Coil Power	Resistance	Coil Current					
voltage	ohms	(mA)	ohms	(mA)					
	±10%	±10%							
6	21.0	286	15.5	385					
12	85.0	141	63.5	189					
24	300	80	250	96.0					
115/125	8000	14.4	6200	20.0					

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)