311 Series - Industrial Sequencing
DPDT, 5 Amp

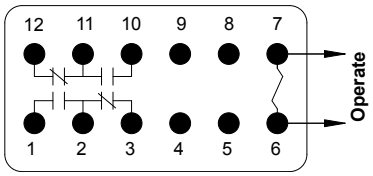
File No. ES2197

The 311 Series relays are sequencing (stepper) relays built on the industrial 219 style frame. Hold down clip is integral to the relay base. Double pole contacts transfer on energizing of coil or de-energizing. Dual cam movement allows contacts to operate together or separately. Works equally well with application of continous voltage to coil or energy saving impulse. No continuous voltage required for memory. Numerous custom switching arrangements are possible over 8 steps per revolution of the cams.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:	
Contact Configuration	DPDT
Contact Material	Silver Alloy
Contact Rating	
120 / 240VAC Resistive	5 Amp
28VDC Resistive	5 Amp
Contact Resistance, Initial	100 milliohms max @ 6VDC
Coil:	
Coils Available	AC or DC up to 300V
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)	35mS
Release Time (max)	35mS
Dielectric Strength:	
Across Open Contacts	1500Vrms
Between Mutally Insulated Points	1500Vrms
Insulation Resistance	1,000 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)	5,000,000
Miscellaneous:	
Mounting Position	Any
Mating Socket	27390D
Enclosure	Clear Polycarbonate
Weight	7.5oz (190 grams)

311 Wire Diagram
(Top View)



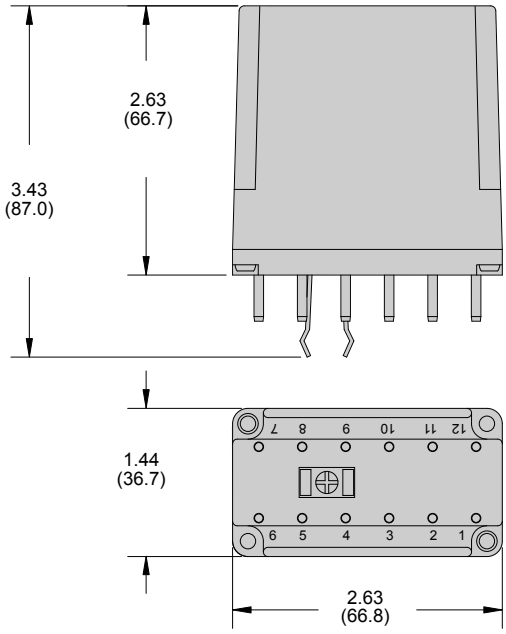
311XBXP
311XBXPR*
*Transfer on release

Coil Specifications

AC Coil, 50/60HZ		*DC Coil*	
Nominal voltage	Resistance ohms ±10%	Nominal voltage	Resistance ohms ±10%
6	1.1	6	15.5
12	4.2	12	63.5
24	15.5	24	250
120	540	48	970
240	1815	110-125	6200

Outline Dimensions

Dimensions Shown in inches & (millimeters)



Ordering Code 311 XBX P R L -120VAC

Series
311

Contact Arrangement
XBX (DPDT) - (2 form C)

Standard Features
Plug-in with polycarbonate cover - CODE P

Contact Transfer
When coil is energized - NO CODE
When coil is de-energized - CODE R

Optional Features
Indicator lamp - CODE L
Coil suppression - CODE V

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