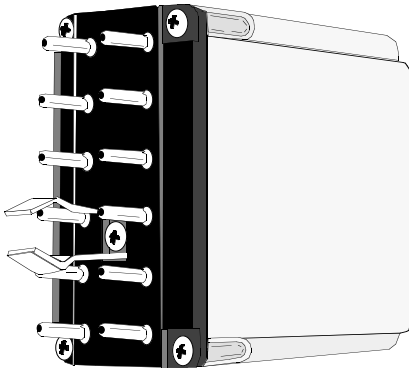
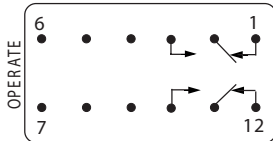


Class 311 Relay is a sequencing version of the 219 series general purpose relay. Contacts transfer on each Impulse to the coil. Models are available with contacts transferring when coil is energized or when de-energized. A double cam movement, one cam per snap switch, allows one or both contacts to be energized or de-energized with the cam rotating one half-step when the coil is energized and the other half step when the coil is de-energized assures reliable sequencing of the two SPDT snap switches.



WIRING DIAGRAM
Viewed from Pin Side

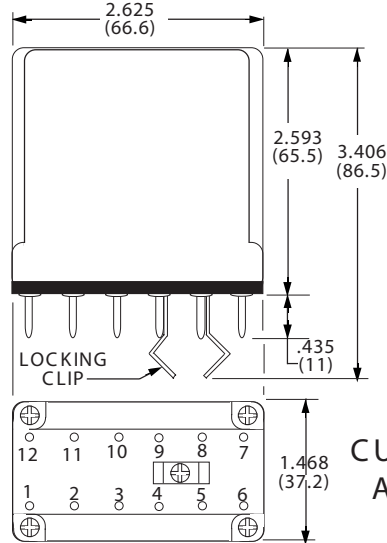


A311XBXP
A311XBXP *
(DPDT)

*Transfer on Release

CONTACT RATINGS

LOAD	120VAC	30VDC	115VDC
Resistive	5A	5A	0.1A
Max. Inrush	12A	12A	0.25A



CUSTOM STEPPING
ARRANGEMENTS
AVAILABLE



GENERAL SPECIFICATIONS (@ 25°C)	
COIL	
Pull-in, min. AC	85% of Nominal Voltage
Pull-in, min. DC	80% of Nominal Voltage
Overvoltage, max.	110% of nominal, voltage
CONTACTS	
Contact Material:	Silver Alloy
TIMING	
Operate Time: (operate coil)	35 mS Max. @ Nominal Voltage.
Release Time: (Reset coil energized)	35 mS Max. @ Nominal Voltage.
DIELECTRIC STRENGTH	
Across open Contacts:	500 V rms
Between mutually insulated current carrying parts & those parts to ground:	1500 V rms
Insulation Resistance :	1000 Megohm minimum @ 500 VDC
TEMPERATURE	
Rated Operation:	-10°C to +60°C
LIFE EXPECTANCY	
Mechanical:	5 Million Operations no load
Electrical:	100,000 Operations @ Rated Load.
MISCELLANEOUS	
Enclosure:	Clear polycarbonate.
Weight:	190 g (6.70 oz.) approx.

STRUTHERS-DUNN

ORDERING CODE

Typical Type No. **A311 XBXP P R L -120A**

Series _____
 A311 Industrial plug-in ,
 Sequence Relay, 5 Amp, DPDT

Contact Arrangements _____
 XBXP (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

Options _____
 Indicator Lamp - CODE L
 Coil Suppression - CODE V

Coil Voltage _____
 AC6, 12, 24, 120, 240 (Add "A")
 DC: 6, 12, 24, 48, 110-125 (Add "D")

COIL SPECIFICATIONS @ 25 C

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

NOTE: Relays with other coil characteristics may be supplied to meet specific application requirements. 250VDC operation may be obtained by wiring a 6,200 Ohm, 5 Watt resistor in series with the 110-125VDC coil. The resistor must be mounted external to the A311.

MATING SOCKET
27390D