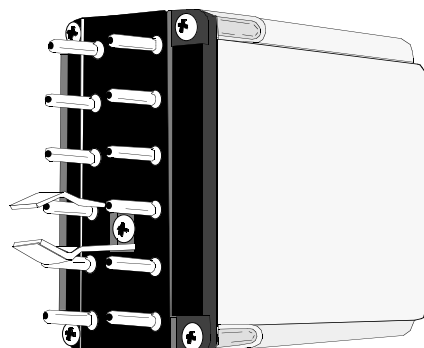


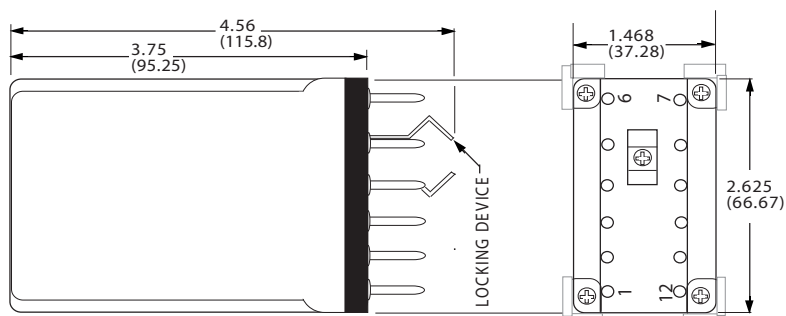
The **255 Series** is a two coil latching version of the general purpose type 219 relay. When the operate coil is momentarily energized, the energized position with the power removed from the coil. The second coil when momentarily energized, provides electrical reset of the contacts. All contacts operate from a common armature to prevent contact overlapping. Coils are rated for continuous duty.



NUCLEAR QUALIFIED VERSION AVAILABLE

OUTLINE DIMENSIONS

Dimensions shown Inch & (Millimeters)



OPTIONS

- * Electrical Set Manual Reset
- * Manual Set Electrical Reset

GENERAL SPECIFICATIONS (@ 25°C)

COIL

Pull-in, min. AC
Pull-in min. DC
Overvoltage, max.

85% of Nominal Voltage
80 % of Nominal Voltage
110% of nominal, voltage

CONTACTS

Contact Material:

Silver Alloy & Gold Diffused
(Standard)

TIMING

Operate Time: (operate coil)
Release Time: (Reset coil energized)

25 mS Max. @ Nominal Voltage.
20 mS Max. @ Nominal Voltage.

DIELECTRIC STRENGTH

All Mutually Insulated Points:
Insulation :

1500 V rms
1/4" over surface, 1/8" thru Air

TEMPERATURE

Rated Operation:

-10 °C to +60 °C

LIFE EXPECTANCY

Mechanical:
Electrical:

10 Million Operations no load
100,000 Operations @ Rated Load.
500,000 Operations 1/2 Rated Load.

MISCELLANEOUS

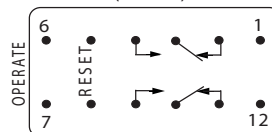
Enclosure:
Weight:

Clear polycarbonate.
215 g (7.58 oz.) APPROX.

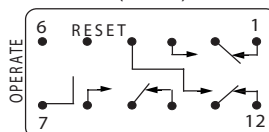
WIRING DIAGRAMS

(VIEWED FROM TERMINAL END)

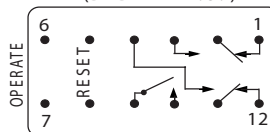
B255BXP
(DPDT)



B255XCXP
(3 PDT)

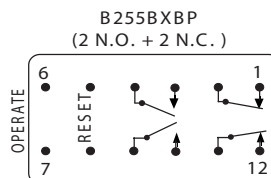


B255ABXP
(DPDT + 1 N.O.)



MATING SOCKETS
27390 - 12 PIN

TYPE	CONTACTS
B255ABXP	DPDT + 1 NO
B255BXP	DPDT
B255XCXP	3PDT
B255BXP	2 NO + 2 NC





STRUTHERS-DUNN

ORDERING CODE

Typical Type No. B 255 XCX P LM -

Series

B255 2 Coil Latch plug-in

Contact Arrangements

XBX DPDT
XCX 3PDT
ABX SPST-NO & 2 Form C
BXX DPST-NO & 2 Form B

Standard Features

Polycarbonate Cover- **CODE "P"**

Optional Features

Indicator Lamp across both coils - **CODE "L"**

Manual Actuator- **CODE "M"**

Perm. Magnet Blowout - **CODE "69"**

Coil Voltage

Coil Voltages & Frequencies must be specified.

Note: For time delay on energizing reset coil, specify 256 series in lieu of B255

DC RELAYS, 1.8 WATTS (2.5 W @ 125VDC)

OPTIONS

130°C Coil
Coil Suppression
Light & Actuator
Fine Silver-Gold Diffused Bifurcated Contacts

SUFFIX

U
V
LM
33

COIL SPECIFICATIONS @ 25°C

*AC COIL, 50/60 HZ

Nominal Voltage	RESET COIL (3VA)		OPERATE COIL (5VA)	
	Resistance Ohms ± 10%	Coil Power (mA)	Resistance Ohms ± 10%	Coil Power (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 DATA

Nominal Voltage	RESET COIL 1.4W)		OPERATE COIL (1.8W)	
	Resistance Ohms ± 10%	Coil Power (mA)	Resistance Ohms ± 10%	Coil Power (mA)
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 W @ 125VDC)

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 60 Hz.

CONTACT RATINGS

VOLTS	MAKE	CARRY	BREAK	
			RESISTIVE	INDUCTIVE
24 VDC	30A	10A	10A	10A
120 VAC	30A	10A	10A	3A
240 VAC	30A	10A	5A	1A
28 VDC	30A	10A	10A	3A
125 VDC	30A	10A	0.5A	0.1A
** For versions with suffix "69" Permanent Magnet Blowouts				
125 VDC SM	30A	10A	1.5A	0.5A
125 VDC DM	30A	10A	4A	1.5A
250 VDC SM	30A	10A	0.5A	150 mA
250 VDC DM	30A	10A	1.5A	0.5A

**Relays with Code 69 feature (Check with factory for UL & CSA Listing).