

255 Series - Industrial Latching Relays

3PDT or 4PST, 10 Amp

Nuclear Grade Available



File No. E13224



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. There is an optional manual reset actuator. All contacts operate from a common armature to prevent contact overlapping. Coils are rated for continuous 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	
120VAC Resistive	1/6 hp, 10 Amp
240VAC Resistive	1/3 hp, 5 Amp
28VDC Resistive	10 Amp
Minimum current	50 mA
Contact Resistance, Initial	50 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	80% to 110% of nominal
Drop out voltage	10% of nominal
Duty	Continuous

Timing:

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

Dielectric Strength:

Across Open Contacts	1500Vrms
Between Mutually 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)

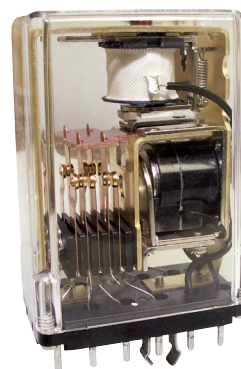
Life Expectancy:

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

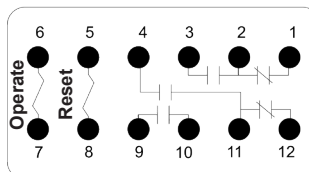
Miscellaneous:

Mounting Position	Any
Mating Socket	Clear Polycarbonate
Enclosure	8.5oz (241 grams)
Weight	12 PIN: 27390 (D)
	14 PIN: 33377 (D)

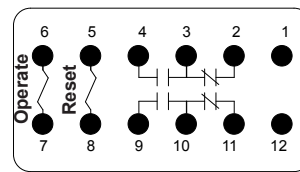
(D) is option for DIN Rail Mount - Not UL listed



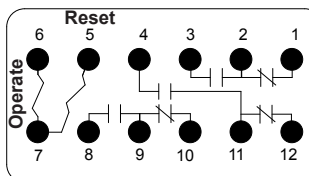
255 Wire Diagram
(Top View)



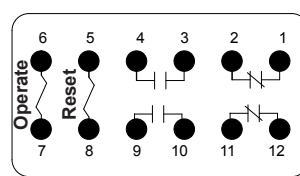
255ABX (1 N.O + DPDT)



255XBX (DPDT)



255XCX (3PDT)



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

Latching / Sequencing Relays

10 Amp

Series 255 Part Numbering System

Series Part Number: 255 XBX *69 P L M V1 33 N 120VAC

Contact Type : Standard 10 Amp Gold Diffused Silver Alloy (minimum 50 mA)
Bifurcated – 5 Amp Gold Diffused Silver Alloy (Ideal for less than 50 mA)

Contact Combination: Standard – 12 Pin Plug (others available)

- XBX (DPDT) (2 Form C)**
- XCX (3PDT) (3 Form C)**
- AAX (SPST- NO & SPDT) (1 Form A & 1 Form C)
- AAB (SPST & SPDT & DPST-NC) (1 Form A & 1 Form C & 2 Form B)
- ABX (SPST- NO & DPDT) (1 Form & 2 Form C)
- AXB (SPST- NO & 2PST- NC) (1 Form A & 2 Form B)**
- AXC (SPST- NO, 3PST- NC) (1 Form A, 3 Form, B)
- BAA (DPST & SPDT & SPST-NC) (2 Form A & 1 Form C & 1 Form B)
- BXB (DPST- NO & DPST- NC) (2 Form A & 2 Form B)**
- XBA (DPDT & SPST- NC) (2 Form C & 1 Form B)
- CXA (3PST- NO & SPST- NC) (3 Form A & 1 Form B)
- DXX (4PST- NO) (4 Form A)
- XXD (4PST- NC) (4 Form B)
- HXX (SPST- NO-DM) (Form X)
- XXH (SPST- NC-DB) (1 Form Y)
- HXH (SPST-NO-DM & SPST-NC-DB) (1 Form X & 1 Form Y)
- JXX (DPST- NO-DM) (2 Form X)
- XXJ (DPST- NC-DB) (2 Form Y)
- XHX (SPDT- DM-DB) (1 Form Z)

Other special options available – 14 Pin, special adjustments, special wiring, octal plug

Enclosure: Lexan Finger Protective Cover – P (Standard)
Other special options available – Gasket sealed cover, colored covers

Other Option Codes:

- Blowout Magnet – Code 69 ***NOTE: 69 places before “P” in part # order**
- LED indicator – Code L (Special optional LED available)
- Manual Actuator – Code M (Special option available - Locking Manual Actuator)
- Coil Suppression Diode – Code V (VDC version only)
- AC Coil - Arc Suppression Network – V1 (VAC only) (Not UL Listed)
- Bifurcated Contacts – Code 33 (5 Amp@120VAC UL - Rated) (Special option - mixed bifurcated and standard contacts)
- Cover Gasket - Code N

Other special options available: Arc Suppressor (back EMF) Network across coil,

Coil Voltage – Class B, 105C Insulation system

- VAC – 6, 12, 24, 120, 208, 220, 240
- VDC - 6, 12, 24, 48, 110/125, 250

Other special options available: special coil resistances & voltages, Arc Suppressor (back EMF) Network across coil