

FEATURES

0.250" QUICK CONNECT/
SOLDER TERMINALS:

2 MM CONTACT GAPS:

COMPACT DESIGN:

WIDE SELECTION OF COVER
STYLES AND OPTIONS:

BENEFITS

SIMPLE INSTALLATION, WILL ACCEPT FULLY
INSULATED (BOOTED) TERMINALS

MEETS NEARLY ALL INTERNATIONAL
REQUIREMENTS FOR SPACING

HANDLES "CONTACTOR LOADS"
IN A CONTROL RELAY PACKAGE.

CAN BE "CUSTOMIZED" AS NEEDED
WITHOUT EXCESSIVE COST OR MINIMUMS



GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
COIL		
Pull-in Voltage AC (50/60 Hz):≤	% of nominal	85
Pull-in Voltage DC:≤	% of nominal	80
Dropout Voltage AC (50/60 Hz):≥	% of nominal	Not applicable
Dropout Voltage DC:≥	% of nominal	Not applicable
Maximum Voltage:	% of nominal	500
Resistance Tolerance:	% ±	10
Coil Power AC (50/60 Hz):	VA	2
Coil Power DC:	W	1.64
Insulation System Per UL Standard 1446:		Class B (130°C) Class F (155°C)
Duty:		Continuous
CONTACTS		
Contact Material:		Silver alloy, gold flashed
Contact Rating AC Amperes (AC1):	A	30
Contact Rating AC Voltage:	V	277
Contact Rating DC Amperes (DC1):	A	30
Contact Rating DC Voltage:	V	28
Horse Power (AC):	HP	1/3 @ 120 V
Horse Power (AC):	HP	1/2 @ 208 V to 600 V
Pilot Duty (60 Hz):		Not applicable
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W
TIMING		
Operate Time:	ms	30
Release Time:	ms	30
DIELECTRIC STRENGTH		
Coil to Contacts:	V rms	4000
Across Open Contacts:	V rms	1000
Pole to Pole:	V rms	2200
Contacts to Frame:	V rms	Not applicable
Insulation Resistance:	megohms minimum @VDC	1000 @ 500
TEMPERATURE		
Operating, AC Lower:	°C	-40
Operating, AC Upper:	°C	+60
Operating, DC Lower:	°C	-40
Operating, DC Upper:	°C	+65
Storage, Lower:	°C	-40
Storage, Upper:	°C	+105
LIFE EXPECTANCY		
Electrical @ Rated Load (AC1):	operations	100,000
Mechanical @ no Load :	operations	10,000,000
MISCELLANEOUS		
Operating Position:		Any
Insulation Material:		Molded plastic
Enclosure Material:		Clear Polycarbonate
Cover Protection Category:	IP	40
Weight:	grams	170

MAGNETIC LATCHING RELAY WITH SQUARE BASE. OPERATES BY PULSED INPUT AND MAINTAINS LAST POSITION.

THE CLASS 303 RELAY HAS BEEN DESIGNED FOR INSTALLATION OF FULLY INSULATED 0.250" QUICK CONNECT TERMINALS. CONTACT GAPS ARE 2 MILLIMETERS WIDE TO MEET MOST STANDARDS FOR CREEPAGE AND CLEARANCE. THE OPTIONAL MAGNETIC BLOWOUT ALLOWS FOR HIGH VOLTAGE DC SWITCHING APPLICATIONS. ITS LATCH MECHANISM KEEPS IT IN ITS LAST SET POSITION UNTIL COMMANDED TO CHANGE BY MEANS OF A SEPARATE SIGNAL.



303 SQUARE BASE POWER MAGNETIC LATCHING RELAYS



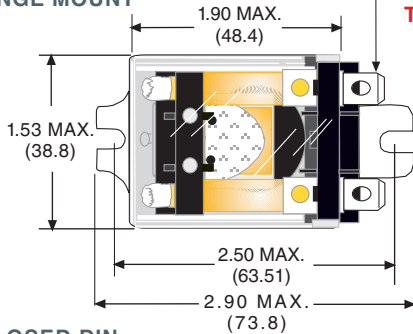
DPDT, 30 AMPS

WIRING DIAGRAM (VIEWED FROM PIN END)

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).

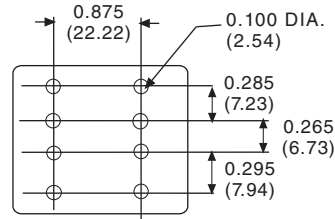
ENCLOSED FLANGE MOUNT



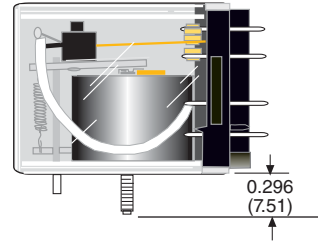
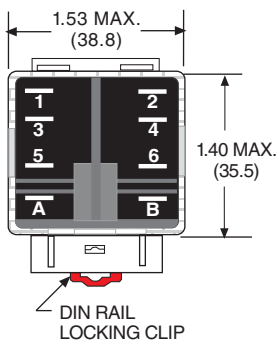
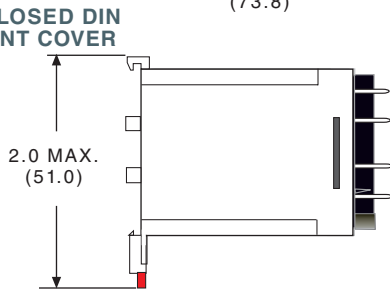
QUICK CONNECT/SOLDER TERMINALS



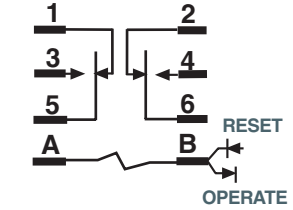
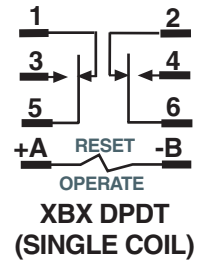
PRINTED CIRCUIT TERMINALS



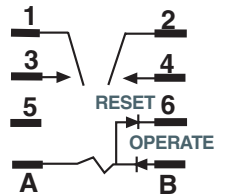
ENCLOSED DIN MOUNT COVER



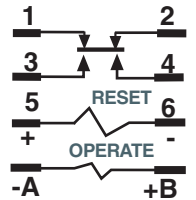
ENCLOSED STYLE CHOICE OF 6-32 STUD OR TAPPED CORE WITH ANTI ROTATION TAB.



XBX DPDT (AC SINGLE COIL)



BXX DPST - N.O. (AC SINGLE COIL)



XHX SPDT - N.C. - N.O. (DB - DM), (DUAL COIL)

ORDERING CODE

F **303** **XBX** **C1** **L** **-240A**

COILS:

130°C: NO CODE, 155°C: CODE F

CLASS:

303 - 30 AMPS RATING WITH 0.25 QUICK CONNECT/SOLDER TERMINALS

CONTACT ARRANGEMENTS:

XBX: DPDT, BXX: DPST-N.O.
XHX: SPDT - DM -DB, XXB: DPST-N.C.

CONSTRUCTION STYLE:

*ENCLOSED, PLAIN COVER: CODE C
ENCLOSED, SIDE FLANGE MOUNT: CODE C1
ENCLOSED, 6-32 TAPPED CORE & ANTI-ROTATION TAB: CODE CS2
ENCLOSED, 6-32 STUD & ANTI-ROTATION TAB: CODE CS2
ENCLOSED, TOP FLANGE MOUNT: CODE C3
ENCLOSED, DIN MOUNT: CODE C4

TERMINALS STYLE:

SOLDER/QUICK CONNECT TERMINALS: NO CODE
*PRINTED CIRCUITS TERMINALS: CODE T

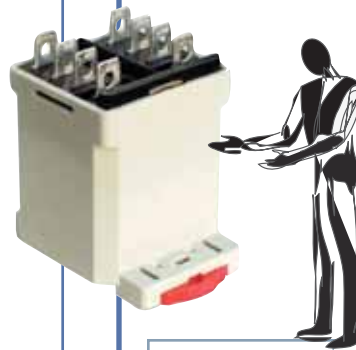
OPTIONS:

L.E.D. STATUS LAMP: CODE L (NOT AVAILABLE W/CODE 4)
MAGNET BLOWOUT: CODE 69
**DUAL COIL: CODE D

COIL VOLTAGE:

6, 12, 24, 120, 240 ADD "A" FOR AC COILS
6, 12, 24, 48, 110-125 ADD "D" FOR DC COILS

* Note: Code "C" Recommended To Be Used With Printed Circuit Terminals
** Note: Dual Coil Not Available On Xbx Contact Arrangement



STANDARD PART NUMBERS	CONTACT CONFIGURATION	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED, SINGLE COIL, 30 AMP			
303BXXC3-120A	DPST-N.O	120 VAC	6300 Ω
303XBXC1-120A	DPDT	120 VAC	6300 Ω
DC OPERATED, SINGLE COIL, 30 AMP			
303XBXC1-24D	DPDT	24 VDC	300 Ω
303XBXC4-24D	DPDT	24 VDC	300 Ω
303XBX69C-24D	DPDT	24 VDC	300 Ω
DC OPERATED, DUAL COIL, 30 AMP			
303XHXC1D-12D	SPDT-N.C.-N.O. (DB-DM)	12 VDC	70/70 Ω

RETROFITS POTTER & BRUMFIELD KUB
SEE END OF SECTION 5 FOR CROSS REFERENCE