

## FEATURES

2 MILLIMETER CONTACT GAPS AND 8 MILLIMETER CREEPAGE AND CLEARANCE

WIDE SPACING BETWEEN STATIONARY CONTACT TERMINALS

ARC BARRIERS BETWEEN CONTACTS

OPTIONAL BLOWOUT MAGNET

IMPROVED DIELECTRIC STRENGTH BETWEEN CONTACT

WIDE SELECTION OF MOUNTING OPTIONS

## BENEFITS

MEETS INTERNATIONAL REQUIREMENTS.

CLEARANCE FOR FULLY BOOted QUICK CONNECT TERMINALS

IMPROVED DIELECTRIC STRENGTH BETWEEN CONTACT SETS.

HIGH VOLTAGE DC SWITCHING

4000 Vrms DIELECTRIC BETWEEN MUTUALLY INSULATED CONDUCTIVE ELEMENTS AND FRAME.

ALLOWS INSTALLATIONS TO BE "CUSTOMIZED"



COMPLIES WITH REQUIREMENTS OF

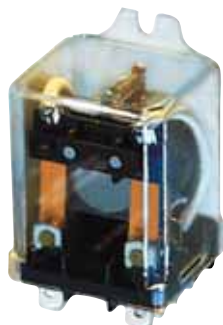
\* IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE

\* IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION

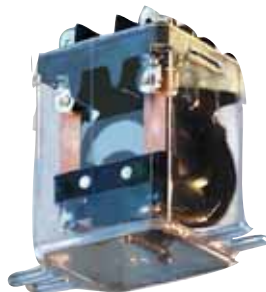
\* CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

MANUFACTURED  
UNDER  
ISO 9002  
& QS 9000

### STANDARD SIDE FLANGE COVER



### OPTIONAL TOP FLANGE MOUNT COVER

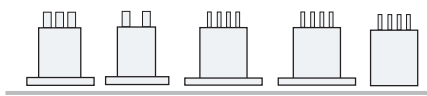


### OPTIONAL DIN MOUNT COVER



## GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
<b>COIL</b>		
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	10
Dropout Voltage DC:≥	% of nominal	10
Maximum Voltage:	% of nominal	110
Resistance:	% ±	10
Coil Power AC (60 Hz):	VA	3
Coil Power DC:	W	2
Insulation System Per UL Standard 1446:		Class B (130 °C) or Class F (155 °C)
Duty:		Continuous
<b>CONTACTS</b>		
Contact Material:		Silver alloy gold flashed
Contact Rating AC Amperes (AC1):	A	30 / 20 / 15
Contact Rating AC Voltage:	V	277 / 600
Contact Rating DC Amperes (DC1):	A	30
Contact Rating DC Voltage:	V	28
Horse Power (AC):	HP	1 @ 120
Horse Power (AC):	HP	2 @ 208 - 600
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W
<b>TIMING</b>		
Operate Time:	ms	20
Release Time:	ms	15



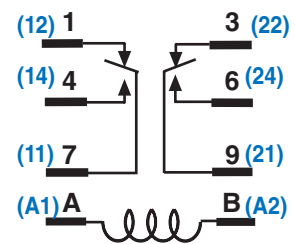
	UNITS	
<b>DIELECTRIC STRENGTH</b>		
Coil to Contacts:	V rms	4000
Across Open Contacts:	V rms	1000
Pole to Pole:	V rms	1000
Contacts to Frame:	V rms	Not applicable
Insulation Resistance:	megohms minimum @VDC	1000 @ 500
<b>TEMPERATURE</b>		
Operating, AC Lower:	°C	-30
Operating, AC Upper:	°C	+60
Operating, DC Lower:	°C	-30
Operating, DC Upper:	°C	+50
Storage, Lower:	°C	-40
Storage, Upper:	°C	+105
<b>LIFE EXPECTANCY</b>		
Electrical @ Rated Load (AC1):	operations	100,000
Mechanical @ no Load :	operations	10,000,000
<b>MISCELLANEOUS</b>		
Operating Position:		Any
Insulation Material:	94V-0	Molded plastic
Enclosure Material:	94V-0	Polycarbonate
Cover Protection Category:	IP	40
Terminals:	Inch (mm)	0.250, 0.09 x 0.032 (6.35, 2.29 x 0.81 )
Weight:	grams	85

# 300 HIGH CURRENT & HIGH VOLTAGE POWER RELAY



## DPDT, UP TO 30 AMPS UP TO 600 VAC OR 150 VDC

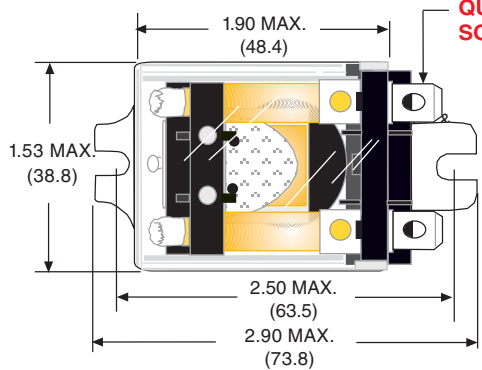
### WIRING DIAGRAM (VIEWED FROM PIN END)



ALTERNATE NEMA OR IEC ( ) NUMBERS VIEWED FROM PIN SIDE

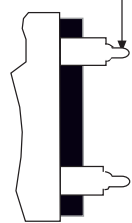
### OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



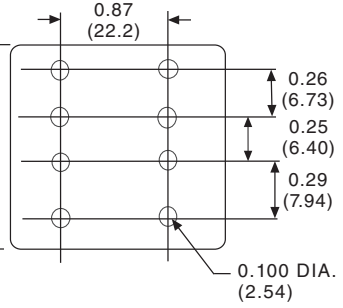
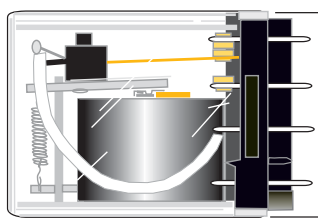
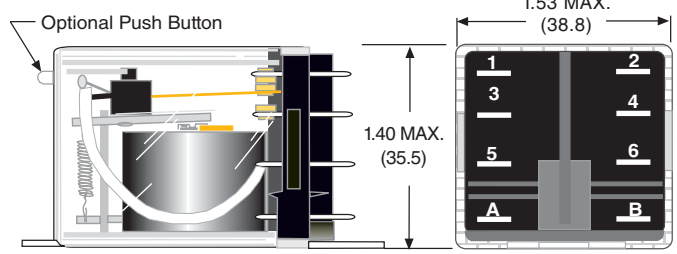
### QUICK CONNECT SOLDER TERMINALS

### PRINTED CIRCUIT TERMINALS



### PRINTED CIRCUIT MOUNTING HOLE LAYOUT (TOP VIEW)

### ENCLOSED FLANGE MOUNT



### ORDERING CODE

**F** **300** **XBX** **C1** **LM** **-24D**

**TEMPERATURE RATING:**  
130°C COIL (CLASS B): **NO CODE**  
155°C COIL (CLASS F): **CODE F**

**CLASS:**

**CONTACT CONFIGURATION:**  
DPDT: **XBX**  
SPDT-DB-DM: **XHX**

**OPTIONAL:**  
MAGNETIC BLOWOUT :**CODE 69**

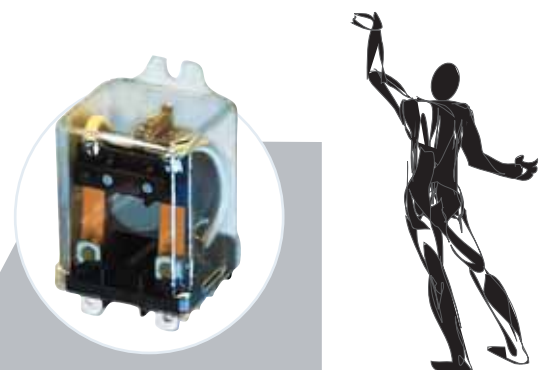
**CONSTRUCTION STYLE:**  
\* ENCLOSED, PLAIN COVER: **CODE C**  
ENCLOSED, FLANGE COVER: **CODE C1**  
ENCLOSED TOP FLANGE MOUNT: **CODE C3**  
ENCLOSED DIN MOUNT: **CODE C4**

**TERMINAL STYLE:**  
QUICK CONNECT SOLDER TERMINALS: **NO CODE**  
PRINTED CIRCUIT TERMINALS: **CODE T**

**OPTIONS:**  
BI - POLAR L.E.D. STATUS LAMP: **CODE L**  
PUSH BUTTON: **CODE M**

**COIL VOLTAGE:**  
6, 12, 24, 120, 240 **ADD "A" FOR AC COILS**  
6, 12, 24, 48, 110 **ADD "D" FOR DC COILS**

\* Note: Code C recommended to be used with printed circuit terminals only.



STANDARD PART NUMBERS	CONTACT CONFIGURATION	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
<b>AC OPERATED, 30 AMP</b>			
300XBXC1-240A	DPDT	220/240 VAC, 50/60Hz	5400 Ω
300XBXC1-120A	DPDT	110/120 VAC, 50/60Hz	1270 Ω
300XBXC1-24A	DPDT	24 VAC, 50/60Hz	54 Ω
300XBXC1-12A	DPDT	12 VAC, 50/60Hz	13.5 Ω
<b>DC OPERATED, 30 AMP</b>			
300XBXC1-110D	DPDT	110/125 VDC	6300 Ω
300XBXC1-24D	DPDT	24 VDC	300 Ω
300XBXC1-12D	DPDT	12 VDC	75 Ω
<b>DC OPERATED, 30 AMP WITH MAGNETIC BLOWOUT</b>			
300XBX69C1-110D	DPDT	110/125 VDC	6300 Ω
300XBX69C1-24D	DPDT	24 VDC	300 Ω
300XBX69C1-12D	DPDT	12 VDC	75 Ω