

UL CONTACT LOAD RATINGS TABLE

CONTACT CONFIGURATION	CURRENT OR HORSE POWER	LOAD VOLTAGE	LOAD VOLTAGE FREQUENCY	TYPE OF LOAD
1 POLE THRU 3 POLES	15 AMP	240 VAC	50/60 Hz	RESISTIVE
	10 AMP	28 VDC	DC	RESISTIVE
	1/3 HP	120 VAC	50/60 Hz	MOTOR
	1/2 HP	240 VAC	50/60 Hz	MOTOR
	3 AMP	600 VAC	50/60 Hz	RESISTIVE



UL Recognized
File No. E13224



168986



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

UL CONTACT LOAD RATINGS TABLE

FOR DC SWITCHING

(WITH OPTIONAL MAGNETIC BLOWOUT: CODE 69)

CONTACT CONFIGURATION	CURRENT OR HORSE POWER	LOAD VOLTAGE	TYPE OF LOAD
DPDT	3 AMP	150 VDC	RESISTIVE
DPST - NO	5 AMP	150 VDC	RESISTIVE
SPST - NO (DM)	10 AMP	150 VDC	RESISTIVE
SPDT (DB and DM)	10 AMP	150 VDC	RESISTIVE

MANUFACTURED
UNDER
ISO 9002
& QS 9000



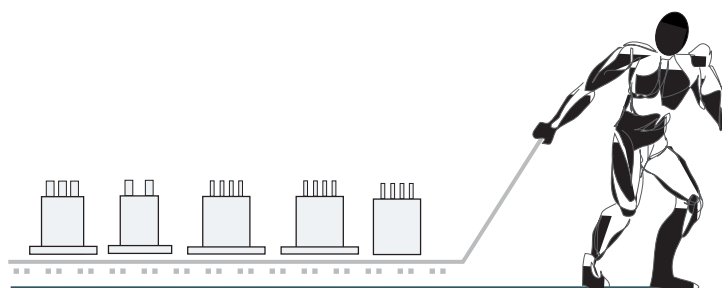
LISTED 367G
IND. CONT. EQ.

WHEN USED WITH
SOCKETS 70-463-1

CURRENT LIMITED
TO RATING OF
RELAY OR SOCKET
WHICHEVER IS LESS

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	10
Dropout Voltage DC:≥	% of nominal	10
Maximum Voltage:	% of nominal	110
Resistance:	% ±	10
Coil Power AC (60 Hz):	VA	2.75
Coil Power DC:	W	2
Insulation System Per UL Standard 1446:		Class B (130 °C)
Duty:		Continuous
CONTACTS		
Contact Material:		Silver alloy gold flashed
Contact Rating AC Amperes (AC1):	A	15
Contact Rating AC Voltage:	V	240
Contact Rating DC Amperes (DC1):	A	10
Contact Rating DC Voltage:	V	28
Horse Power (AC):	HP	1/3 @ 120 V
Horse Power (AC):	V	1/2 @ 240 V
Minimum Recommended Load:	ma	100 @ 5 VDC or 0.5 W
DIELECTRIC STRENGTH		
Coil to Contacts:	V rms	2000
Across Open Contacts:	V rms	500
Pole to Pole:	V rms	2000
Contacts to Frame:	V rms	Not applicable
Insulation Resistance:	megohms minimum @VDC	1000 @ 500



	UNITS	
TEMPERATURE		
Operating, AC Lower:	°C	-30
Operating, AC Upper:	°C	+60
Operating, DC Lower:	°C	-30
Operating, DC Upper:	°C	+50
Storage, Lower:	°C	-30
Storage, Upper:	°C	+100
LIFE EXPECTANCY		
Electrical @ Rated Load (AC1):	operations	100,000
Mechanical @ no Load :	operations	10,000,000
MISCELLANEOUS		
Operating Position:		Any
Insulation Material:	94V-0	Molded plastic
Enclosure Material:	94V-0	Polycarbonate
Cover Protection Category:	IP	40
Terminals:	Inch (mm)	0.187, 0.062 x 0.020 (4.74, 1.57 x 0.508)
Weight:	grams	88

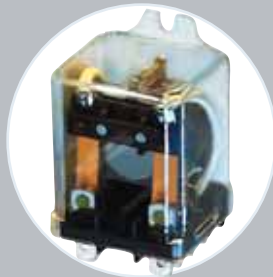
A283 PLUG-IN & FLANGE MOUNT RELAYS



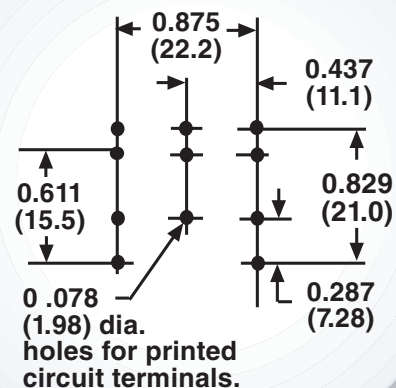
PLUG-IN



FLANGE MOUNT



RECOMMENDED PRINTED CIRCUIT LAYOUT (TOP VIEW)



ORDERING CODE

A283

XCX

C1

M-

240A

CLASS:

CONTACT CONFIGURATION:

SPDT: **XAX**
DPDT: **XBX**
DPST-NO: **BXX**
3PDT: **XCX**
SPST -NO-DM: **HXX**
SPDT -DB and DM: **HHX**

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**

OPTIONAL PRINTED CIRCUIT TERMINAL



OPTIONAL TOP FLANGE COVER



OPTIONAL DIN COVER



* Note: Code C recommended to be used with printed circuit terminals or Plug-in applications only.

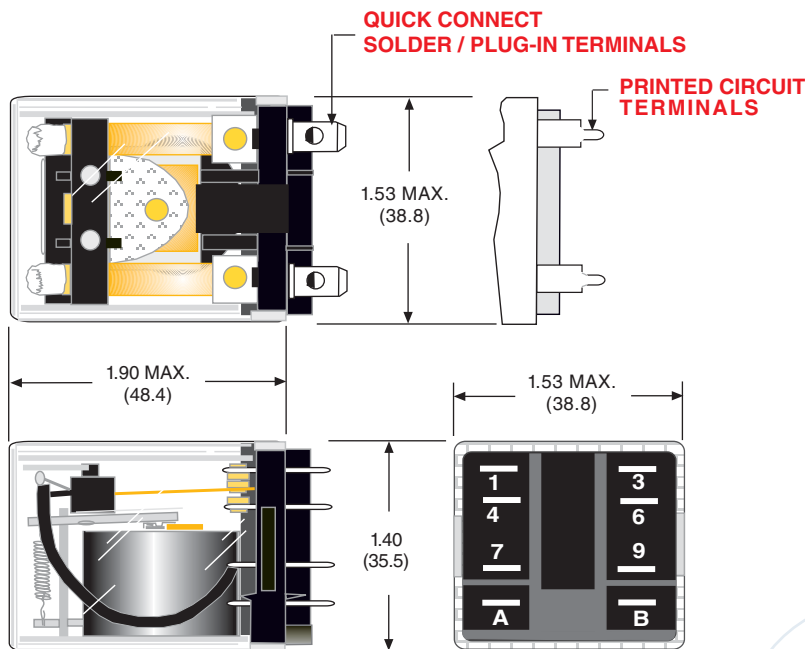
A283 PLUG-IN RELAY FOR DC SWITCHING



DPDT, SPST-NO-DM 3, 5 & 10 AMPS 150 VDC SWITCHING

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



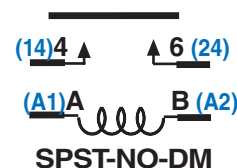
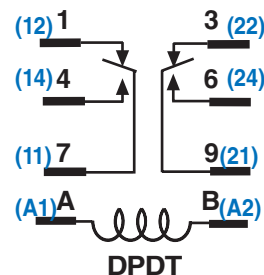
BLOWOUT MAGNET STANDARD FEATURE

THE BLOWOUT MAGNET STYLES HAVE
THE SAME LOAD SPECIFICATIONS AS
THE A283 ENCLOSED PLUG-IN RELAYS,
PLUS THE ADDITIONAL DC LOAD RATINGS.
SEE A283 GENERAL SPECIFICATIONS.



SEE CLASS 788 FOR
PART NUMBERS WITH
L.E.D. STATUS LAMP
AND PUSH BUTTON

WIRING DIAGRAM (VIEWED FROM PIN END)



ALTERNATE NEMA
OR IEC () NUMBERS
VIEWED FROM
PIN SIDE



Mating Sockets
70-463-1: SCREW/DIN
70-124-1: SOLDER
70-178-1, 70-178-2: PRINTED CIRCUIT
70-788EL/SL-1, 70-124-2: QUICK CONNECT
See section 7

STANDARD PART NUMBERS	CONTACT CONFIGU- RATION	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
AC OPERATED WITH BLOWOUT MAGNET, 3 AMP			
A283XBX69C-120A	DPDT	110/120 VAC, 50/60Hz	2250 Ω
DC OPERATED WITH BLOWOUT MAGNET, 3 AMP			
A283XBX69C-12D	DPDT	12 VDC	120 Ω
A283XBX69C-24D	DPDT	24 VDC	472 Ω
A283XBX69C-110D	DPDT	110/125 VDC	10,000 Ω
AC OPERATED WITH BLOWOUT MAGNET, 10 AMP			
A283HXX69C-120A	SPST-NO (DM)	110/120 VAC, 50/60Hz	2250 Ω
DC OPERATED WITH BLOWOUT MAGNET, 10 AMP			
A283HXX69C-48D	SPDT-NO (DB-DM)	48 VDC	1800 Ω
DC OPERATED WITH BLOWOUT MAGNET, 5 AMP			
A283BXX69C-24D	DPST-NO	24 VDC	472 Ω
A283BXX69C-48D	DPST-NO	48 VDC	1800 Ω
DC OPERATED WITH BLOWOUT MAGNET, 10 AMP			
A283HXX69C-12D	SPST-NO (DM)	12 VDC	120 Ω
A283HXX69C-24D	SPST-NO (DM)	24 VDC	472 Ω
A283HXX69C-48D	SPST-NO (DM)	48 VDC	1800 Ω
A283HXX69C-110D	SPST-NO (DM)	110/125 VDC	10,000 Ω

RETROFITS POTTER & BRUMFIELD KUP.
SEE END OF SECTION 1 FOR CROSS REFERENCE