REV
B

GENERAL PURPOSE 320VDC, 5A VACUUM RELAY

Features

Physical:
- Hermetically Sealed: arc contained
- Maintenance free

Environmental:
- Temperature range -35°C to 65°C
- 25G Shock

Power Switching:
- 320 Volts

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone (805) 684-4560 Fax (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com/

R:\salesdrw\IN_PROGRESS\jmcalli\pd series\PD005C_sales_dwg_B.doc

TITLE
GENERAL PURPOSE 320VDC, 5A VACUUM RELAY

PREP. BY	Tanner	94.4.1	DWG NO.		
CHKD. BY			**PD5C**		
			CAGE CODE	SCALE	SHEET
ENG APRVL	Kohlmeier	94.4.19	18741		1 of 7

REV. **B**

General Specifications

Physical Data	**Units**	
Contact Arrangement		SPST-NO
Form		C

Environmental Data		
Shock, 11ms ½ sine (operating)	g	25
Vibration, Sinusoidal (55-2000 Hz)	g	5
Operating Temperature Range	°C	-35to +65
Operational Altitude, Maximum	Ft.	15000

Electrical Data		
Rated Operating Voltage	Vdc	320
Rated Resistive Load @250 Vdc	Amps	5
Load Life, Minimum	Cycles	10000
Overload, Switched	Adc	10
Continuous Current Carry, Maximum	Adc	PD5C235, PD5C335, PD5C535: 5 PD5C245, PD5C345, PD5C545: 10
Dielectric Strength @ Sea Level Coil to Power Terminals All Other Points	 Vrms Vrms	 1800 2000
Dielectric Strength @ 15000 ft. all points	Vrms	500
Insulation Resistance @ 500 Vdc, Minimum Before Life After Life	 MΩ MΩ	 100 50
Contact Resistance, Maximum	Ω	0.030

Mechanical Data	Units	
Operate Time, Maximum	ms	10
Release Time, Maximum	ms	10

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

THIRD ANGLE PROJECTION

THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE	SCALE	SHEET
18741		2 of 7

Coil Data

REV. **B**

	Units			
Coil Voltage, Nominal/Maximum	Vdc	12/14	24/28	125/130
Pickup Voltage, Maximum	Vdc	8	20	80
Dropout Voltage	Vdc	.3-6	.7-12	5-55
Coil Resistance (± 10% @25°C)	Ω	70	290	4700

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

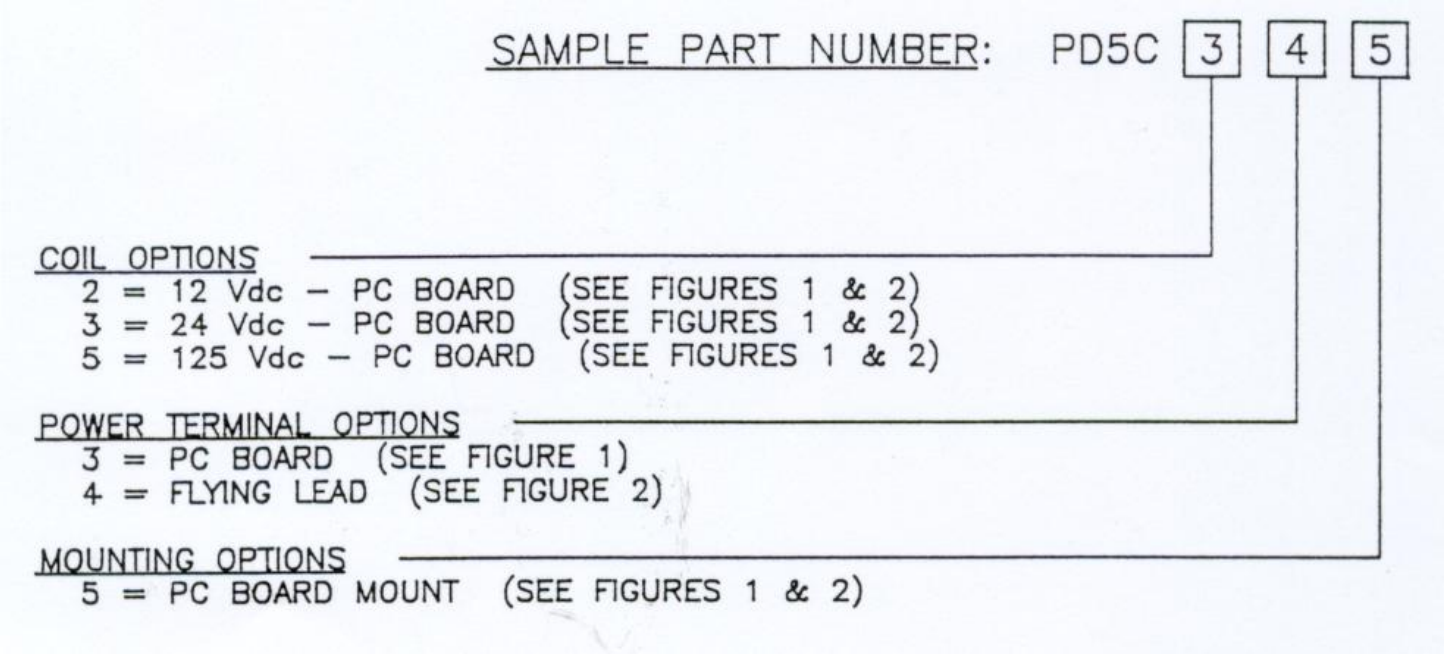
THIRD ANGLE PROJECTION

THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE 18741 | SCALE | SHEET 3 of 7

Part Number Selection

REV. **B**



CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

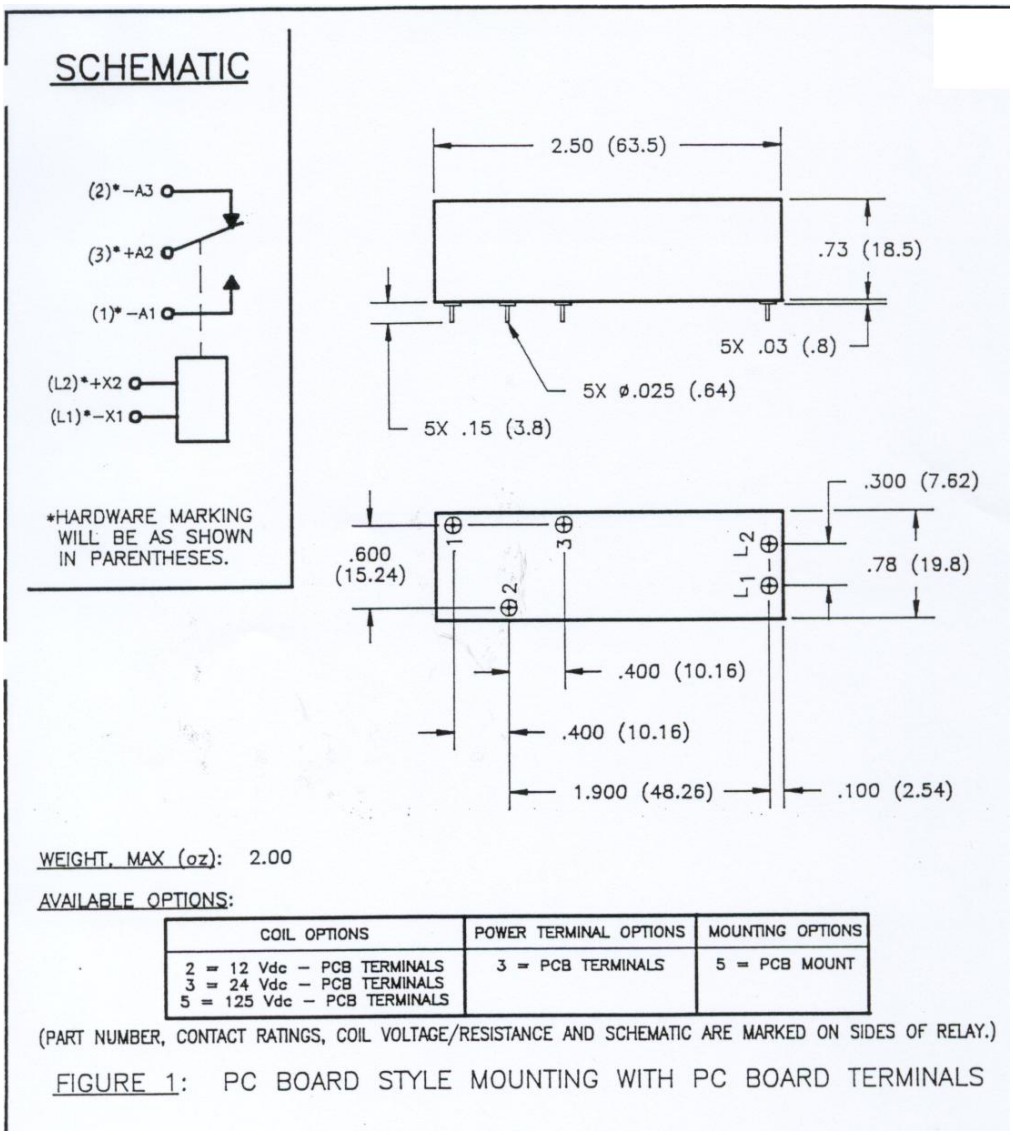
THIRD ANGLE PROJECTION

THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE	SCALE	SHEET
18741		4 of 7

Part Drawing

REV. **B**



WEIGHT, MAX (oz): 2.00

AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
2 = 12 Vdc – PCB TERMINALS 3 = 24 Vdc – PCB TERMINALS 5 = 125 Vdc – PCB TERMINALS	3 = PCB TERMINALS	5 = PCB MOUNT

(PART NUMBER, CONTACT RATINGS, COIL VOLTAGE/RESISTANCE AND SCHEMATIC ARE MARKED ON SIDES OF RELAY.)

FIGURE 1: PC BOARD STYLE MOUNTING WITH PC BOARD TERMINALS

Dimensions in Inches
(Dimensions in Parentheses are in Millimeters)
Tolerances Accepted as Noted
.xx = ± .03
.xxx = ± .010
∠ x° = ± 2°
DO NOT SCALE DWG.

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

THIRD ANGLE PROJECTION

THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE	SCALE	SHEET
18741		5 of 7

Part Drawing

REV. **B**

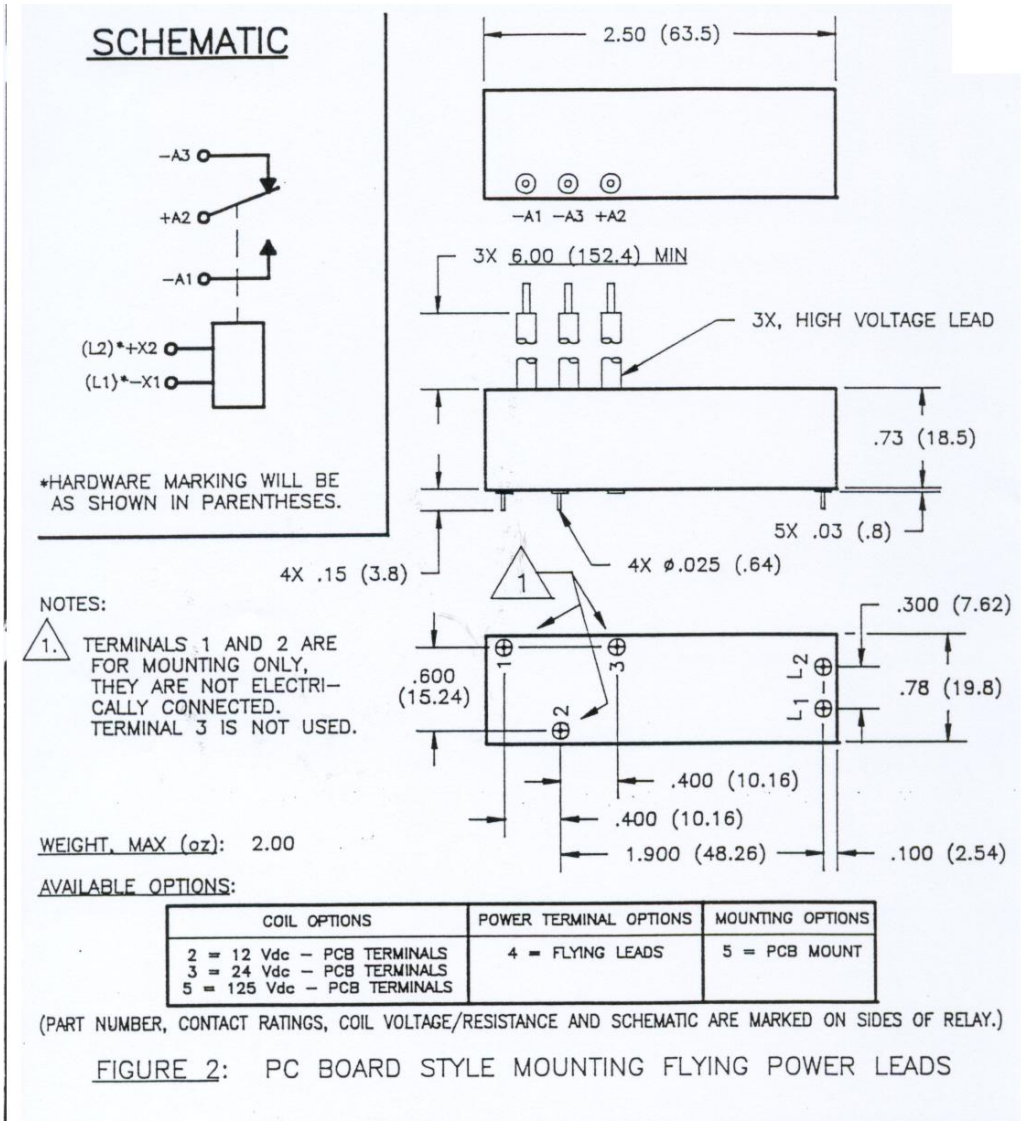


FIGURE 2: PC BOARD STYLE MOUNTING FLYING POWER LEADS

Dimensions in Inches
(Dimensions in Parentheses are in Millimeters)
Tolerances Accepted as Noted
.xx = ± .03
.xxx = ± .010
∠x° = ± 2°
DO NOT SCALE DWG.

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

THIRD ANGLE PROJECTION

THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE	SCALE	SHEET
18741		6 of 7

REV.
B

Revisions

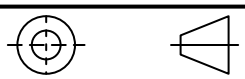
REV.	DESCRIPTION	DATE	APP.
A	Initial Concept	94/04/19	PWK
B	New Template DCO 11856	99/12/14	PWK

CII Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
Phone: (805) 684-4560 Fax: (805) 684-9679
E-Mail: info@ciitech.com
Internet: http://www.ciitech.com

PD5C

THIRD ANGLE PROJECTION



THIS DRAWING PREPARED IN ACCORDANCE WITH ANSI/ASME Y14.5M-1982

CAGE CODE	SCALE	SHEET
18741		7 of 7