

## REVISIONS

REV.	ECO	DESCRIPTION	DATE	APPROVED
A	-	INITIAL DRAWN	09JUL2020	DM

### Features

#### Physical:

- Hermetically Sealed: arc contained
- Maintenance free

#### Environmental:

- Temperature range -40°C to 85°C
- 30G Shock

#### Power Switching:

- 320 Volts
- 600A Carry
- 3300A maximum interrupt

### Schematic



### Ordering Information

Sample Part Number ► **PD 150 X A 5 7**

**Series:** \_\_\_\_\_

**Contact Form:** \_\_\_\_\_  
X = SPST-NO, Double Make

**Coil Voltage:** \_\_\_\_\_  
A = 12 Vdc, Stud Terminals  
B = 24 Vdc, Stud Terminals  
C = 125 Vdc, Stud Terminals

**Power Terminals:** \_\_\_\_\_  
5 = Stud Terminals

**Mounting:** \_\_\_\_\_  
7 = Panel Mount, Captive Bolts

## General Specifications

### Physical Data

Contact Arrangement	Units	SPST-NO
Form		X
Dimensions (L-W-H)	in.	2.5x2.5x4.6
Weight	oz.	26.5

### Environmental Data

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

### Electrical Data

Rated Operating Voltage	Vdc	250
Load Polarity		Bidirectional
Rated Resistive Load	Amps	150
Resistive Load Life	Cycles	10000
Rated Overload Current		
Beginning of Life (0 to 5k cycles)	Amps	500
End of Life (5k to 10k cycles)	Amps	400
Arc Duration, Nominal/Maximum	mSec	2/15
Overload Life	Cycles	10
Continuous Current Carry	Amps	150
Contact Resistance, Maximum	mΩ	1
Maximum Terminal Temperature	°C	200
Insulation Resistance @ 500 Vdc, Minimum	MΩ	100
Dielectric Strength @ Sea Level		
Coil to Power Terminals	Vrms	1800
All Other Points	Vrms	2000

1. Resistive load includes inductance L = 25uH.
2. For 600A carry use three 00 cables (203 mm<sup>2</sup>).
3. Testing is limited at this time. Consult factory for official ratings.
4. Operate Time, Release Time, and Contact Bounce are all measured with the relay stabilized at 25 C and operated with nominal coil voltage. Operate Time includes bounce. For normally closed relays, operate time refers to opening of the relay (i.e. operating the coil) and release time to closing the relay



TE CONNECTIVITY  
CARPINTERIA, CA 93013

TITLE

PD150X-SERIES

TE P.N.

1-1618013-4

DWG NO.

PD150X

DS DATA SHEET

CAGE CODE  
-

SCALE  
NONE

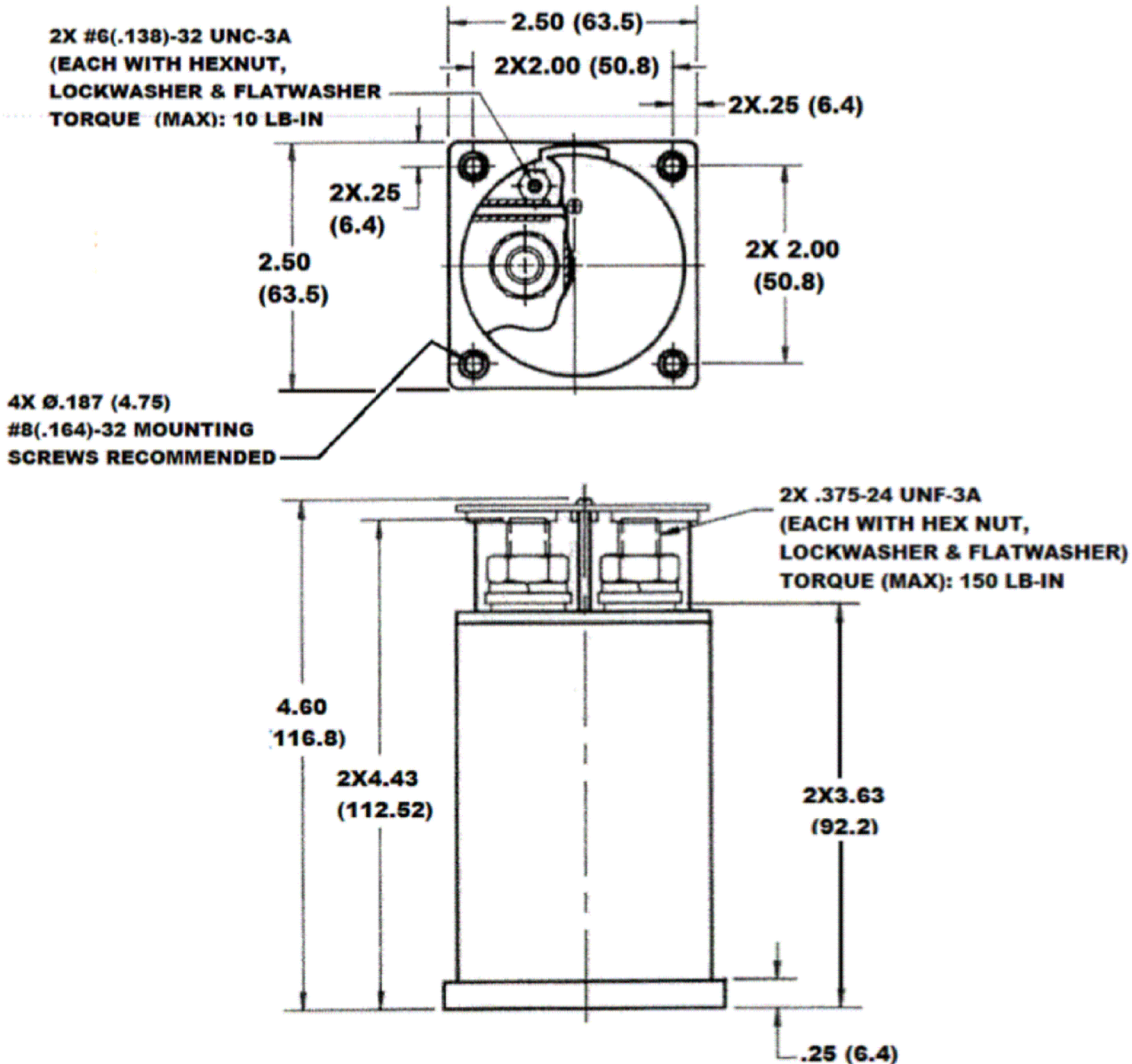
SHEET  
1 OF 2

REV  
A

### Coil & Electronics Data

	Units	PD150XA57	PD150XB57	PD150XC57
Coil Voltage, Nominal/Maximum	Vdc	12/12.5	24/28	125/145
Coil Resistance ( $\pm 10\%$ @25°C)	$\Omega$	9.6	52	960
Pickup Voltage, Maximum				
Cont. Current Test, High Temp. & Alt.	Vdc	9.9	22	115
High Temperature, Hot Coil	Vdc	9.5	21	111
High Temperature, Cold Coil	Vdc	8.6	19	86
Room Temperature, Cold Coil	Vdc	7.1	16.5	71
Dropout Voltage, Minimum				
Over Temperature Range	Vdc	0.5	1.0	5.0
@ 25 °C	Vdc	0.65	1.3	6.5
Hold Voltage, Minimum				
Over Temperature Range	Vdc	5	10	52
@ 25°C	Vdc	4.3	8.7	45
Contact Bounce, Maximum	mSec	8	8	8
Operate Time, Maximum	mSec	35	40	35
Release Time, Maximum	mSec	10	10	10

### Part Drawing



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

ALL DIMENSIONS ARE IN INCHES(MM)



TE CONNECTIVITY  
 CARPINTERIA, CA 93013

TITLE

PD150X-SERIES

TE P.N.

1-1618013-4

DWG NO.

PD150X

DS DATA SHEET

CAGE CODE  
 -

SCALE  
 NONE

SHEET  
 2 OF 2

REV  
 A