

| LEJ & LEJA SERIES

HYDRAULIC-MAGNETIC CIRCUIT BREAKERS

The LEJ/LEJA series circuit breaker meets the evolving demand for the high performance protection of critical data center and telecommunications applications requiring up to 277VAC per pole, UL 489 listing in the smallest case size currently available in the marketplace. Previously included under the 217 family of circuit breakers, this category includes the LEJ/LEJH and LUJ/LUJH series. The platform is based on the highly successful and field proven LEG/LEGA designs while incorporating state-of-the-art arc quenching technologies and offering voltage ratings that are well suited for global applications that require 208VAC through 277VAC ratings for increased power efficiency.

Typical applications include power distribution units (PDUs) used in data center enclosures, telecom AC power supplies and a variety of Industrial applications benefiting from the higher power density. Like the LEG/LEGA product family, the LEJ/LEJA series offers a variety of features including different terminations and actuators to meet most any requirements.



Features

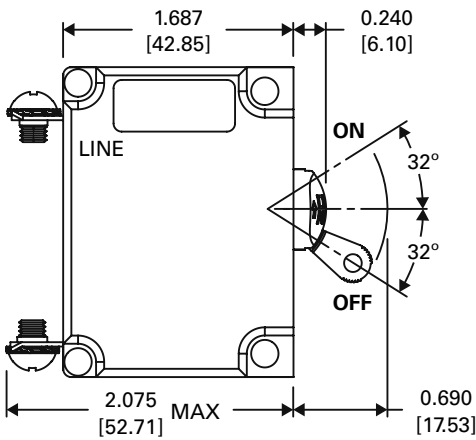
- Up to 2 poles, with ratings up to 20A/277VAC or 30A/240VAC per pole
- UL 489 listed and TÜV approvals available
- Up to 10,000AIC short circuit amperage rating
- Low Depth "A" option provides a 31% lower depth compared to standard LEJ product
- Maintains the high performance characteristics, reliability, panel cut out and mounting dimensions of LEG/LEGA products

SPECIFICATIONS

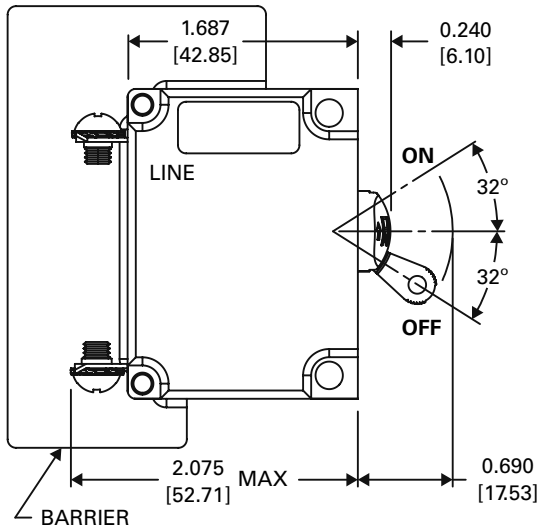
Type	Decision	UL-489				TUV (PER EN60947-2)						
	Detail	Poles	Max V	Amps	AIC	Poles	Max V	Amps	Ics	Icu	Isu	lit
LEJ	None	1	240	2-20	5000	1	240	2-20	3000	10000	N/A	N/A
	"R" In Sixth				10000							
	None	2		2-30	5000	2		2-30				
	"R" In Sixth				10000							
LEJV	None	1	240	2-20	5000	1	240	2-20	3000	7500		
	"R" In Sixth				10000					10000		
	None	2		2-30	5000	2		2-30		10000		
	"R" In Sixth				10000							
LEJV	"E" In Sixth	1-2	277	2-20	10000	1-2	277	2-20	2500	10000		
LUJ	None	1	240	2-20	5000							
	"R" In Sixth				10000							
	None	2		2-30	5000							
	"R" In Sixth				10000							
LUJV	"E" In Sixth	1-2	277	2-20	10000							

CONFIGURATIONS: LEJ TOGGLE HANDLE

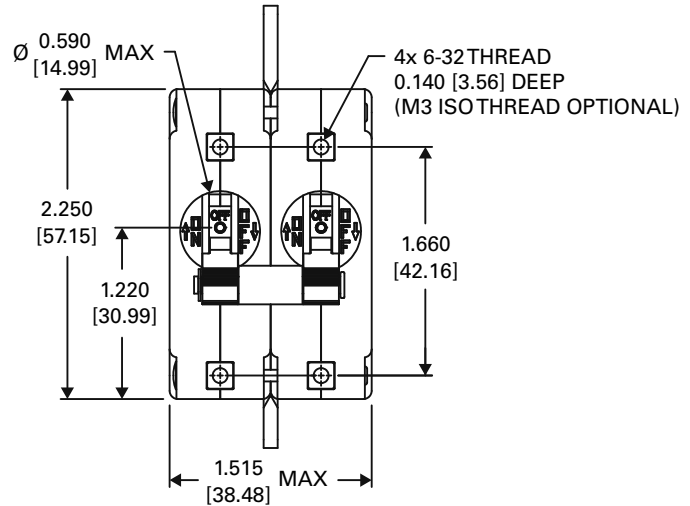
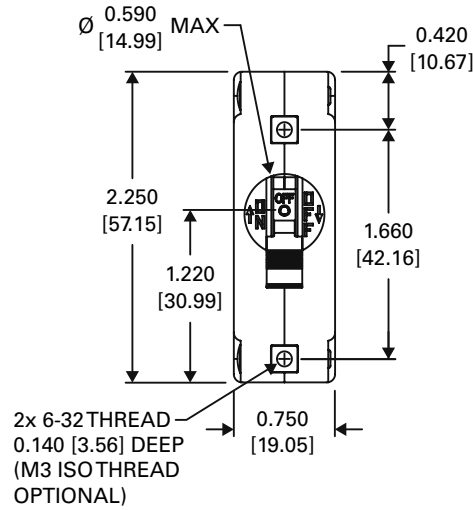
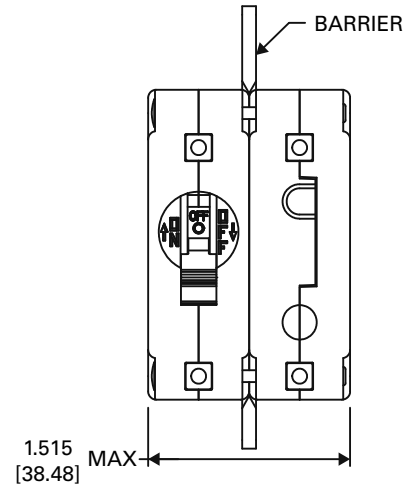
SINGLE POLE



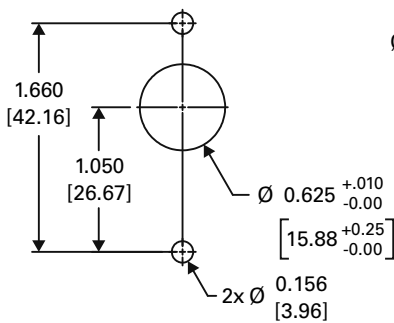
TWO POLE, 2 HANDLE



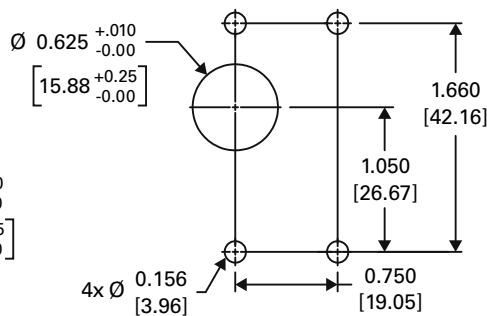
TWO POLE, 1 HANDLE



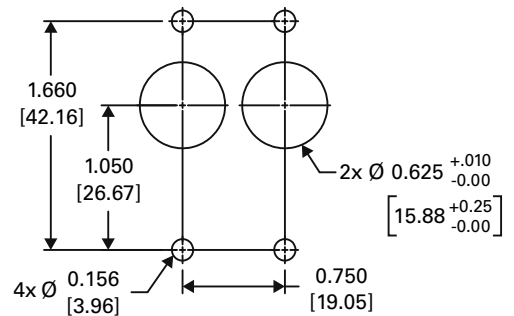
PANEL MOUNT CUTOUT - 1 POLE



PANEL MOUNT CUTOUT - 2 POLE, 1 HANDLE



PANEL MOUNT CUTOUT - 2 POLE, 2 HANDLE

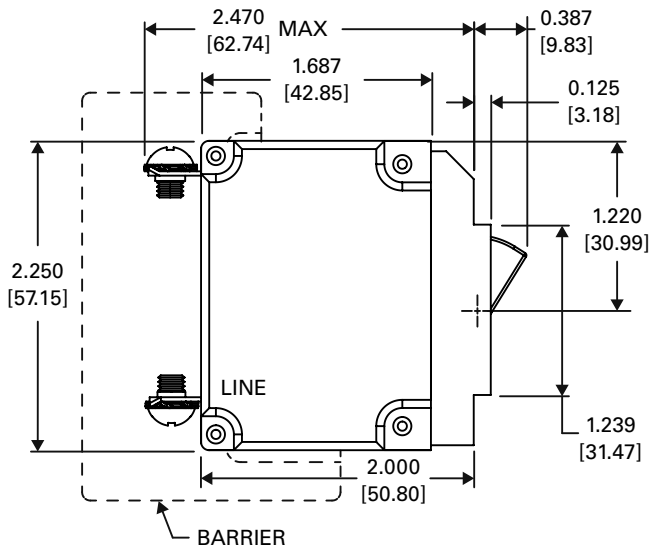


NOTES:

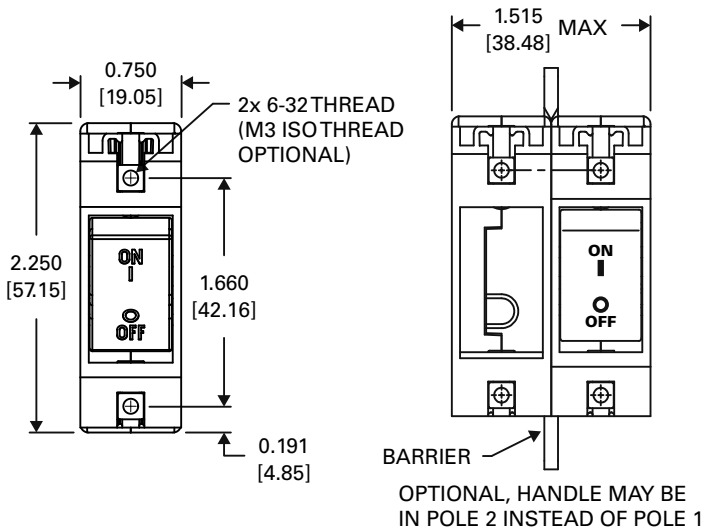
1. All mounting inserts shall be utilized when panel mounting circuit breakers. Panel mounting screws shall have recommended torque applied: 6/32 mounting inserts 6 - 8 inch pounds. M3 mounting inserts 4 - 5 inch pounds.
2. Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
3. Mounting detail tolerance: ± 0.005 [0.13] unless noted.

● CONFIGURATIONS: LEJBX ROCKER HANDLE

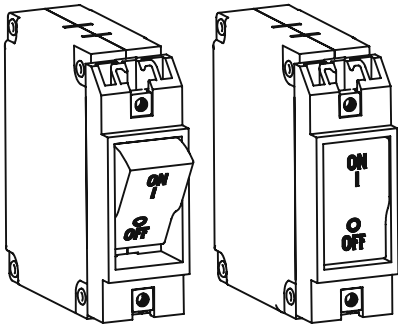
SINGLE POLE



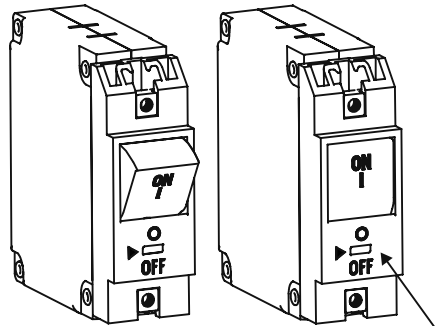
TWO POLE



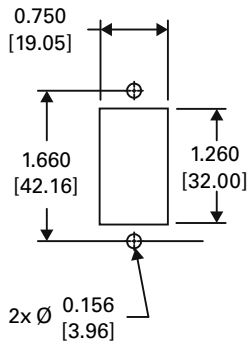
BX HANDLE WITHOUT GUARD



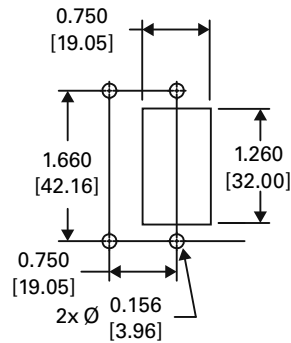
GUARD (LIMITED ACCESS ACTUATE-OFF)



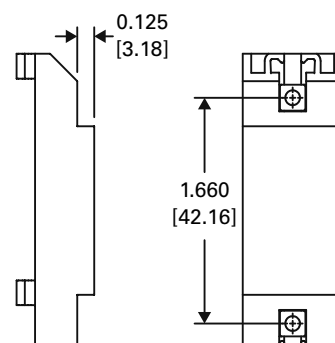
PANEL MOUNT CUTOUT (1 POLE)



PANEL MOUNT CUTOUT (2 POLE)

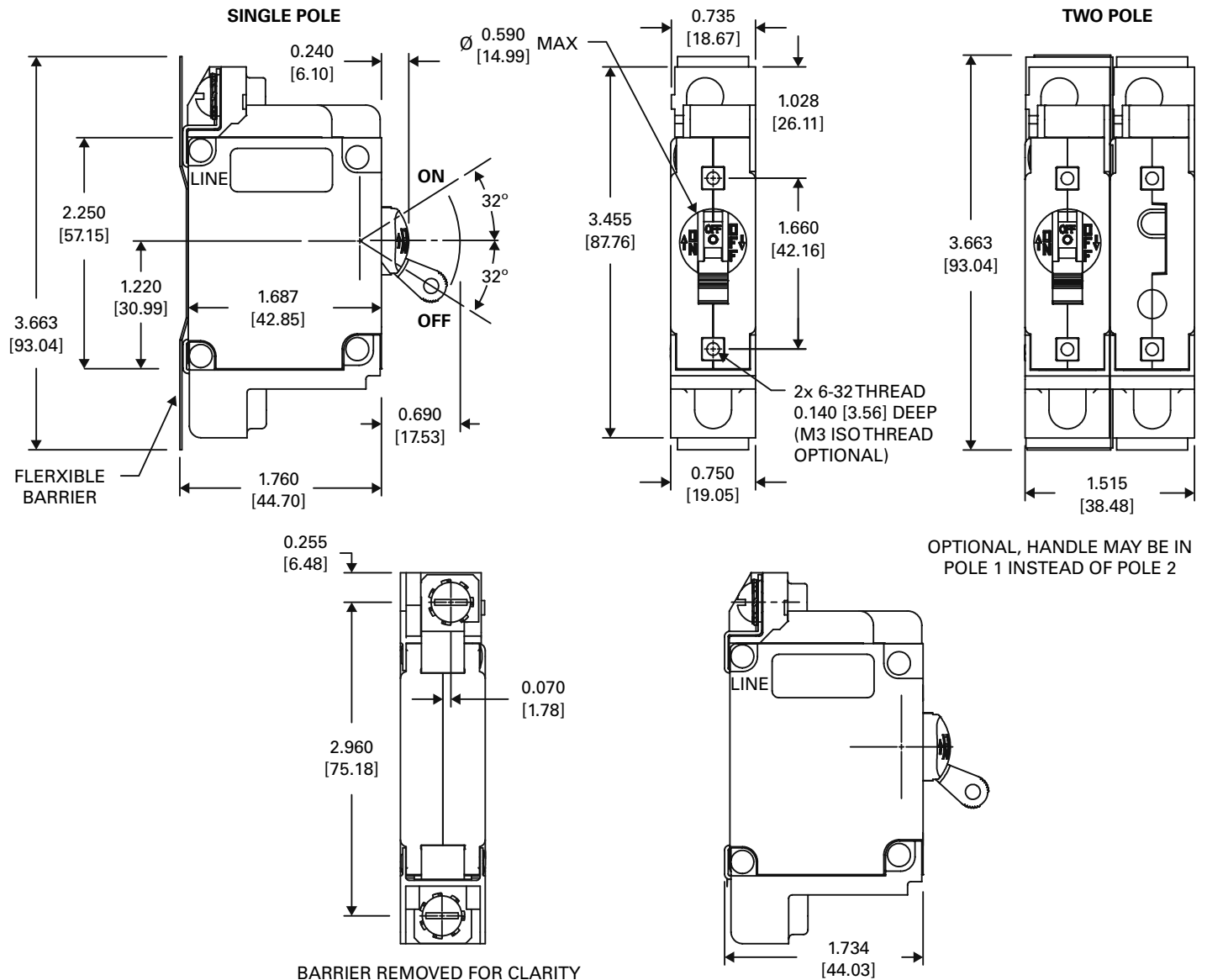


PANEL PLUG (CONSULT FACTORY FOR AVAILABILITY)

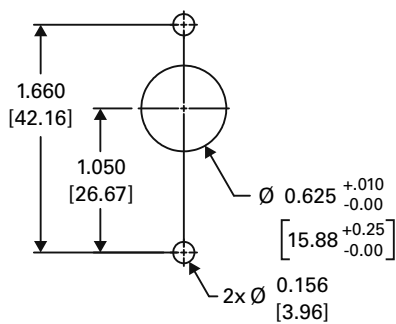


- P/N: 121-710-2450**
6-32 THD. (BLACK)
- P/N: 121-710-2451**
M3 THD. (BLACK)
- P/N: 121-450-3000**
6-32 THD. (BLACK)
- P/N: 121-450-3001**
M3 THD. (BLACK)

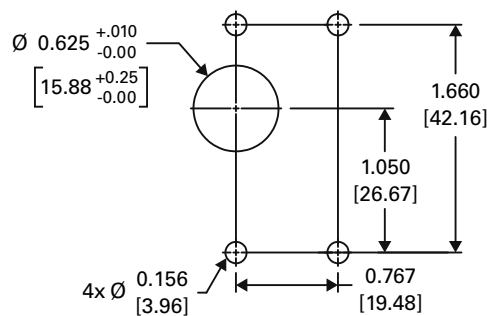
CONFIGURATIONS: LEJA, TOGGLE HANDLE



PANEL MOUNT CUTOUT - 1 POLE



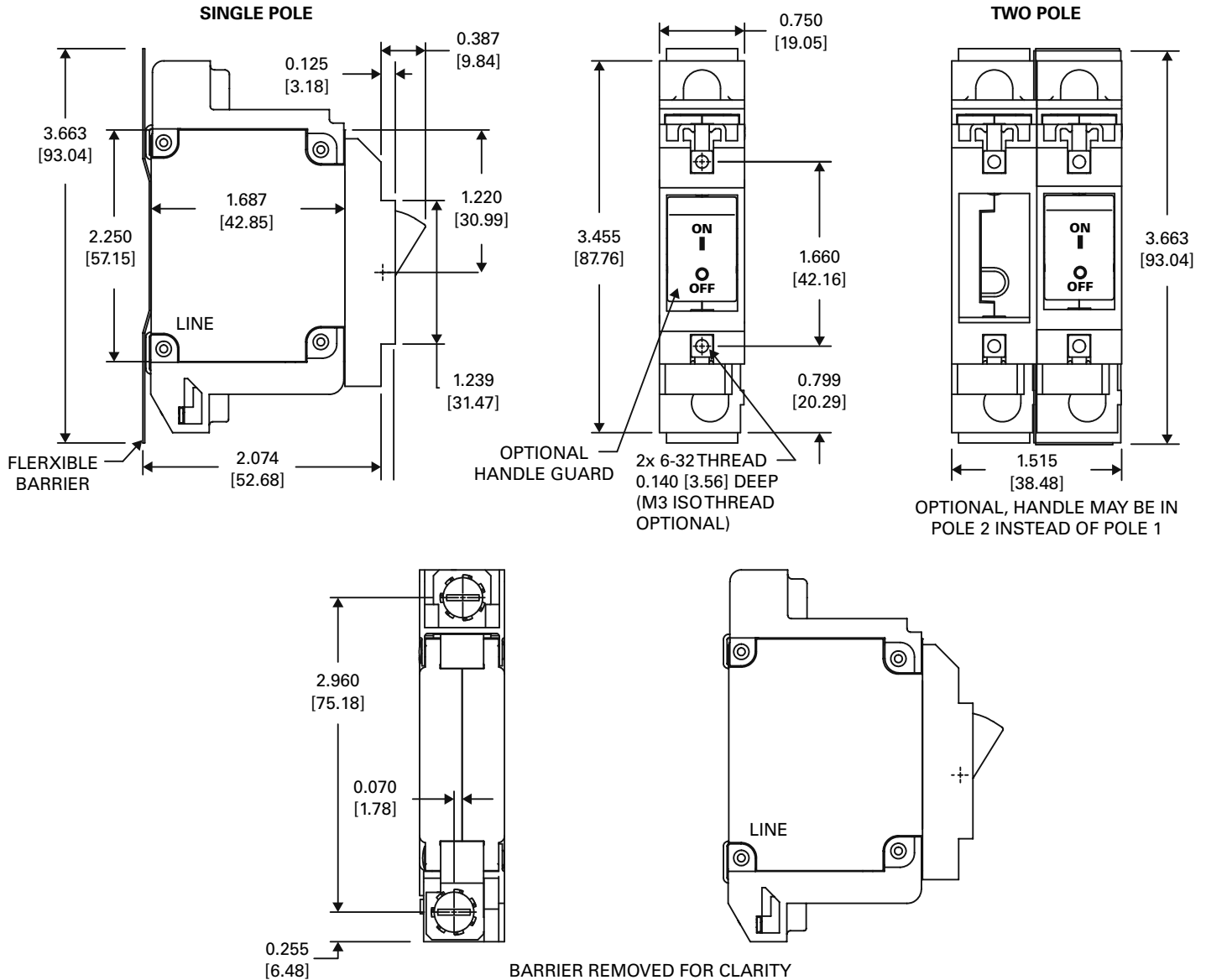
PANEL MOUNT CUTOUT - 2 POLE, 1 HANDLE



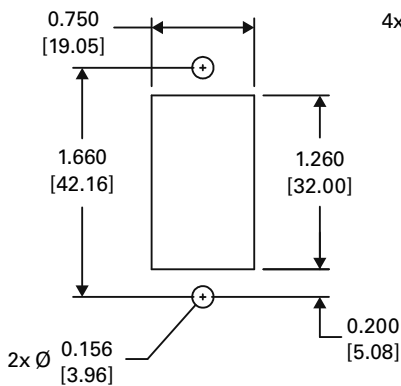
Notes:

1. All mounting inserts shall be utilized when panel mounting circuit breakers. Panel mounting screws shall have recommended torque applied: 6/32 mounting inserts 6 - 8 inch pounds. M3 mounting inserts 4 - 5 inch pounds.
2. Panel mounting screws shall not extend beyond back of mounting panel more than specied mounting insert depth.
3. Mounting detail tolerance: ± 0.005 [0.13] unless noted.

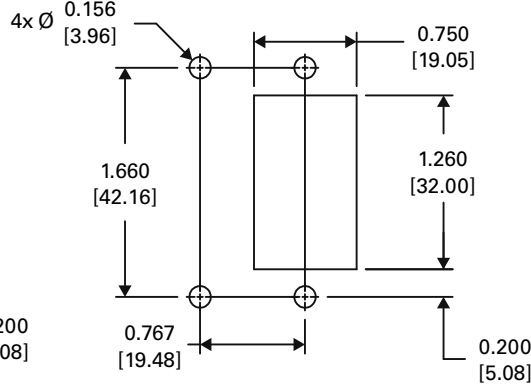
● CONFIGURATIONS: LEJBXA ROCKER HANDLE



PANEL MOUNT CUTOUT - 1 POLE



PANEL MOUNT CUTOUT - 2 POLE

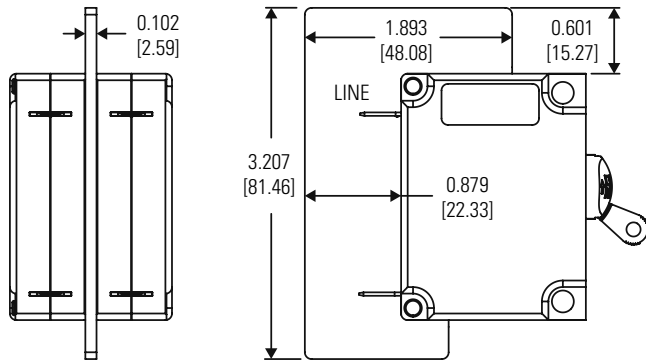


Notes:

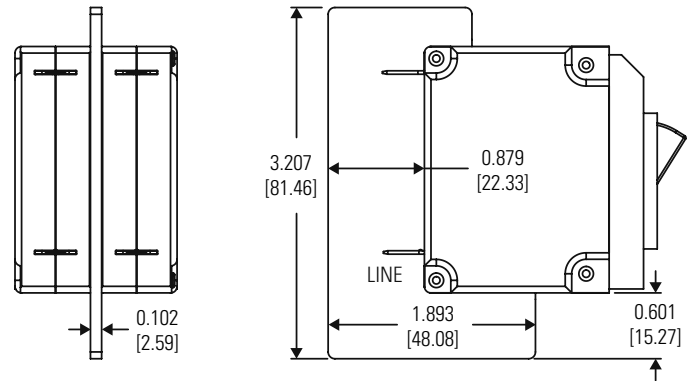
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2. Panel mounting screws shall not extend beyond back of mounting panel more than specied mounting insert depth.
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BARRIER OPTIONS FOR MULTI-POLE UNITS

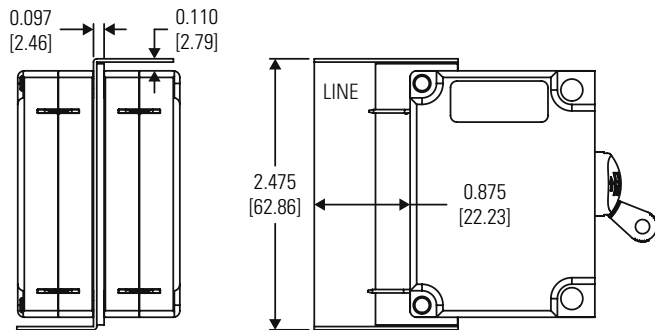
STANDARD BARRIER - TOGGLE HANDLE



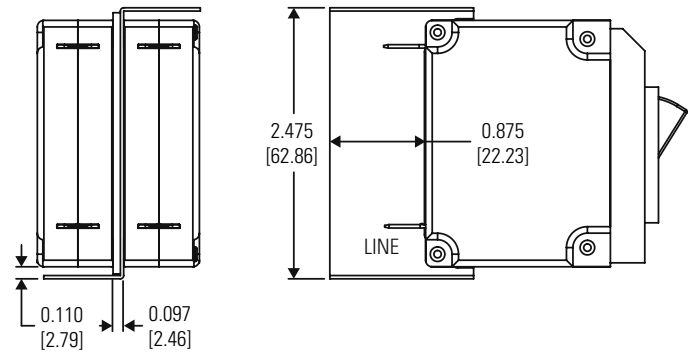
STANDARD BARRIER - BX HANDLE



OPTIONAL (-Z) BARRIER - TOGGLE HANDLE

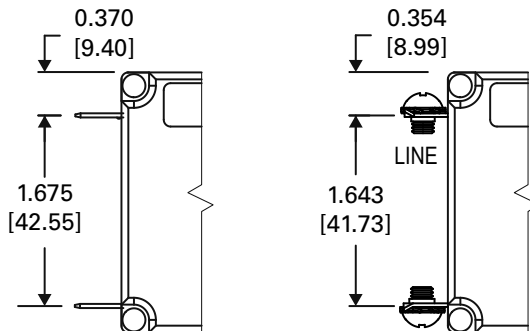


OPTIONAL (-Z) BARRIER - BX HANDLE

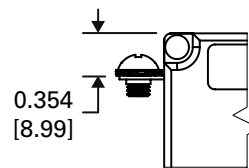


TERMINAL OPTIONS

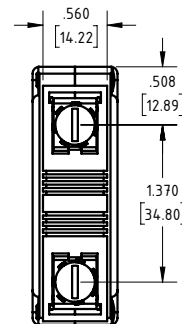
STANDARD - QUICK CONNECT & SCREW TERMINALS



OPTIONAL - FLAT BUS CONNECT SCREW TERMINAL



OPTIONAL - LOW PROFILE SCREW TERMINAL

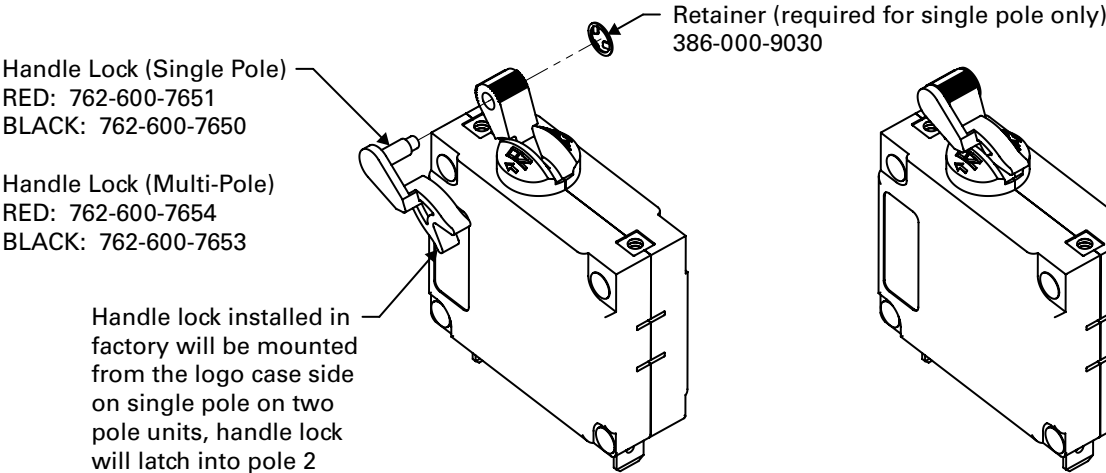


NOTES:

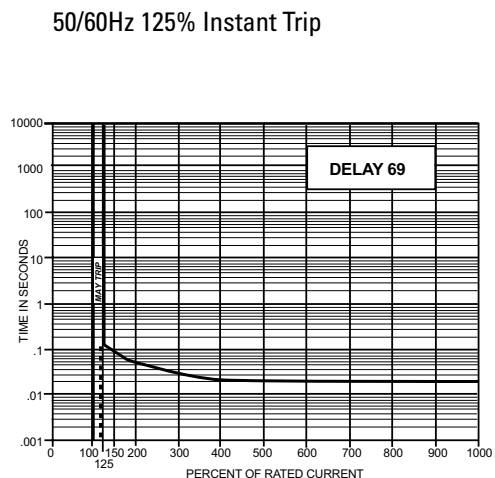
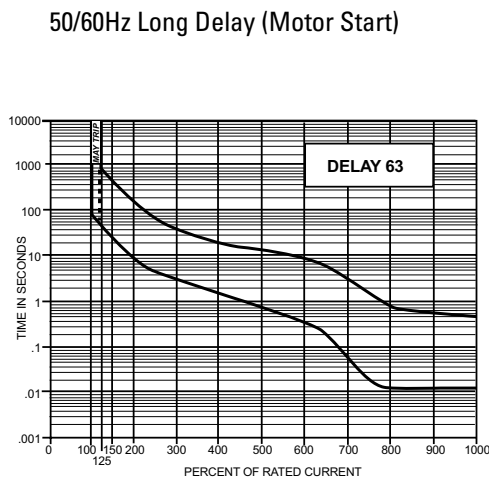
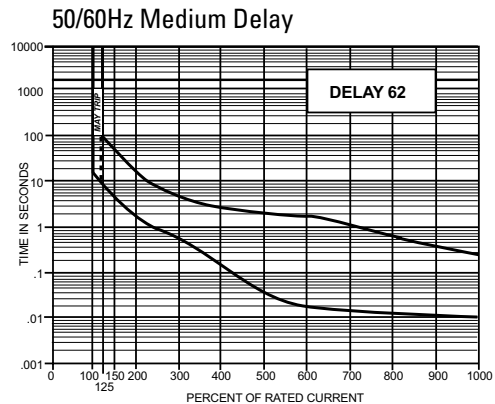
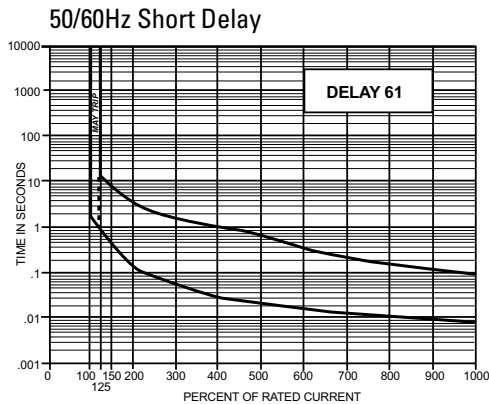
1. Terminals: Quick Connect = 0.250 [6.35] wide x 0.031 [0.79] thick
Screw = 10-32 or M5 x 0.8
TÜV approval with screw terminals include external tooth lockwashers
2. 10000 AIC available only with screw terminals

OPTIONAL HANDLE LOCK FOR TOGGLE HANDLE

A handle lock option is available to prevent accidental actuation of the handle. The handle lock may be used in the ON or OFF position. This option is available pre-assembled or seperately. Consult factory for ordering information.



DELAY CURVES



PERCENTAGE OF RATED CURRENT VS TRIP TIME IN SECONDS

Percentage of Rated Current vs Trip Time in Seconds at +25°C (Vertical Mount)								
Delay	100%	125%	150%	200%	400%	600%	800%	1000%
61	No Trip	.700 to 12	35 to 7.0	.130 to 3.0	030 to 1	.015 to .3	.01 to .15	.008 to .1
62	No Trip	10 to 120	6 to 60	2 to 25	.2 to 3.0	.015 to 2	.015 to .8	.01 to .25
63	No Trip	50 to 700	30 to 400	10 to 150	1.5 to 20	.015 to 10	.013 to .85	.013 to .5
69	No Trip	0.120 max	0.100 max	0.050 max	0.022 max	0.017 max	0.017 max	0.017 max

Inrush Pulse Tolerance	
Delay	Pulse Tolerance
61, 62, 63	10 times rated current (approx)

The table above provides a comparison of inrush pulse tolerance for each of the 50/60Hz delays. Pulse tolerance is defined as a single pulse of half sine wave peak current amplitude of 8 milliseconds duration that will not trip the circuit breaker. Consult Sensata Technologies for further assistance.

Typical Resistance / Impedance	
Current Ratings (Amps)	Impedance
	AC, 50/60Hz (ohms)
	61, 62, 63, 69
2.00	0.29
5.00	0.051
10.0	0.016
15.0	0.008
20.0	0.006

DCR and Impedance based on 100% rated current applied and stabilized for a minimum of one hour. Tolerance .05-2.5 amperes $\pm$ 20%: 2.6 -20 amperes $\pm$ 25%. Consult factory for special values and for coil impedance of delays not shown.

ORDERING OPTIONS

LEJBXA

-

66

-

1

-

62

-

20.0

-

AG

-

M6

-

T

Type & Handle

Step 1a

LEJ: One Handle per Unit, UL 489 Listed, CSA, TÜV*

LEJH: One Handle per Pole, UL 489 Listed, CSA, TÜV*

LUJ: One Handle per Unit, UL 489 Listed

LUJH: One Handle per Pole, UL 489 Listed

Step 1b (optional)

Standard toggle & mounting (no entry, proceed to step 1c)

Step 1c options must be followed by 6 or 66 for screw terminals.

F: Flat bus connect screw terminal (ex. LUXBXF)

A: Low depth construction (ex. LEJA)

V: Low profile screw terminal

* TÜV approval (EN60947-2) requires "T" added to end of part number

"BX" versions are single handle construction only. 2-pole units handle may be located on either pole, other than standard handle locations shown. Units must be ordered as non descript part numbers.

Poles & Terminals

1: Single Pole, Quick Connect Terminals

11: Two Poles, Quick Connect Terminals

6: Single Pole, Screw Terminals*

66: Two Poles, Screw Terminals*

*Screw terminals only for 10KAIC

Internal Configuration

1: Series

Frequency & Delay

61: 50/60Hz short delay

62: 50/60Hz Medium Delay

63: 50/60Hz Long Delay (Motor Start)

69: 50/60Hz 125% Instant Trip

Rated Current

Use three numbers in build (2.00 or 15.0 or 20.0) Required value between

2.00 amps minimum and

30.0 amps maximum, full integers only (specials available upon request)

Additional Options

A: Metric thread mounting inserts and terminal hardware

G: Handle guard w/ limited access (available for BX versions only)

L: Handle lock

M: Handle in opposite pole (2-pole only)

Z: Optional "Z" barrier (not available on "A" low depth)

R: 240VAC, 10KAIC

E: 277VAC, 10KAIC

Handle Colors, Indicators & Markings

Toggle Handle

Marked On-Off I - O

-01

Black

-11

Yellow

-21

Red

-31

Blue

-41

Green

-61

Orange

-91

White

BX Rocker Handle

Two-Color Rocker, Marking Detail "A"

Rocker Handle Color

Indicating Color

Marking Color

Indicates

Vertical Mounting

I-O

ON-OFF I-O

Horizontal Mounting

I-O

ON-OFF I-O

For BX: Bezel of BX is black. BX markings are same color as indicating color. Consult factory for other marking options.

Note, these are just a few of the options/orientations/colors available, please consult the factory for additional information.

LOAD

ON

I

OFF

LINE

ON

I

OFF

LOAD

ON

I

OFF

LINE

ON

I

OFF

LOAD

ON

I

OFF

LINE

ON

I

OFF

FIG. 1

FIG. 2

FIG. 3

FIG. 4

FIG. 5

FIG. 6

MARKING DETAIL "A"

NOTE: "ON" actuates towards the "up" and "right" direction

Agency Approval

T: TÜV approved certified to EN60947-2 Includes the CE mark

V: TÜV and CCC Approved

C: CCC Approved

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WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions can result in death or serious injury.

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