# AIRPAX LEJ \& LEJA Series 

Hydraulic-Magnetic Circuit Breakers


## (1) <br> ARPAX $\mid$ LEJ \& LEJA Series <br> Hydrallic-Magnetic Circuit Breakers

## INTRODUCTION

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. The LEJ/LEJA 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 two poles, 2 amps to 20 amps rated current at 240VAC per pole
- UL 489 listed and TÜV approvals available
- Up to $10,000 \mathrm{AIC}$ 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

| Agency Certification | Rated Amperage | Maximum Voltage per Pole | Short Circuit Amperage |
| :---: | :---: | :---: | :---: |
| UL 489 | 2 to 20 amps | $240 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ | 5000 |
| TÜV (EN60947-2) | 2 to 20 amps | $240 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ | 5000 |
| UL489 | 2 to 20 amps | $240 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ | 10000 |
| UL489 | 2 to 20 amps | $277 \mathrm{VAC}, 50 / 60 \mathrm{~Hz}$ | 10000 |

## CONFIGURATIONS: LEJ TOGGLE 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.
Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
2. Mounting detail tolerance: $\pm 0.005[0.13]$ unless noted.

## CONFIGURATIONS: LEJZX ROCKER HANDLE

## SINGLE POLE




OPTIONAL, HANDLE MAY BE IN
POLE 2 INSTEAD OF POLE 1

PANEL MOUNT CUTOUT - 1 or 2 POLE


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.
Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
Mounting detail tolerance: $\pm 0.005$ [0.13] unless noted.
Two pole ZX has standoffs (as shown). It uses 2 panel screws. A higher shock capability (4 panel screws) is available (consult factory).

## CONFIGURATIONS：LEJBX ROCKER HANDLE



TWO POLE


OPTIONAL，HANDLE MAY BE IN POLE 2 INSTEAD OF POLE 1

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.
Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
2. Mounting detail tolerance: $\pm 0.005$ [0.13] unless noted.

## CONFIGURATIONS: LEJBXA ROCKER HANDLE



TWO POLE


OPTIONAL, HANDLE MAY BE IN POLE 2 INSTEAD OF POLE 1


PANEL MOUNT CUTOUT - 1 POLE


PANEL MOUNT CUTOUT - 2 POLE


## CONFIGURATIONS: LEJZXA, ROCKER HANDLE



PANEL MOUNT CUTOUT - 1 POLE
PANEL MOUNT CUTOUT - 2 POLE


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## BARRIER OPTIONS FOR MULTI-POLE UNITS

STANDARD BARRIER -TOGGLE HANDLE


OPTIONAL (-Z) BARRIER - TOGGLE HANDLE


## TERMINAL OPTIONS

STANDARD - QUICK CONNECT \& SCREWTERMINALS


OPTIONAL - FLAT BUS CONNECT SCREWTERMINAL


NOTES:

1. Terminals:

Quick Connect $=0.250$ [6.35] wide $\times 0.031[0.79]$ thick
Screw $=10-32$ or M5 $\times 0.8$
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





50/60Hz 125\% Instant Trip


PERCENTAGE OF RATED CURRENT VS TRIP TIME IN SECONDS

| Delay | $\mathbf{1 0 0 \%}$ | $\mathbf{1 2 5 \%}$ | $\mathbf{1 5 0 \%}$ | $\mathbf{2 0 0 \%}$ | $\mathbf{4 0 0 \%}$ | $\mathbf{6 0 0 \%}$ | $\mathbf{8 0 0 \%}$ | $\mathbf{1 0 0 0 \%}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 20 | .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 $50 / 60 \mathrm{~Hz}$ 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 <br> Ratings <br> (Amps) | Impedance |  |
| :---: | :---: | :--- |
|  | AC, $\mathbf{5 0 / 6 0 H z}$ (ohms) | DCR and Impedance based on <br> 100\% rated current applied and <br> stabilized for a minimum of one |
| 2.00 | 0.29 | hour. Tolerance $05-2.5$ amperes <br> $\pm 20 \%: 2.6-20$ amperes $\pm 25 \%$. |
| 5.00 | 0.051 | Consult factory for special <br> values and for coil impedance <br> of delays not shown. |
| 10.0 | 0.016 |  |
| 20.0 | 0.006 |  |

## DECISION TABLES



| 3. Internal Configuration |  |
| :---: | :--- |
| 1 | Series | | 4. Frequency \& Delay |  |
| :--- | :--- |
| 61 | $50 / 60 \mathrm{~Hz}$ Short Delay |
| 62 | $50 / 60 \mathrm{~Hz}$ Medium Delay |
| 63 | $50 / 60 \mathrm{~Hz}$ Long Delay <br> (Motor Start) |
| 69 | $50 / 60 \mathrm{~Hz}$ <br> $125 \%$ Instant Trip |


| 5. Rated Current |
| :--- |
| Use three numbers in build <br> (2.00 or 15.0 or 20.0) <br>  <br> Required value between <br> $\mathbf{2 . 0 0}$ amps minimum and <br> $\mathbf{2 0 . 0}$ amps maximum, <br> full integers only <br> (specials available <br> upon request) |


| 6. Additional Options |  |
| :--- | :--- |
|  | Standard hardware, <br> no options required |
| A | Metric thread mounting inserts <br> and terminal hardware |
| G | Handle guard w/ limited access <br> (available for ZX \& BX versions only) |
| M | Handle in opposite pole <br> (2-pole only) |
| Z | Optional "Z" barrier <br> (not available on " A " low depth) |
| R | 240VAC, 10KAIC |
| E | 277VAC, 10KAIC |

## 7. Handle Colors, Indicators \& Markings

| Toggle Handle |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unmarked | $\begin{gathered} \text { Marked } \\ \text { ON - OFF } \\ \text { I-O } \end{gathered}$ | Handle Color | Unmarked | $\begin{gathered} \text { Marked } \\ \text { ON - OFF } \\ \text { I-O } \end{gathered}$ | Handle Color | Unmarked | Marked <br> ON - OFF <br> I-O | Handle Color | Unmarked | $\begin{gathered} \text { Marked } \\ \text { ON - OFF } \\ \text { I-O } \end{gathered}$ | Handle Color |
| - 00 | - 01 | Black | - 10 | - 11 | Yellow | - 20 | -21 | Red | - 30 | -31 | Blue |
| - 40 | -41 | Green | - 60 | -61 | Orange | - 90 | -91 | White |  |  |  |

ZX Rocker Handle (Two-Color Rocker, Marking Detail "A")

| Vertical Mount ON - OFF (fig 1) | Vertical Mount $1.0$ <br> (fig 2) | $\begin{gathered} \text { Vertical Mount } \\ \text { ON - OFF } \\ \text { I-0 } \\ \text { (fig 3) } \end{gathered}$ | Horizontal Mount ON - OFF (fig 4) | Horizontal Mount I-O <br> (fig 5) | $\begin{aligned} & \text { Horizontal Mount } \\ & \text { ON - OFF } \\ & \text { I-0 } \\ & \text { (fig 6) } \end{aligned}$ | Handle Color | Indicating Color | Marking Color | Indicates |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - F1 | - F2 | - F3 | - F4 | - F5 | - F6 | Black | White | White | OFF |
| - G1 | - G2 | - G3 | - G4 | - G5 | - G6 | Black | Red | White | OFF |

BX Rocker Handle (Two-Color Rocker, Marking Detail " $A$ ")

| Vertical Mount ON - OFF (fig 1) | Vertical Mount $1.0$ <br> (fig 2) | $\begin{gathered} \text { Vertical Mount } \\ \text { ON - OFF } \\ \text { I-O } \\ \text { (fig 3) } \end{gathered}$ | Horizontal Mount ON - OFF <br> (fig 4) | Horizontal Mount I-O <br> (fig 5) | $\begin{aligned} & \text { Horizontal Mount } \\ & \text { ON - OFF } \\ & \text { I-0 } \\ & \text { (fig 6) } \end{aligned}$ | Handle Color | Indicating Color | Marking Color | Indicates |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | - M2 | - M3 | - | - | - M6 | Black | White | White | OFF |
| - | - N2 | - N3 | - | - | - N6 | Black | Red | Red | OFF |

For $B X$ : Bezel of $B X$ is black. $B X$ markings are same color as indicating color. Consult factory for other marking options. For ZX: Black, red, blue and green handles have white marking. White, yellow and orange handles have black marking.

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


MARKING DETAIL "A"
NOTE: "ON" actuates towards the "up" and "right" direction

## X-ON Electronics

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    2. Mounting detail tolerance:
    $\pm 0.005$ [0.13] unless noted.
