

LEJ & LEJA Series

Hydraulic-Magnetic Circuit Breakers



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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 10,000AIC 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

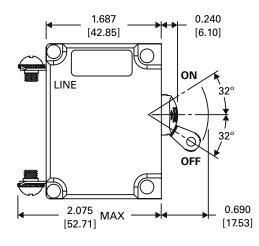
SPECIFICATIONS

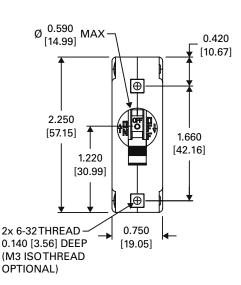
Agency Certification	Rated Amperage	Maximum Voltage per Pole	Short Circuit Amperage		
UL 489	2 to 20 amps	240 VAC, 50/60 Hz	5000		
TÜV (EN60947-2)	2 to 20 amps	240 VAC, 50/60 Hz	5000		
UL489	2 to 20 amps	240 VAC, 50/60 Hz	10000		
UL489	2 to 20 amps	277 VAC, 50/60 Hz	10000		

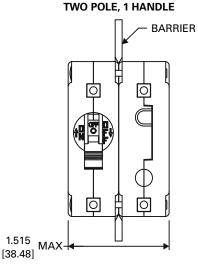


CONFIGURATIONS: LEJ TOGGLE HANDLE

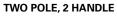
SINGLE POLE

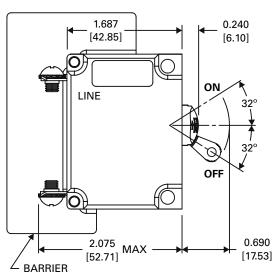


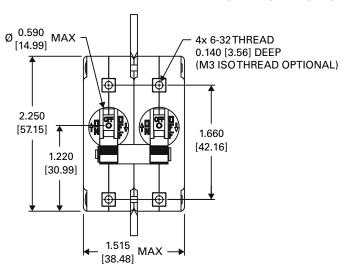




OPTIONAL, HANDLE MAY BE IN POLE 1 INSTEAD OF POLE 2

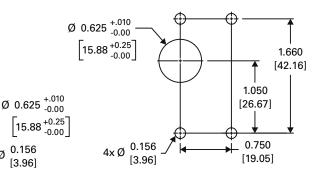




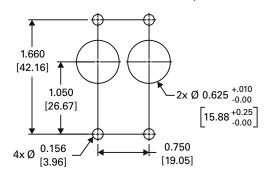


PANEL MOUNT CUTOUT - 1 POLE

PANEL MOUNT CUTOUT - 2 POLE, 1 HANDLE



PANEL MOUNT CUTOUT - 2 POLE, 2 HANDLE



NOTES:

1.660

[42.16]

1.050

[26.67]

- 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. 1.
- Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
- Mounting detail tolerance: ± 0.005 [0.13] unless noted. 3.

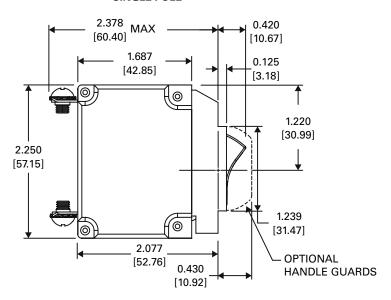
·2xØ 0.156

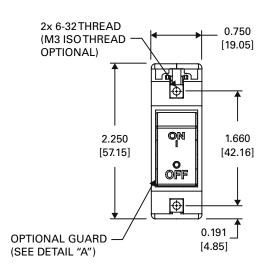
[3.96]



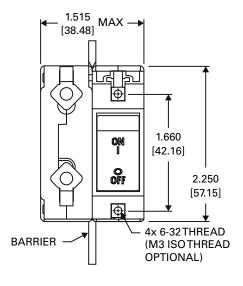
CONFIGURATIONS: LEJZX ROCKER HANDLE

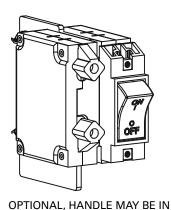
SINGLE POLE



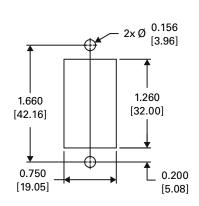


TWO POLE





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.

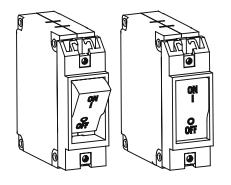
 2. Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
- 3. Mounting detail tolerance: ± 0.005 [0.13] unless noted.
- 4. Two pole ZX has standoffs (as shown). It uses 2 panel screws. A higher shock capability (4 panel screws) is available (consult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

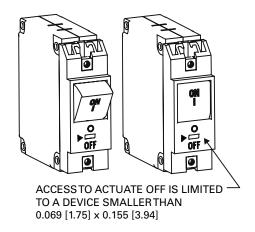
CONFIGURATIONS: LEJBX ROCKER HANDLE

SINGLE POLE TWO POLE 2.470 0.387 MAX 1.515 MAX → [62.74] [9.83] [38.48] 1.687 0.125 0.750 [42.85] [3.18] [19.05] 2x 6-32 THREAD (M3 ISOTHREAD (⊚ OPTIONAL) Φ Φł \oplus 1.220 [30.99] 2.250 ON 2.250 [57.15] 1.660 [57.15] [42.16] OFF LINE \oplus \oplus (0 1.239 \oplus [31.47] 2.000 0.191 **BARRIER** [4.85] [50.80] OPTIONAL, HANDLE MAY BE **BARRIER** IN POLE 2 INSTEAD OF POLE 1

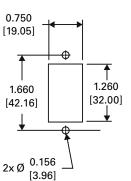
BX HANDLE WITHOUT GUARD

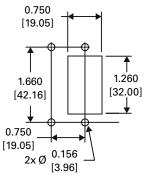




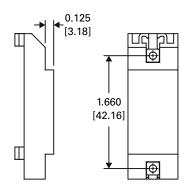


PANEL MOUNT CUTOUT (1 POLE) PANEL MOUNT CUTOUT (2 POLE)





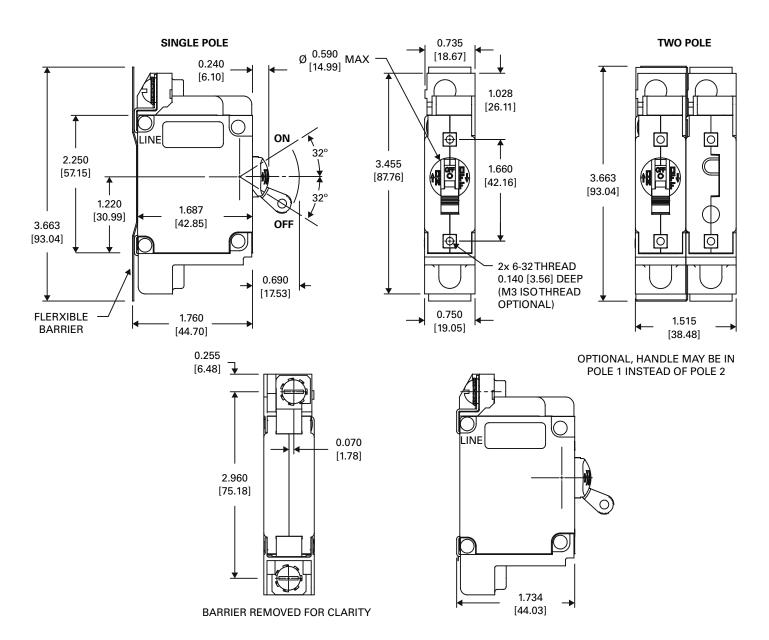
PANEL PLUG (CONSULT FACTORY FOR AVAILABILITY)



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)

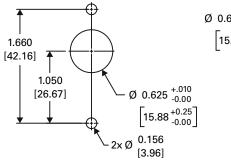


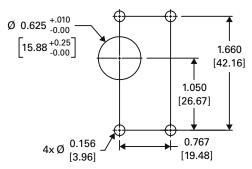
CONFIGURATIONS: LEJA, TOGGLE HANDLE



PANEL MOUNT CUTOUT - 1 POLE

PANEL MOUNT CUTOUT - 2 POLE, 1 HANDLE

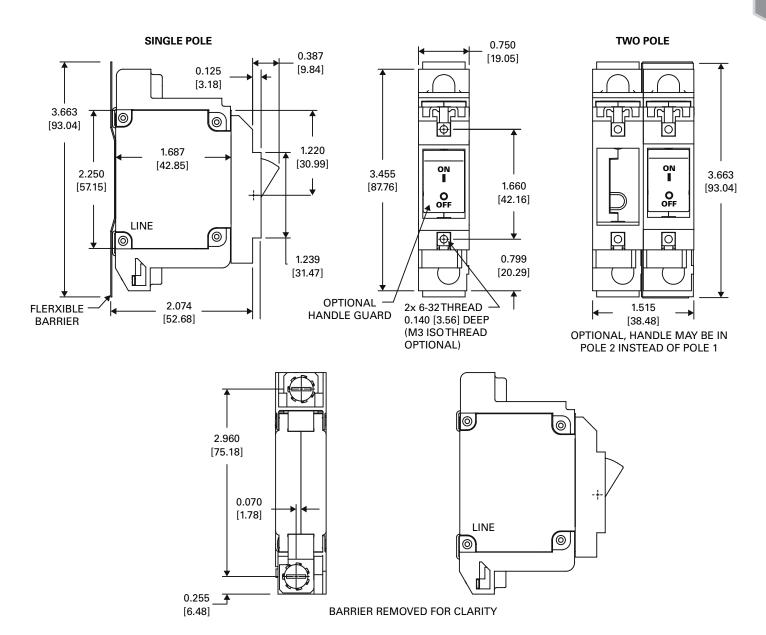




NOTES:

- 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:
 ± 0.005 [0.13] unless noted.

CONFIGURATIONS: LEJBXA ROCKER HANDLE



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

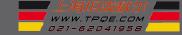
4x Ø . 0.156 0.750 [3.96] 0.750 [19.05] [19.05] \odot 1.660 1.260 1.260 1.660 [42.16] [32.00] [32.00] [42.16]0.200 0.767 2xØ 0.156 0.200 [5.08][19.48] [5.08] [3.96]

NOTES:

3.

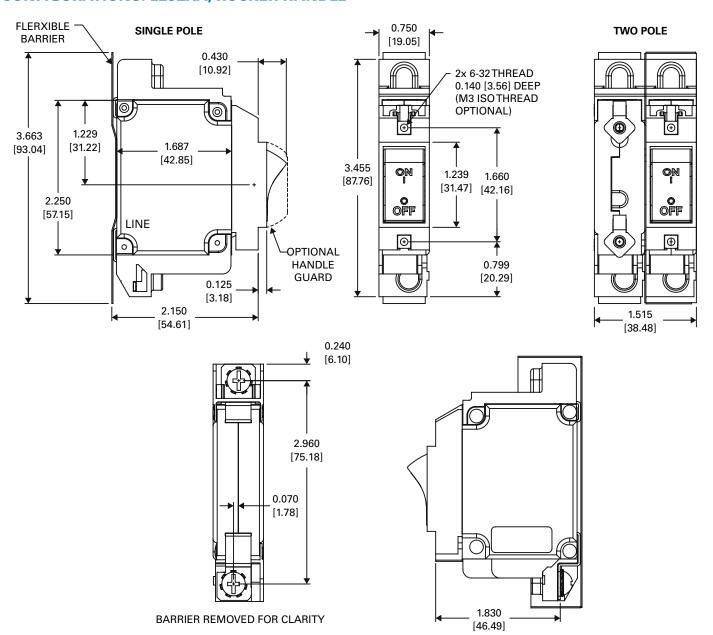
- All mounting inserts shall be utilized when panel mounting circuit breakers. Panel mounting screws shall have recommended torque applied: 6/32 mounting inserts 6 8 inch pounds.

 M3 mounting inserts 4 5 inch pounds.
 Panel mounting screws shall not extend beyond
- Panel mounting screws shall not extend beyond back of mounting panel more than specified mounting insert depth.
 - Mounting detail tolerance: ± 0.005 [0.13] unless noted.



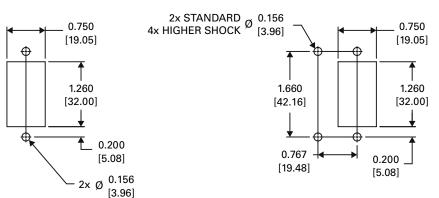


CONFIGURATIONS: LEJZXA, ROCKER HANDLE



PANEL MOUNT CUTOUT - 1 POLE

PANEL MOUNT CUTOUT - 2 POLE



NOTES:

- 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: ± 0.005 [0.13] unless noted.

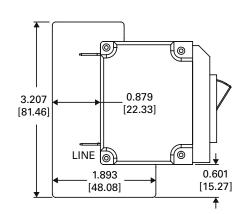
BARRIER OPTIONS FOR MULTI-POLE UNITS

STANDARD BARRIER - TOGGLE HANDLE

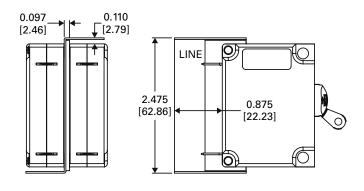
0.102 [2.59] 1.893 0.601 [48.08] [15.27] 1.893 0.601 [15.27] 0.879 [22.33]

STANDARD BARRIER - ZX & BX HANDLE

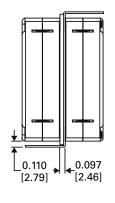


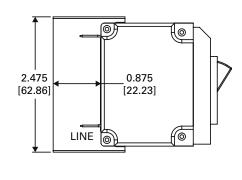


OPTIONAL (-Z) BARRIER - TOGGLE HANDLE



OPTIONAL (-Z) BARRIER - ZX & BX HANDLE

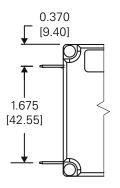


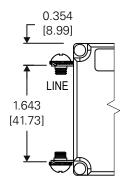




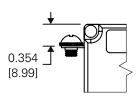
TERMINAL OPTIONS

STANDARD - QUICK CONNECT & SCREW TERMINALS





OPTIONAL - FLAT BUS CONNECT SCREW TERMINAL



NOTES:

Terminals:

Quick Connect = 0.250 [6.35] wide x 0.031 [0.79] thick

Screw = $10-32 \text{ or M5} \times 0.8$

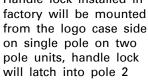
TÜV approval with screw terminals include external tooth lockwashers

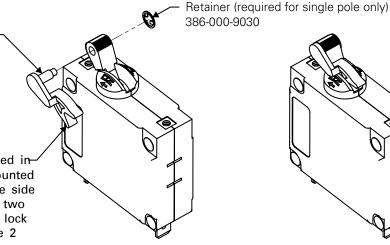
2. 10000 AIC available only with screw terminals

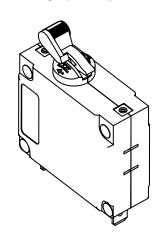
OPTIONAL HANDLE LOCK FOR TOGGLE HANDLE

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.

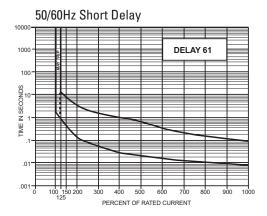


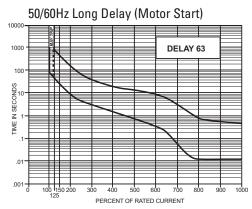


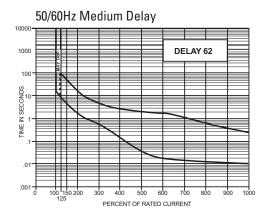


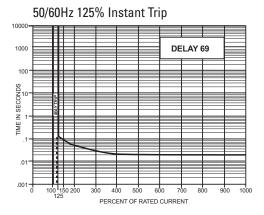


DELAY CURVES









PERCENTAGE OF RATED CURRENT VS TRIP TIME IN SECONDS

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 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 50/60Hz 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		Impedance				
Ratings	AC, 50/60Hz (ohms)	DCR and Imp				
(Amps)		61, 62, 63, 69	100% rated c stabilized for			
	2.00	0.29	hour. Tolerai + 20%: 2.6 -20			
	5.00	0.051	Consult facto			
	10.0	0.016	values and fo of delays not			
	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 ± 20%: 2.6 -20 amperes ± 25%. Consult factory for special values and for coil impedance of delays not shown.



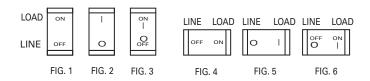
DECISION TABLES

LEJ D'one Handle per Pulic, LSA TUY LSDH D'one Handle per Pulic, p	Step 1a		Step 1	b (optional)	s	tep 1	c (optional)					
De Poles Cas TUV* ULJ De Poles Cas TUV* ULJ One Handle per Iole. UL 489 Listed ULJ One Handle per Iole. UL 489 Listed ULJ One Poles Quick Connect Terminals 1 Single Pole, Quick Connect Terminals 1 Single Pole, Quick Connect Terminals 1 ToV approved Certified to PN6947 1 Sorgie Poles, Quick Connect Terminals 1 Tov Poles, Quick Connect Terminals 1 Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series Standard hardware no descript part numbers. LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series Standard hardware, no explores required A Merit chread mounting inserts and terminal hardware no explores required A Merit chread mounting inserts and terminal hardware and terminal hardware. G Handle guard will instead access (a variable for 72 & 8K versions only) Handle load popular will instead access (a variable for 72 berwinning) Handle load popular will instead access (a variable for 72 berwinning) Cypicals kavallable upon request) R 240VAC, 10KAIC		One Handle per Unit, UL 489 Listed,		Standard toggl & mounting (no entry, proce	e		Flat bus connect screw terminal					
per Unit, UL 489 Listed LUH One Handle per Pole, UL 499 Listed LUH One Handle per Pole, UL 499 Listed LUH One Handle per Pole, Order Terminals 2. Poles & Terminals 11 Tvo Poles, Suick Connect Terminals 12 Single Pole, Quick Connect Terminals 13 Single Pole, Quick Connect Terminals 14 Single Pole, Suick Connect Terminals 15 Single Pole, Suick Connect Terminals 16 Single Pole, Strew Terminals 17 Tvo Poles, Strew Terminals 18 Single Pole, Order Configuration 19 Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series LEJBXA 66 - 1 - 62 - 20.0 - AG - M6 - T Series Series terminals Series Series terminals Series Sandard hardware, no options required A Metric thread mounting inserts and terminal hardware no options required A Metric thread mounting inserts and terminal hardware no options required A Metric thread mounting inserts and terminal hardware Find thread to represent the pole of the series of the s	LEJH	per Pole, UL 489 Listed,		integral mount ZX rocker with	ing	Α						
Companies Discrete Protect UI. 489 Listed 8. Approvals T TUV approved Certified to EN60947 Includes the CE man Town Poles, Quick Connect Terminals Town Poles, Screw Terminals Town Poles, Scr	LUJ	per Unit,	"ZX" 8	& "BX" versions ar	e single hand	lle con:	struction only. 2-pole units handl					
2. Poles & Terminals 1 Single Pole, Quick Connect Terminals 11 Two Poles, Quick Connect Terminals 6 Single Pole, Screw Terminals* 6 Single Pole, Screw Terminals* 9 "Screw terminals only for 10KAIC 3. Internal Configuration 1 Series 4. Frequency & Delay 61 Sol/60Hz Inop Delay 62 Sol/60Hz Cong Delay 63 Sol/60Hz Long Delay 64 (Motor Stat) 65 Sol/60Hz Inop Delay 66 Two Poles, Screw Terminals only for 10KAIC 5. Rated Current 1 Series 5. Rated Current 1 Series 5. Rated Current 1 Series 6 Additional Options 6 Additional Options 6 Additional Options 7 TOV approved Certified to Nicosyth Includes the CE mark 1 Includes the CE mark 1 Sol/60Hz Long Delay 6 Sol/60Hz Includes the CE mark 1 Solid Includes the CE mark 1 Series 6 Additional Options 7 Standard hardware, 1 no options required 8 Additional Options 9 Standard hardware, 1 no options required 9 A Metric thread mounting inserts 1 and terminal hardware 1 of Hardie quard will imited access 1 Sandard hardware 1 oposite pole 1 Copole only) 1 Copeion sylving in the poposite pole 1 Copeion sylving in the properties of the poposite pole 2 Optional 72 barrier 1 fort available on 74 low depth) 1 R 240VAC, 10KAIC	LUJH	per Pole,	роге, с	otner than standard	rnandie local	ions sr	iown. Units must be ordered as	non descrip	n part numbe	ers.	8. /	Approvals
1 Single Pole, Quick Connect Terminals 11 Two Poles, Quick Connect Terminals 6 Single Pole, Screw Terminals* 6 Two Poles, Screw Terminals* 6 Two Poles, Screw Terminals* 9 Screw terminals only for 10KAIC 1 Series 1 Series 1 Series 1 Series 1 Sol/60Hz Short Delay 6 Sol/60Hz Short Delay 6 Sol/60Hz Long Delay (Motor Start) 6 Standard hardware, no options required 7 A Metric thread mounting inserts and terminal hardware 8 A Metric thread mounting inserts and terminal hardware 9 Col one promainum, and 200 amps mainimum and 200 amps mainimum and 200 amps mainimum and 200 amps mainimum (Iul integers only (Specials available (pupor request)) 1 Sol/60Hz Short Delay 1 Sol/60Hz	2. Pole	s & Terminals										
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6 Single Pole, Screw Terminals* 66 Two Poles, Screw Terminals* *Screw terminals only for 10KAIC 3. Internal Configuration 1 Series 4. Frequency & Delay 61 So/60Hz Medium Delay 62 50/60Hz Medium Delay 63 S0/60Hz Long Delay (Motor Start) 69 So/60Hz Ing Delay (Motor Start) 125% Instant Trip 5. Rated Current Use three numbers in build (20 or 15.0 or 20.0) Required value between 2.00 amps mainimum and 2.01 smpt mainimum and 2.02 on properties only (specials available upon request) R 240VAC, 10KAIC												merades the CL mark
66 Two Poles, Screw Terminals* *Screw terminals only for 10KAIC 3. Internal Configuration 1 Series 4. Frequency & Delay 61 So/60Hz Short Delay 62 So/60Hz Medium Delay 63 So/60Hz Long Delay (Motor Start) 69 So/60Hz 125% Instant Trip 6. Additional Options 5. Rated Current Use three numbers in build (200 or 15.0 or 20.0) Required value between 2.00 amps minimum and 2.0 amps maximum, full integers only Cy-pole only) I Specials available upon request) R 240VAC, 10KAIC							LEJBXA 66-1	- 62 -	-20.0	-AG-	M6-T	
*Screw terminals only for 10KAIC 3. Internal Configuration 1. Series 4. Frequency & Delay 61. 50/60Hz Short Delay 62. 50/60Hz Medium Delay 63. 50/60Hz Long Delay (Motor Start) 69. \$0/60Hz 1259% Instant Trip 5. Rated Current Use three numbers in build (2.00 or 15.0 or 20.0) Required value between 2.00 amps maximum, full integers only Capole only) 1. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware G Handle guard w/ limited access (available to for ZX & EX versions only) M Handle in opposite pole (2-pole only) I Optional "Z" barrier (not available upon request) R 240VAC, 10KAIC											\top	
4. Frequency & Delay 61	*Sc	rew terminals only for 1	0KAIC		L							
52 50/60Hz Long Delay (Motor Start) 59 50/60Hz 125% Instant Trip 6. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware and terminal hardware (available for ZX & BX versions only) M Handle in opposite pole (2-pole only) Z Optional "Z" barrier (not available on "A" low depth) R 240VAC, 10KAIC	l. Freq	uency & Delay										
63 50/60Hz Long Delay (Motor Start) 69 50/60Hz 125% Instant Trip 6. Additional Options Standard hardware, no options required A Metric threa dmounting inserts and terminal hardware (2.00 or 15.0 or 20.0) Required value between 2.00 amps minimum and 20.0 amps minimum, full integers only (specials available upon request) 6. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware G Handle guard w/ limited access (available for ZX & BX versions only) M Handle in opposite pole (2-pole only) Z Optional "Z" barrier (not available on "A" low depth) R 240VAC, 10KAIC	61 50	0/60Hz Short Delay										
(Motor Start) 5. Rated Current Use three numbers in build (2.00 or 15.0 or 20.0) Required value between 2.00 amps minimum and 20.0 amps maximum, full integers only (specials available upon request) 6. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware G Handle guard w/ limited access (available for ZX & BX versions only) M Handle in opposite pole (2-pole only) Z Optional "Z" barrier (not available on "A" low depth) R 240VAC, 10KAIC	62 50	0/60Hz Medium Delay										
6. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware (2.00 or 15.0 or 20.0) Required value between 2.00 amps minimum and 20.0 amps maximum, full integers only (specials available upon request) 6. Additional Options Standard hardware, no options required A Metric thread mounting inserts and terminal hardware G Handle guard w/ limited access (available for ZX & BX versions only) M Handle in opposite pole (2-pole only) Z Optional "Z" barrier (not available on "A" low depth) R 240VAC, 10KAIC												
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20.0 amps maximum, full integers only Z Optional "Z" barrier (specials available upon request) R 240VAC, 10KAIC	Required	value between			G	(avai	lable for ZX & BX versions only	y)				
(specials available upon request) Z Optional "Z" barrier (not available on "A" low depth) R 240VAC, 10KAIC	20.0 amp	os maximum,			М							
R 240VAC, 10KAIC	_	·			Z							
E 277VAC, 10KAIC	upon req	uest)			R	240\	/AC, 10KAIC					
					Е	277\	/AC, 10KAIC					

7. Handle	Colors, Ind	icators &	Markings										
Toggle Har	ndle												
Unmarked	Marked ON - OFF I - O	Handle Color	Unmarked		landle Color	Unmarke	d Marked ON - OFF I - O	Handle Color	Unmarked	Marked ON - OFF I - O	Handle Color		
- 00	- 01	Black	- 10	- 11 Y	ellow	- 20	- 21	Red	- 30	- 31	Blue		
- 40	- 41	Green	- 60	- 61 0	range	- 90	- 91	White		,	'		
ZX Rocker	ZX Rocker Handle (Two-Color Rocker, Marking Detail "A")												
Vertical Mou ON - OFF (fig 1)	ı	al Mount - O ig 2)	Vertical Mount ON - OFF I - O (fig 3)	Horizontal Mount ON - OFF (fig 4)	- OFF 1 - C		Horizontal Mount ON - OFF I - O (fig 6)	Handle Color	Indicating Color	Marking Color	Indicates		
- F1	-	F2	- F3	- F 4	- F4 - F		- F6	Black	White	White	OFF		
- G1	-	G2	- G 3	- G4	- G5		- G 6	Black	Red	White	OFF		
BX Rocker	Handle (Two	-Color Roc	ker, Marking De	tail "A")									
Vertical Mou ON - OFF (fig 1)	'	al Mount - O ig 2)	Vertical Mount ON - OFF I - O (fig 3)	Horizontal Mount ON - OFF (fig 4)	Horizontal Mou I - O (fig 5)				Horizontal Mount ON - OFF I - O (fig 6)	Handle Color	Indicating Color	Marking Color	Indicates
-	-	M2	- M3	_	-	-	- M6	Black	White	White	OFF		
_	-	N2	- N3	_	_	-	- N6	Black	Red	Red	OFF		

For BX: Bezel of BX is black. BX 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