

H-Series

Hydraulic-Magnetic Circuit Breaker

PRODUCT WEBPAGE

request sample, configure part



Compact and IEC Compliant for Global Markets

The H-Series is a compact hydraulic-magnetic circuit breaker, meeting IEC spacing requirements for global market applications. It features a "trip free" mechanism, which will open the contacts when a fault condition occurs, even if the handle is held in the ON position. It fits both general and full amp load conditions, offering a choice of terminal options and handle or rocker actuators. The H-Series is rated up to 35 amps with a maximum voltage of 250VAC/65VDC or 80VDC for single pole configurations and a max IC of 3,000 amps.

1-3

Poles

1-35

Amps

80

VDC Max

250

VAC Max

Typical Applications

• Datacom/Telecom

• Marine

Tech Specs

Electrical

Maximum Voltage	250VAC 50/60Hz 80 VDC
Current Ratings	Standard current coils: 1.00, 2.50, 5.00, 7.50, 10.0, 15.0, 20.0, 25.0, 30.0, 32.0, 35.0 SPDT: 10.1A-250VAC, Auxiliary Switch Rating 1.0A-65VDC/0.5A-80VDC,
Auxiliary Switch Rating	1.0A-65VDC/0.5A-80VDC, 0.1A-125VAC (with gold contacts)

Mechanical

Endurance	10,000 ON-OFF operations @ 6 per minute; with rated current & voltage
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Physical

Number of poles	1-3
Weights	Approx. 48 grams/pole (1.7 oz)
Internal Circuit config.	Series and Switch Only (with or without auxiliary switch)

Agency Approvals

UL Recognized under the Component Recognition Program as Protectors, Supplementary (Guide QVNU2 File E75596)
UL standard 1077

CCC certified, Certificate No. 2010010307447291

CSA Accepted Supplementary Protector
CSA standard C22.2 No. 235

TUV certified to EN60934, Certificate No. R50204086

Typical Protector Resistance

DCR and Impedance values are based on measurements by the voltmeter ammeter method. Rated current is applied for one hour at a voltage not less than 20 volts. Ambient temperature: 25°C; Tolerance: Below 10 amps +/- 25%
Above 10 amps +/-35%

Impedance Chart

Current Rating (Amps)	Series	
	DC-Ohms	50/60Hz-Ohms
1	0.85	0.87
2.5	0.13	0.15
5	0.035	0.036
7.5	0.018	0.019
10	0.010	0.011
15	0.006	0.0061
20	0.005	0.0051
25	0.003	0.0035
30	0.0025	0.0026
35	0.0021	0.0022

Tables

Table A: Lists UL Recognized, CSA Accepted and TUV Certified configurations and performance capabilities as a Component Supplementary Protector.

Component Supplementary Protectors										
Circuit Configuration	Voltage			Current Rating		Short Circuit Capacity (Amps)			Application Codes	
	Max Rating	Frequency	Phase	Full Load Amps	Minimum Poles	UL	CSA	TUV	UL	CSA
						Without Backup Fuse	Without Backup Fuse	(Icn) Without Backup Fuse		
Series	65	DC	---	1 - 25	1	3000	3000	3000	TC1, OL1, U1	TC1, OL1, U1
	65	DC	---	26 - 35	1	3000	3000	3000	TC1, OL1, U3	TC1, OL1, U3
	80	DC	---	1 - 25	1	1000	1000	1000	TC1, OL1, U1	TC1, OL1, U1
	80 ¹	DC	---	26 - 35	1	1000	1000	1000	TC1, OL1, U3	TC1, OL1, U3
	250	50 / 60	1	1 - 35	1	1500	1500	500	TC1, OL1, U1	TC1, OL1, U3
	250	50 / 60	1	1 - 35	2	1500	1500	500	TC1, OL1, U3	TC1, OL1, U3
	250	50 / 60	3	1 - 35	3	1500	1500	500	TC1, OL0, U3	TC1, OL0, U3

Notes:
1 Polarity Sensitive

Time Delay Specs

To view all hydraulic-magnetic circuit breaker time delay values, please visit
www.carlingtech.com/sites/default/files/documents/Carling-HM-CB-Time-Delays.pdf

Ordering Scheme

Handle

Sample
Part Number

H A 3 - B 0 - 24 - 420 - 1 B 1 - D C

Selection

1 2 3 4 5 6 7 8 9 10 11 12

1. SERIES

H

2. ACTUATOR

1

A Handle, one per pole
B Handle, one per unit

3. POLES

2

1 One 2 Two 3 Three

4. CIRCUIT

A Switch Only (no coil) C⁴ Series Trip (voltage)
B Series Trip (current) G⁴ Relay Trip (voltage)

5. AUXILIARY/ALARM SWITCH

3

0 without Aux Switch 3³ 0.110 Q.C. term
1³ 0.110 Q.C. term
2³ 0.110 Solder Lug 4³ 0.110 PC term

6. FREQUENCY & DELAY

03³ DC 50/60HZ, Switch Only 31 DC, 50/60Hz, Ultra Short
10 DC, Instantaneous 32 DC, 50/60Hz, Short
11 DC, Ultra Short 34 DC, 50/60Hz, Medium
12 DC, Short 36 DC, 50/60Hz, Long
14 DC, Medium 42⁴ 50/60 Hz High-inrush Short
16 DC, Long 44⁴ 50/60 Hz High-inrush Me-
20 50/60 Hz Instantaneous dium
21 50/60 Ultra Short 46⁴ 50/60 Hz High-inrush Long
22 50/60 Hz Short 52⁴ DC High-inrush Short
24 50/60 Hz Medium 54⁴ DC High-inrush Medium
26 50/60 Hz Long 56⁴ DC High-inrush Long
30 DC, 50/60Hz, Instantaneous

7. CURRENT RATING (AMPERES)

CODE	AMPERES						
410	1.00	445	4.50	610	10.00	618	18.00
512	1.25	450	5.00	710	10.50	620	20.00
415	1.50	455	5.50	611	11.00	622	22.00
517	1.75	460	6.00	711	11.50	624	24.00
420	2.00	465	6.50	612	12.00	625	25.00
522	2.25	470	7.00	712	12.50	630	30.00
425	2.50	475	7.50	613	13.00	632	32.00
527	2.75	480	8.00	614	14.00	635	35.00
430	3.00	485	8.50	615	15.00		
435	3.50	490	9.00	616	16.00		
440	4.00	495	9.50	617	17.00		

VOLTAGE RATING

CODE	RATING	TRIP VOLTS						
A06	6DC	5DC	A65	65DC	55DC	J65	65AC	55AC
A12	12DC	10DC	J06	6AC	5AC	K20	120AC	65AC
A18	18DC	15DC	J12	12AC	10AC	L40	240AC	130AC
A24	24DC	20DC	J18	18AC	15AC	B10	110DC	59DC
A32	32DC	25DC	J24	24AC	20AC	B20	120DC	65DC
A48	48DC	40DC	J48	48AC	40AC			

8. TERMINAL

1 Push ON 0.250 Tab (Q.C.)
2 Screw 8-32 with upturned lugs
3 Screw 8-32 (bus type)
A Screw M4 with upturned lugs
B Screw M4 (bus type)
Printed Circuitboard Terminals
L 90 Facing Left
R 90 Facing Right
S Straight
T Straight, Long

9. ACTUATOR COLOR & LEGEND

Actuator Color	I-O	ON-OFF	Dual	Legend Color
White	A	B	1	Black
Black	C	D	2	White
Red	F	G	3	White
Green	H	J	4	White
Blue	K	L	5	White
Yellow	M	N	6	Black
Gray	P	Q	7	Black
Orange	R	S	8	Black

10. MOUNTING / BARRIERS

	MOUNTING STYLE Threaded Insert	BARRIERS	BEZEL
1	6-32 x 0.195 inches	no	domed
A	6-32 x 0.195 inches	yes	domed
2	ISO M3 x 5mm	no	domed
B	ISO M3 x 5mm	yes	domed
3	6-32 x 0.195 inches	no	flat
C	6-32 x 0.195 inches	yes	flat
4	ISO M3 x 5mm	no	flat
D	ISO M3 x 5mm	yes	flat

11. MAX. APPLICATION RATING

A 65VDC
D 250VAC
M⁶ 80VDC
4⁷ 80VDC / 250VAC

12. AGENCY APPROVAL

A Without approvals
C UL Recognized, CSA Accepted
E UL Recognized, CSA Accepted, TUV Certified
5 UL Recognized, CSA Accepted, TUV Certified, CCC Certified

Notes:

- 1 Actuator Option A: handle tie pin, spacer & retainers provided unassembled on multipole units.
Actuator Option B: Handle location as viewed from front of panel: 2 pole: left pole;
3 pole: center pole
- 2 Standard multipole units have all poles identical, except when specifying auxiliary switch
- 3 Auxiliary switch available on Series Trip and Switch Only circuits to 32A. On multipole units, only one auxiliary switch is normally supplied, mounted in extreme right pole.
- 4 Separate Pole Type Voltage Coils not rated for continuous duty. Available only with delay code 10 & 20. Only Available with Agency code C.
- 5 For other current ratings, consult factory.
- 6 26-35A Polarity sensitive, only available as 1 pole unit.
- 7 Voltage code 4 available to 25A max.

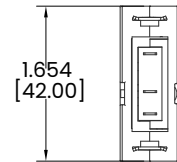
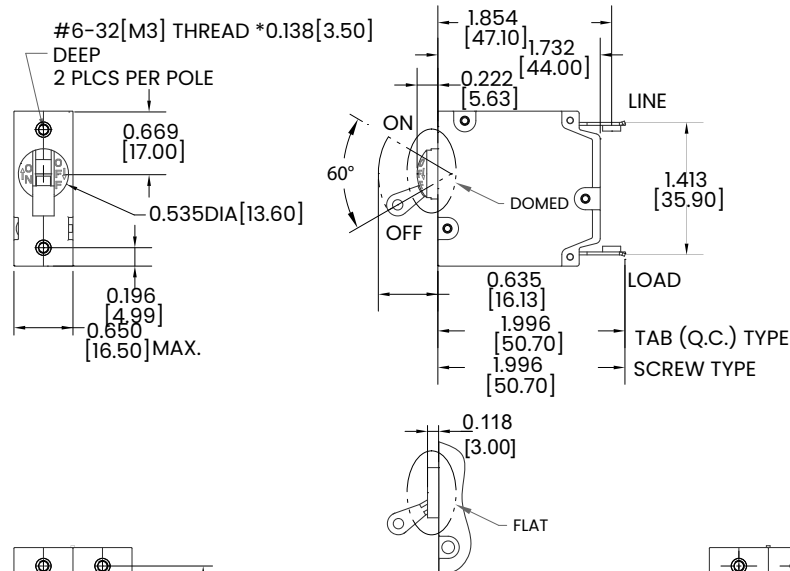
[Configure Complete Part Number >](#)

[Browse Standard Parts >](#)

Dimensional Specs Handle

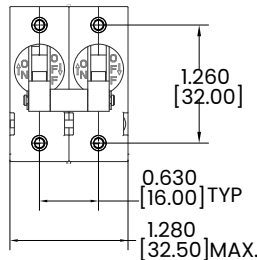
inches [millimeters]

**1-POLE
(HA1)**

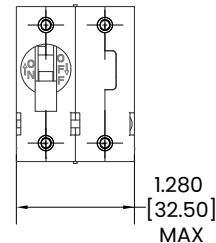


SCREW TYPE TERMINALS IN
SERIES TRIP CIRCUIT
CONFIGURATION SHOWN.
FOR OTHER
CONFIGURATIONS, SEE
CIRCUIT AND TERMINAL
DIAGRAMS.

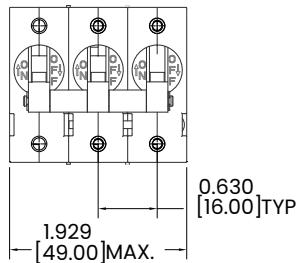
**2-POLE
(HA2)**



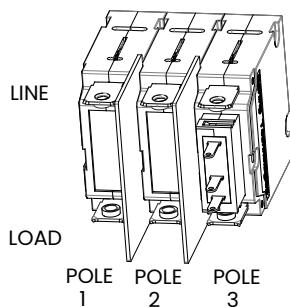
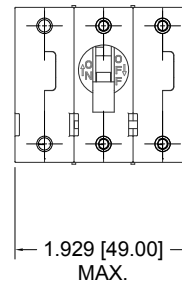
**2-POLE
(HB2)**



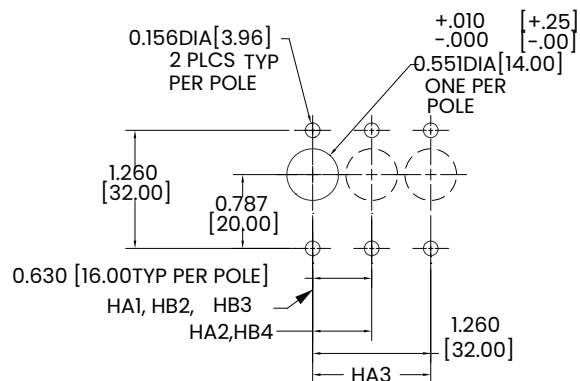
**3-POLE
(HA3)**



**3-POLE
(HB3)**



MULTI-POLE IDENTIFICATION SCHEME
AS VIEWED FROM TERMINAL END OF
BREAKER.



PANEL CUTOUT DETAIL
TOLERANCES ±.005
[±.12]
UNLESS OTHERWISE
SPECIFIED

Notes:

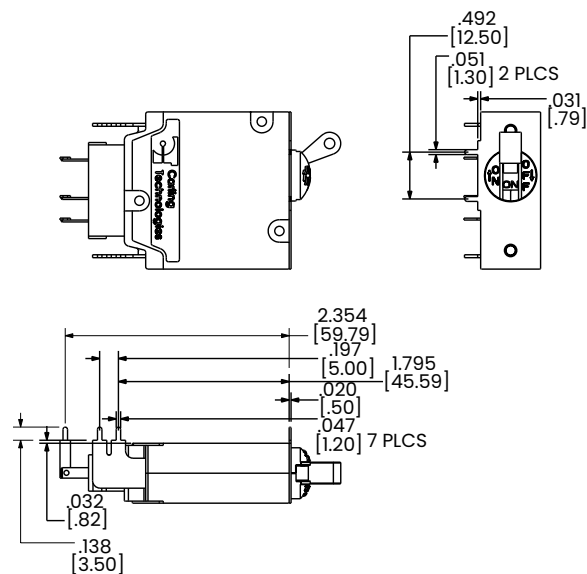
1 Tolerance ±.020 [.51] unless otherwise specified.

PC Terminal Diagrams

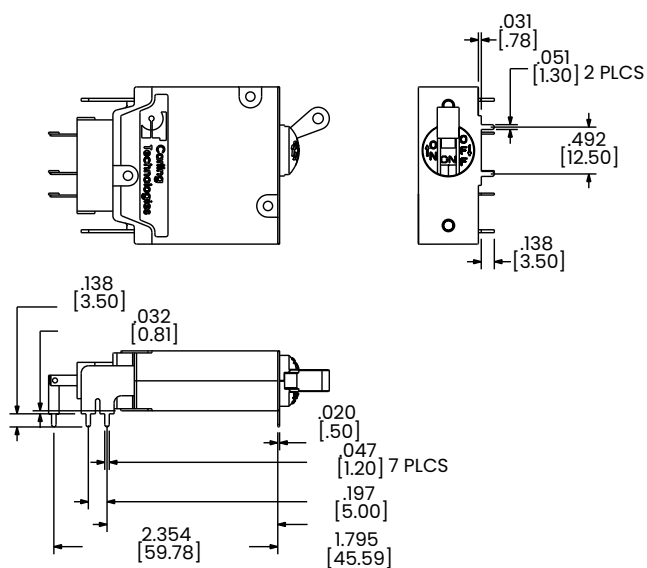
Handle

inches [millimeters]

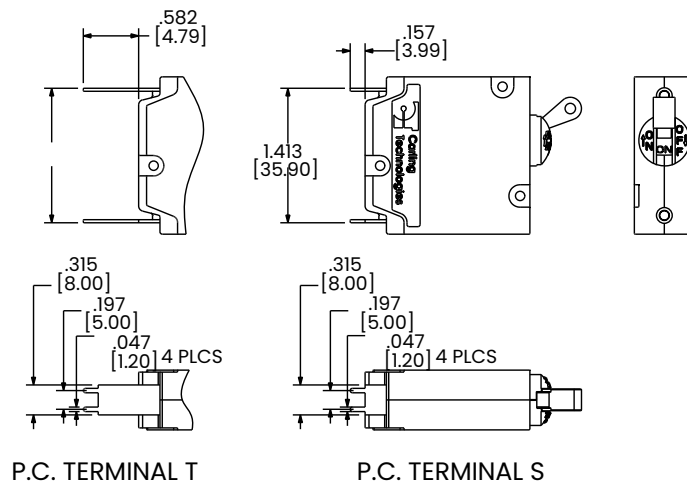
**PRINTED CIRCUIT BOARD
MOUNTING TERMINAL CODE R**



**PRINTED CIRCUIT BOARD
MOUNTING TERMINAL CODE L**



**PRINTED CIRCUIT BOARD MOUNTING
TERMINAL CODE S & T**



P.C. TERMINAL T

P.C. TERMINAL S

Notes:

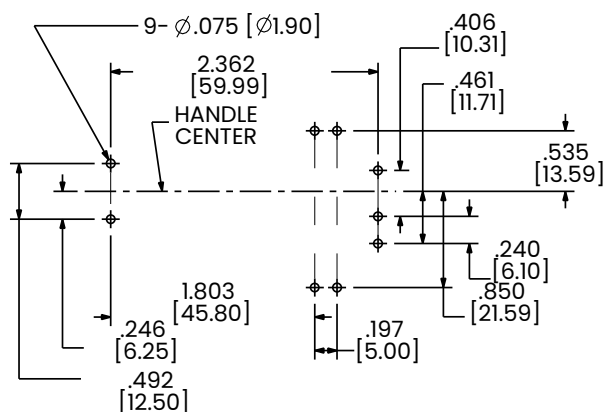
1 Tolerance $\pm .020$ [.51] unless otherwise specified.

PC Terminal Diagrams

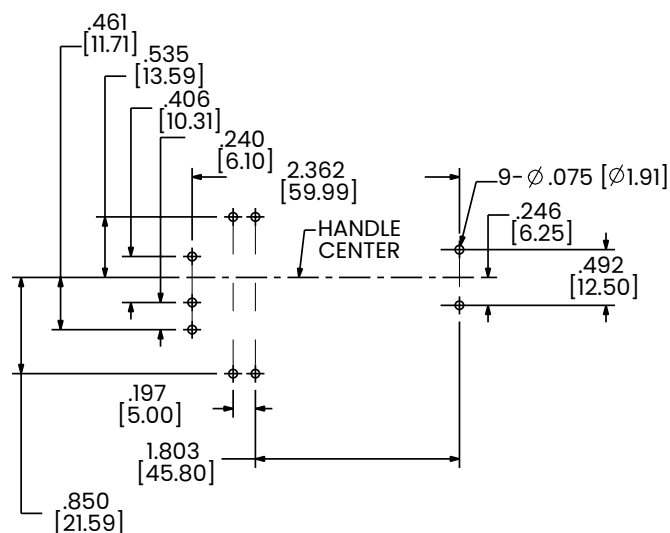
Handle

inches [millimeters]

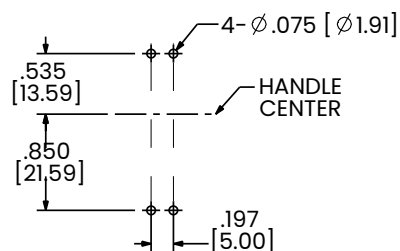
**P.C. FOOT PRINT
FOR TERMINAL CODE R**



**P.C. FOOT PRINT
FOR TERMINAL CODE L**



**P.C. FOOT PRINT
FOR TERMINAL CODE S & T**



Notes:
1 Tolerance $\pm$.020 [.51] unless otherwise specified.

Ordering Scheme

Curved Rocker

Sample
Part Number

H J 3 - B 0 - 10 - 450 - 1 B 1 - A C

Selection

1 2 3 4 5 6 7 8 9 10 11 12

1. SERIES

H

2. ACTUATOR ¹

J Vertical - Indicator OFF
K Vertical - Indicator ON
L Horizontal - Indicator OFF
M Horizontal - Indicator ON

3. POLES ²

1 One 2 Two 3 Three

4. CIRCUIT

A Switch Only (no coil) C ⁴ Series Trip (voltage)
B Series Trip (current) G ⁴ Relay Trip (voltage)

5. AUXILIARY/ALARM SWITCH

0 without Aux Switch 3 ³ 0.110 Q.C. term
1 ³ 0.110 Q.C. term with gold contacts
2 ³ 0.110 Solder Lug 4 ³ 0.110 PC term

6. FREQUENCY & DELAY

03 ³ DC 50/60HZ, Switch Only 31 DC, 50/60Hz,Ultra Short
10 DC, Instantaneous 32 DC, 50/60Hz, Short
11 DC, Ultra Short 34 DC, 50/60Hz, Medium
12 DC, Short 36 DC, 50/60Hz, Long
14 DC, Medium 42 ⁴ 50/60 Hz High-inrush Short
16 DC, Long 44 ⁴ 50/60 Hz High-inrush Me-
20 50/60 Hz Instantaneous dium
21 50/60 Ultra Short 46 ⁴ 50/60 Hz High-inrush Long
22 50/60 Hz Short 52 ⁴ DC High-inrush Short
24 50/60 Hz Medium 54 ⁴ DC High-inrush Medium
26 50/60 Hz Long 56 ⁴ DC High-inrush Long
30 DC, 50/60Hz, Instantaneous

7. CURRENT RATING (AMPERES)

CODE	AMPERES						
410	1.00	445	4.50	610	10.00	618	18.00
512	1.25	450	5.00	710	10.50	620	20.00
415	1.50	455	5.50	611	11.00	622	22.00
517	1.75	460	6.00	711	11.50	624	24.00
420	2.00	465	6.50	612	12.00	625	25.00
522	2.25	470	7.00	712	12.50	630	30.00
425	2.50	475	7.50	613	13.00	632	32.00
527	2.75	480	8.00	614	14.00	635	35.00
430	3.00	485	8.50	615	15.00		
435	3.50	490	9.00	616	16.00		
440	4.00	495	9.50	617	17.00		

VOLTAGE RATING

CODE	RATING	TRIP VOLTS					
A06	6DC	5DC	A65	65DC	55DC	J65	65AC 55AC
A12	12DC	10DC	J06	6AC	5AC	K20	120AC 65AC
A18	18DC	15DC	J12	12AC	10AC	L40	240AC 130AC
A24	24DC	20DC	J18	18AC	15AC	B10	110DC 59DC
A32	32DC	25DC	J24	24AC	20AC	B20	120DC 65DC
A48	48DC	40DC	J48	48AC	40AC		

Notes:

- Half guard construction have OFF protection for actuator
- Standard multipole units have all poles identical, except when specifying auxiliary switch
- Auxiliary switch available on Series Trip and Switch Only circuits to 32A. On multipole units, only one auxiliary switch is normally supplied, mounted in extreme right pole.
- Separate Pole Type Voltage Coils not rated for continuous duty. Available only with delay code 10 & 20. Only Available with Agency code C.
- For other current ratings, consult factory.
- On Visi-Rocker, Visi portion of rocker cannot be the same color as the bezel. Remainder of rocker same color as bezel.
- 26-35A Polarity sensitive, only available as 1 pole unit.
- Voltage code 4 available to 25A max.

8. TERMINAL

1 Push ON 0.250 Tab (Q.C.)
2 Screw 8-32 with upturned lugs
3 Screw 8-32 (bus type)
A Screw M4 with upturned lugs
B Screw M4 (bus type)
Printed Circuitboard Terminals
L 90 Facing Left
R 90 Facing Right
S Straight
T Straight, Long

9. ACTUATOR COLOR & LEGEND

Actuator Color	I-O	ON-OFF	Dual	Legend Color
White	A	B	1	Black
Black	C	D	2	White
Red	F	G	3	White
Green	H	J	4	White
Blue	K	L	5	White
Yellow	M	N	6	Black
Gray	P	Q	7	Black
Orange	R	S	8	Black

10. MOUNTING / BARRIERS

	MOUNTING STYLE Threaded Insert	BARRIERS	ROCKER GUARD	BRACKET COLOR
1	6-32 x 0.195 inches	no	no	Black
A	6-32 x 0.195 inches	yes	no	Black
2	ISO M3 x 5mm	no	no	Black
B	ISO M3 x 5mm	yes	no	Black
3	6-32 x 0.195 inches	no	yes	Black
C	6-32 x 0.195 inches	yes	yes	Black
4	ISO M3 x 5mm	no	yes	Black
D	ISO M3 x 5mm	yes	yes	Black
5	6-32 x 0.195 inches	no	no	White
E	6-32 x 0.195 inches	yes	no	White
6	ISO M3 x 5mm	no	no	White
F	ISO M3 x 5mm	yes	no	White
7	6-32 x 0.195 inches	no	yes	White
G	6-32 x 0.195 inches	yes	yes	White
8	ISO M3 x 5mm	no	yes	White
H	ISO M3 x 5mm	yes	yes	White
9	6-32 x 0.195 inches	no	no	Gray
J	6-32 x 0.195 inches	yes	no	Gray
P	ISO M3 x 5mm	no	no	Gray
K	ISO M3 x 5mm	yes	no	Gray
Q	6-32 x 0.195 inches	no	yes	Gray
L	6-32 x 0.195 inches	yes	yes	Gray
U	ISO M3 x 5mm	no	yes	Gray
M	ISO M3 x 5mm	yes	yes	Gray

11. MAX. APPLICATION RATING

A 65VDC
D 250VAC
M ⁷ 80VDC
4 ⁸ 80VDC / 250VAC

12. AGENCY APPROVAL

A Without approvals
C UL Recognized, CSA Accepted
E UL Recognized, CSA Accepted, TUV Certified
5 UL Recognized, CSA Accepted, TUV Certified, CCC Certified

Configure Complete Part Number >

Browse Standard Parts >

Ordering Scheme

Flat Rocker

Sample
Part Number

H 3 3 - B 0 - 10 - 450 - 1 B 1 - A C

Selection 1 2 3 4 5 6 7 8 9 10 11 12

1. SERIES

H

2. ACTUATOR 1

- 3 Single Color Vertical
- 4 Single Color Horizontal
- 7 Push-to-Reset, Single Color Vertical
- 8 Push-to-Reset, Single Color Horizontal

3. POLES 2

1 One 2 Two 3 Three

4. CIRCUIT

- A Switch Only (no coil) C⁴ Series Trip (voltage)
- B Series Trip (current) G⁴ Relay Trip (voltage)

5. AUXILIARY/ALARM SWITCH

- 0 without Aux Switch 3³ 0.110 Q.C. term
- 1³ 0.110 Q.C. term with gold contacts
- 2³ 0.110 Solder Lug 4³ 0.110 PC term

6. FREQUENCY & DELAY

- 03³ DC 50/60Hz, Switch Only 31 DC, 50/60Hz, Ultra Short
- 10 DC, Instantaneous 32 DC, 50/60Hz, Short
- 11 DC, Ultra Short 34 DC, 50/60Hz, Medium
- 12 DC, Short 36 DC, 50/60Hz, Long
- 14 DC, Medium 42⁴ 50/60 Hz High-inrush Short
- 16 DC, Long 44⁴ 50/60 Hz High-inrush Medium
- 20 50/60 Hz Instantaneous 46⁴ 50/60 Hz High-inrush Long
- 21 50/60 Ultra Short 52⁴ DC High-inrush Short
- 22 50/60 Hz Short 54⁴ DC High-inrush Medium
- 24 50/60 Hz Medium 56⁴ DC High-inrush Long
- 26 50/60 Hz Long
- 30 DC, 50/60Hz, Instantaneous

7. CURRENT RATING (AMPERES)

CODE	AMPERES						
410	1.00	445	4.50	610	10.00	618	18.00
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420	2.00	465	6.50	612	12.00	625	25.00
522	2.25	470	7.00	712	12.50	630	30.00
425	2.50	475	7.50	613	13.00	632	32.00
527	2.75	480	8.00	614	14.00	635	35.00
430	3.00	485	8.50	615	15.00		
435	3.50	490	9.00	616	16.00		
440	4.00	495	9.50	617	17.00		

VOLTAGE RATING

CODE	RATING	TRIP VOLTS					
A06	6DC	5DC	A65	65DC	55DC	J65	65AC
A12	12DC	10DC	J06	6AC	5AC	K20	120AC
A18	18DC	15DC	J12	12AC	10AC	L40	240AC
A24	24DC	20DC	J18	18AC	15AC	B10	110DC
A32	32DC	25DC	J24	24AC	20AC	B20	120DC
A48	48DC	40DC	J48	48AC	40AC	X01	65AC

special
catalog #

8. TERMINAL

- 1 Push ON 0.250 Tab (Q.C.)
- 2 Screw 8-32 with upturned lugs
- 3 Screw 8-32 (bus type)
- A Screw M4 with upturned lugs
- B Screw M4 (bus type)
- Printed Circuitboard Terminals**
- L 90 Facing Left
- R 90 Facing Right
- S Straight
- T Straight, Long

9. ACTUATOR COLOR & LEGEND

Actuator Color	I-O	ON-OFF	Dual	Legend Color
White	A	B	1	Black
Black	C	D	2	White
Red	F	G	3	White
Green	H	J	4	White
Blue	K	L	5	White
Yellow	M	N	6	Black
Gray	P	Q	7	Black
Orange	R	S	8	Black

10. MOUNTING / BARRIERS

	MOUNTING STYLE Threaded Insert	BARRIERS	PUSH-TO-RESET	BRACKET COLOR
1	6-32 x 0.195 inches	no	no	Black
A	6-32 x 0.195 inches	yes	no	Black
2	ISO M3 x 5mm	no	no	Black
B	ISO M3 x 5mm	yes	no	Black
3	6-32 x 0.195 inches	no	yes	Black
C	6-32 x 0.195 inches	yes	yes	Black
4	ISO M3 x 5mm	no	yes	Black
D	ISO M3 x 5mm	yes	yes	Black
5	6-32 x 0.195 inches	no	no	White
E	6-32 x 0.195 inches	yes	no	White
6	ISO M3 x 5mm	no	no	White
F	ISO M3 x 5mm	yes	no	White
7	6-32 x 0.195 inches	no	yes	White
G	6-32 x 0.195 inches	yes	yes	White
8	ISO M3 x 5mm	no	yes	White
H	ISO M3 x 5mm	yes	yes	White
9	6-32 x 0.195 inches	no	no	Gray
J	6-32 x 0.195 inches	yes	no	Gray
P	ISO M3 x 5mm	no	no	Gray
K	ISO M3 x 5mm	yes	no	Gray
Q	6-32 x 0.195 inches	no	yes	Gray
L	6-32 x 0.195 inches	yes	yes	Gray
U	ISO M3 x 5mm	no	yes	Gray
M	ISO M3 x 5mm	yes	yes	Gray

11. MAX. APPLICATION RATING

- A 65VDC
- D 250VAC
- M⁷ 80VDC
- 4⁸ 80VDC / 250VAC

12. AGENCY APPROVAL

- A Without approvals
- C UL Recognized, CSA Accepted
- E UL Recognized, CSA Accepted, TUV Certified
- 5 UL Recognized, CSA Accepted, TUV Certified, CCC Certified

Notes:

- 1 Push-To-Reset actuator shave OFF portion of rocker shrouded
- 2 Standard multipole units have all poles identical, except when specifying auxiliary switch
- 3 Auxiliary switch available on Series Trip and Switch Only circuits to 32A. On multipole units, only one auxiliary switch is normally supplied, mounted in extreme right pole
- 4 Separate Pole Type Voltage Coils not rated for continuous duty. Available only with delay code 10 & 20. Only Available with Agency code C.
- 5 For other current ratings, consult factory.
- 6 On Visi-Rocker, Visi portion of rocker cannot be the same color as the bezel. Remainder of rocker same color as bezel.
- 7 26-35A Polarity sensitive, only available as 1 pole unit.
- 8 Voltage code 4 available to 25A max.

Configure Complete Part Number >

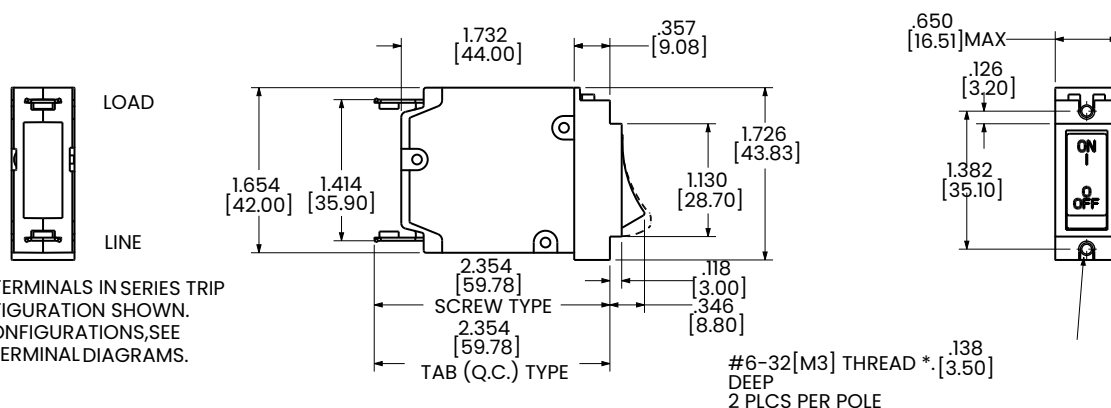
Browse Standard Parts >

Dimensional Specs Curved Rocker

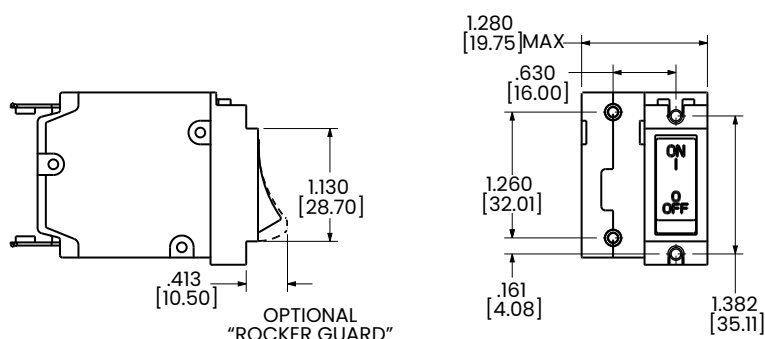
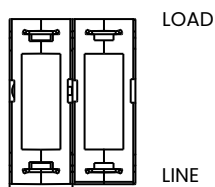
inches [millimeters]

1-POLE (HJ1)

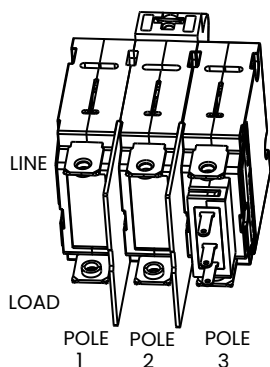
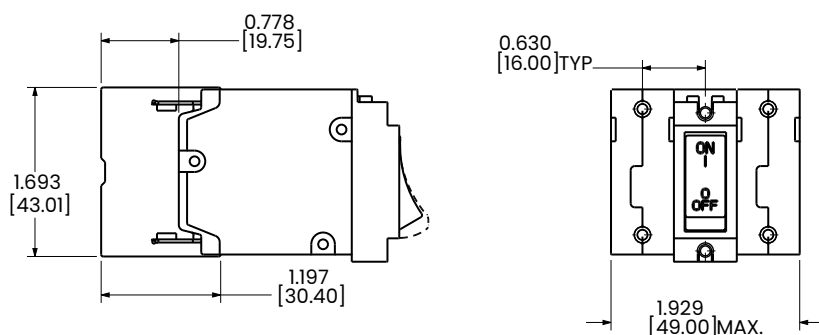
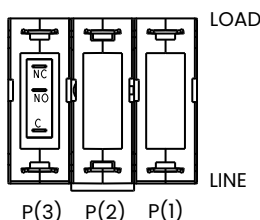
SCREW TYPE TERMINALS IN SERIES TRIP
CIRCUIT CONFIGURATION SHOWN.
FOR OTHER CONFIGURATIONS, SEE
CIRCUIT AND TERMINAL DIAGRAMS.



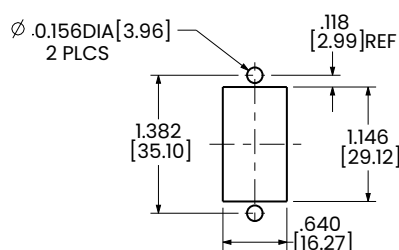
2-POLE (HJ2)



3-POLE (HJ3)



MULTI-POLE IDENTIFICATION SCHEME
AS VIEWED FROM TERMINAL END OF BREAKER.



PANEL CUTOUT DETAIL
TOLERANCES $\pm .005$ [$\pm .12$]
UNLESS OTHERWISE SPECIFIED

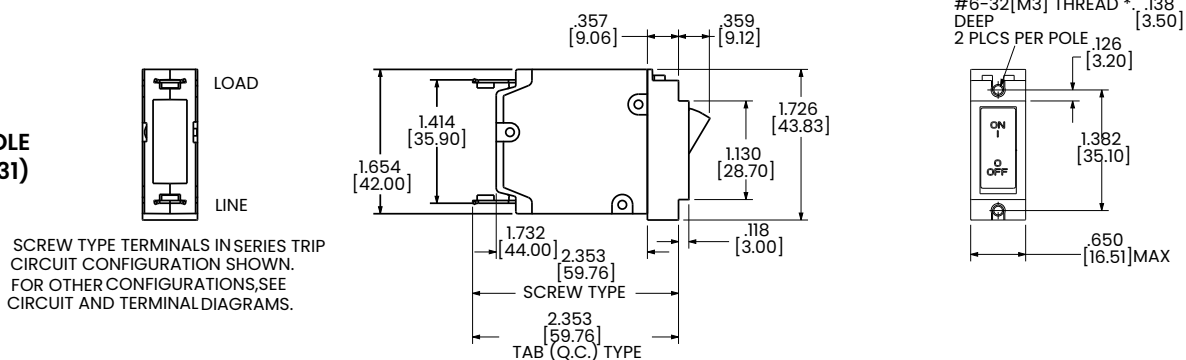
Notes:

1 Tolerance $\pm .020$ [$\pm .51$] unless otherwise specified.

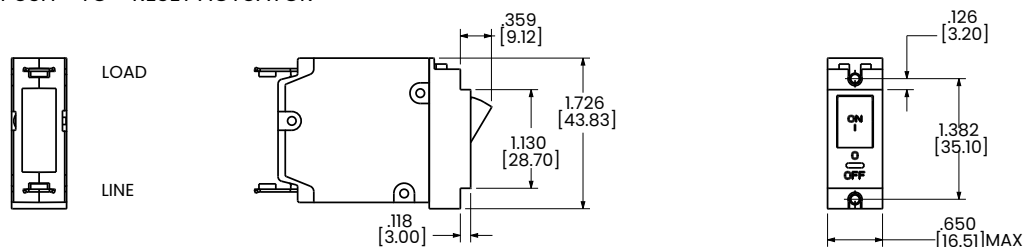
Dimensional Specs Flat Rocker

inches [millimeters]

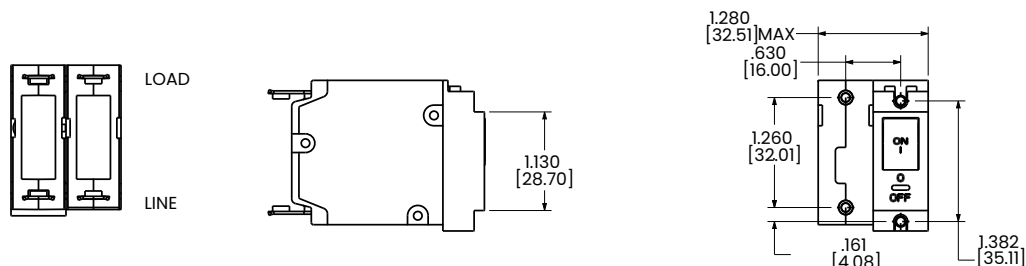
1-POLE (H31)



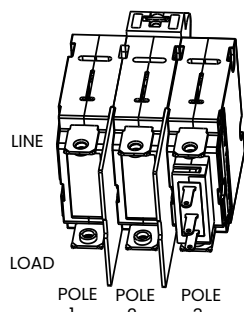
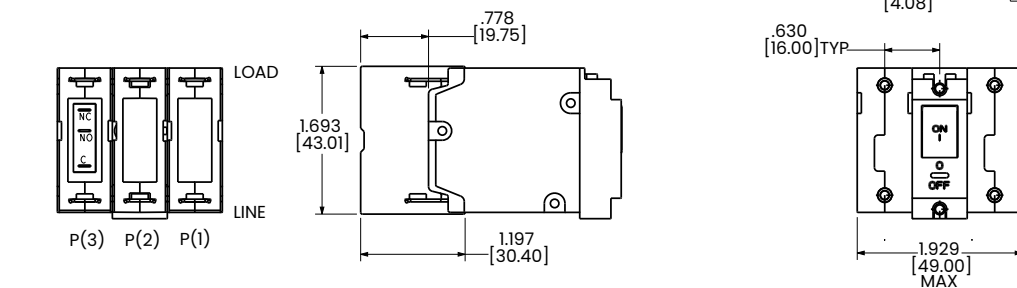
1-POLE (H71)



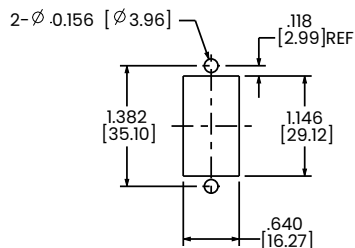
2-POLE (H72)



3-POLE (HJ3)



MULTI-POLE IDENTIFICATION SCHEME
AS VIEWED FROM TERMINAL END OF BREAKER.



PANEL CUTOUT DETAIL
TOLERANCES $\pm$.005 [$\pm$.12]
UNLESS OTHERWISE SPECIFIED

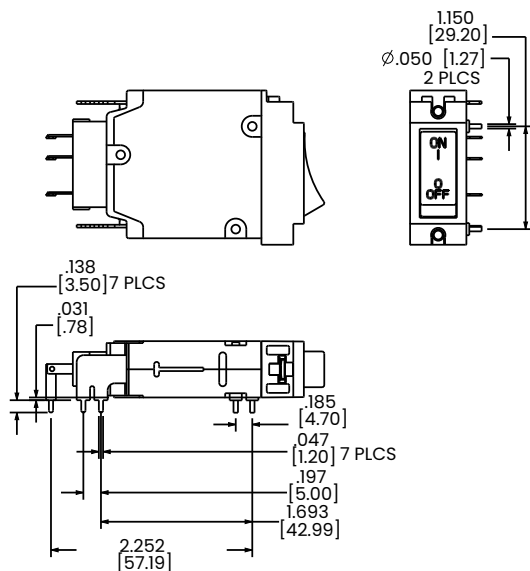
Notes:
1 Tolerance $\pm$.020 [$\pm$.51] unless otherwise specified.

PC Terminal Diagrams

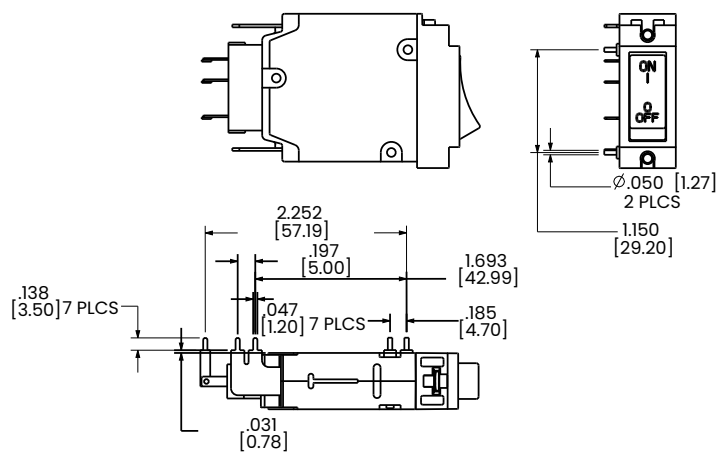
Curved and Flat Rocker

inches [millimeters]

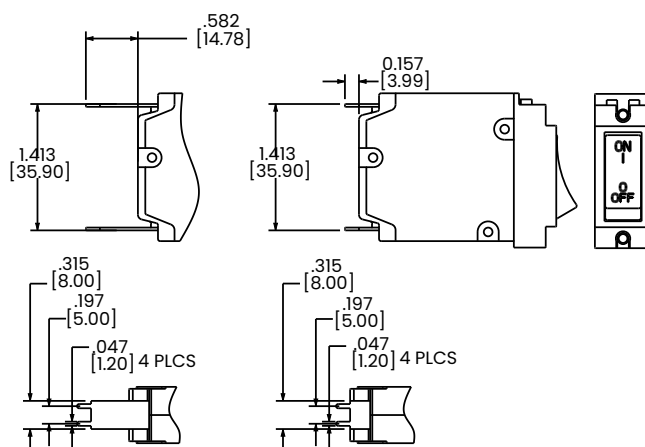
**PRINTED CIRCUIT BOARD
MOUNTING TERMINAL CODE R**



**PRINTED CIRCUIT BOARD
MOUNTING TERMINAL CODE L**



**PRINTED CIRCUIT BOARD MOUNTING
TERMINAL CODE S & T**



P.C. TERMINAL T

P.C. TERMINAL S

Notes:

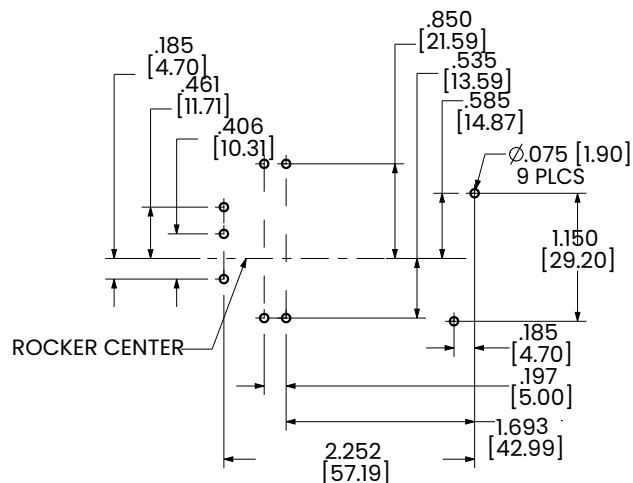
1 Tolerance $\pm .020$ [.51] unless otherwise specified.

PC Terminal Diagrams

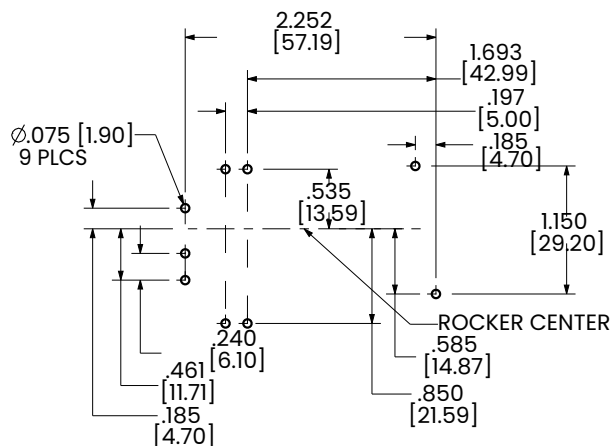
Curved and Flat Rocker

inches [millimeters]

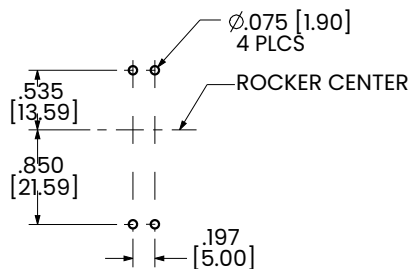
**P.C. FOOT PRINT
FOR TERMINAL CODE R**



**P.C. FOOT PRINT
FOR TERMINAL CODE L**



**P.C. FOOT PRINT
FOR TERMINAL CODE S & T**



Notes:
1 Tolerance $\pm .020$ [.51] unless otherwise specified.

Circuit & Terminal Diagram

inches [millimeters]

HANDLE POSITION VS. AUX SWITCH MODE		
STANDARD C/B		
CIRCUIT BREAKER MODE	HANDLE POSITION	AUX. SWITCH MODE
OFF		
ON		
ELECTRICAL TRIP		

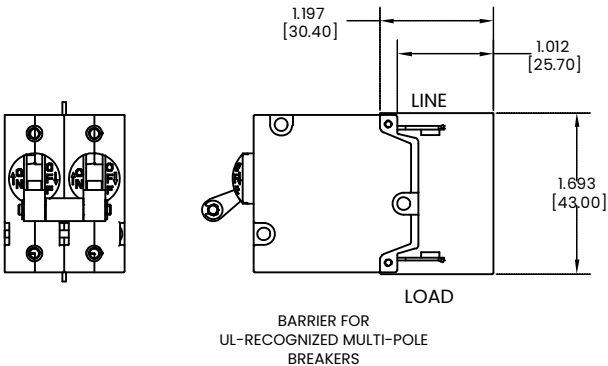
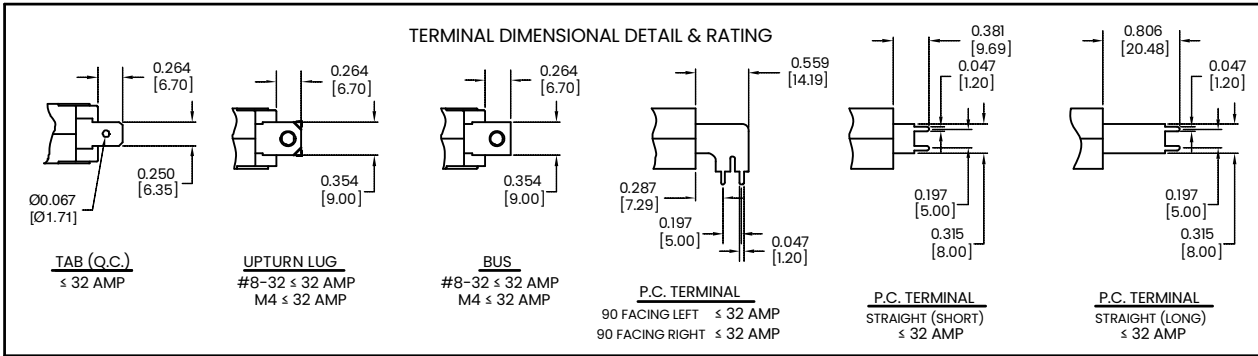
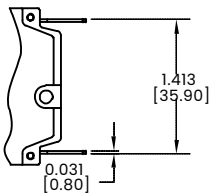
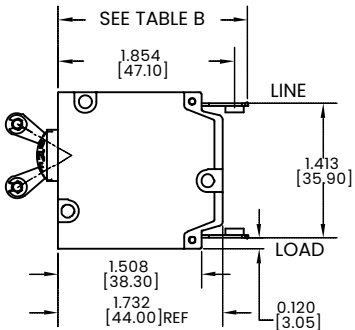


TABLE A TIGHTENING TORQUE SPECIFICATIONS	
THREAD SIZE	TORQUE
#6-32 & M3 MOUNTING HARDWARE	7-9 IN-LBS [0.8-1.0 NM]
#8-32 & M4 THREAD TERMINAL SCREW	12-15 IN-LBS [1.4-1.7 NM]

TABLE B		
TERMINAL DESCRIPTION		DEPTH BEHIND PANEL
MAIN	TAB (Q.C.)	1.996 [50.70]
	SCREW TYPE	1.996 [50.70]
AUX. SWITCH*	.110 TAB (Q.C.)	2.467 [62.67]
	SOLDER TYPE	2.252 [57.19]



* AVAILABLE ON SERIES TRIP AND SWITCH ONLY CIRCUITS.
WHEN CALLED FOR ON MULTI-POLE UNITS, ONLY ONE AUX. SWITCH IS NORMALLY SUPPLIED, AS SHOWN IN MULTI-POLE IDENTIFICATION SCHEME.

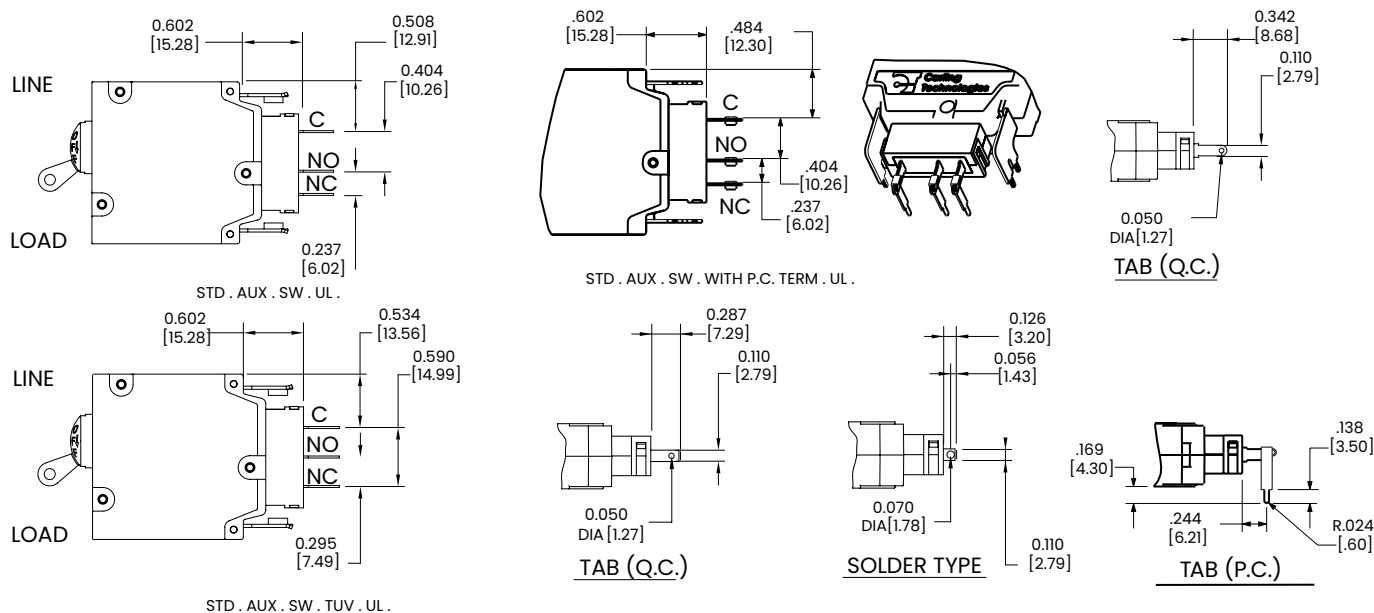
1. ALL DIMENSIONS ARE IN INCHES [mm]
2. TOLERANCE ±.020 [.51]
UNLESS OTHERWISE SPECIFIED.

Circuit & Terminal Diagram

inches [millimeters]

CIRCUIT BREAKER PROFILE	CIRCUIT SCHEMATIC		CIRCUIT SCHEMATIC	
	ANSI	CIRCUIT CODE	ANSI	CIRCUIT CODE
2 TERMINALS	SWITCH ONLY (NO COIL)	AUX SWITCH CODE	SERIES TRIP	AUX SWITCH CODE
		A 0		B C 0
5 TERMINALS	SWITCH ONLY (NO COIL) WITH AUXILIARY SWITCH	A 1 2 3 4	SERIES TRIP WITH AUXILIARY	B C 1 2 3 4
3 TERMINALS	SHUNT TRIP	D E 0		
4 TERMINALS	RELAY TRIP	F G 0		

AUXILIARY SWITCH TERMINAL DETAIL



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[H82B024620B2DDC](#) [H82B024620S2DDC](#) [HB2B024630BC2DC](#) [HB3B024630A2ADC](#) [HJ2B024612AG4D5](#)
[HA1B012610R22ME](#) [HA1B024620321DE](#) [HA1B0346101214E](#) [HA1B0346201214E](#) [HA1B0346251214E](#)
[HA1B0444201B2D5](#) [HA1B0444601B2D5](#) [HA2B022450221DE](#) [HA2B022610221DE](#) [HA2B026620A22DE](#)
[HB2B022625121DE](#) [HJ1B0426321G1DE](#) [HK1B0146303F1MC](#) [HK1B0206251G2DC](#) [HA1B0124252B3AC](#)
[HA1B012460A22MC](#) [HA1B014460122AC](#) [HA1B014610122AC](#) [HA1B014612122A5](#) [HA1B014615122AC](#)
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