# A-Series Circuit Breaker RECESSED PADDLE ACTUATOR & ILLUMINATED POWER STATUS LED INDICATOR



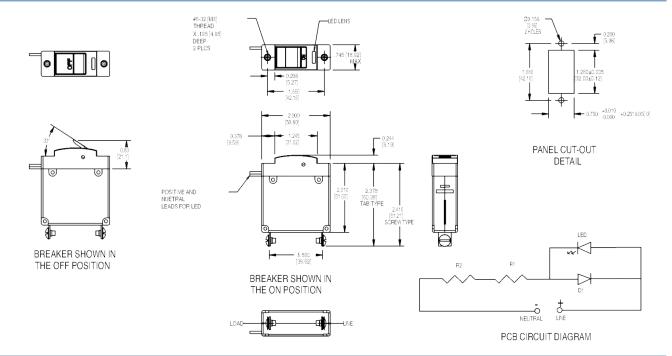
Carling Technologies' new A-Series breaker is a circuit protector & indicator light in one compact package!

Carling Technologies is pleased to introduce the latest addition to our A-Series line of hydraulic/magnetic circuit breakers.

Designed for an industry standard mounting cut out, the A-Series breaker with recessed paddle actuator and illuminated power status LED indicator is a circuit protector and indicator in one compact package. This combodevice eliminates the need for both a circuit breaker and an indicator light. By using this multipurpose product, wiring and assembly costs are greatly reduced, while at the same time, valuable panel space is saved.

Compact in size and well known for its proven reliability, the A-Series utilizes the hydraulic magnetic principle, which provides precise operation and performance even when exposed to extremely hot and/or cold application environments.

# **Dimensional Specifications in. [mm.]:**



# **Key Features/Specifications:**

- · Eliminate inadvertent turn OFF of breakers
- Optional dependent or independent switched power status illumination
- Optional 120VAC or 12-80 VDC illumination indicator wiring configuration
- Choice of LED colors
- · Choice of paddle actuator colors/legends

- 1-3 poles
- 0.02 50 amps
- Up to 120/240 VAC or 80 VDC
- Choice of time delays
- Choice of terminals
- UL, CSA, TUV



# A-Series Recessed Paddle Actuator & Illuminated Power Status LED Indicator - Ordering Scheme



1 SERIES			
Α			

### 2 ACTUATOR <sup>1</sup>

50/60Hz Long

Single Color Recessed Paddle Actuator, Vertical legend (1 per unit)

10	ne	2 Two		3 Three
4 CI	RCUIT		F	Relay Trip (Current)
Α	Switch Only (No Coil)	1	G	Relay Trip (Voltage)
В	Series Trip (Current)		Н	Dual Coil with Shunt Trip
С	Series Trip (Voltage)			Voltage Coil
D	Shunt Trip (Current)		K	Dual Coil with Relay Trip
E	Shunt Trip (Voltage)			Voltage Coil

5	AUXILIARY SWITCH	5	S.P.S.T., 0.093 Q.C.
0	w/o Aux Switch		Term.(Gold Contacts)
1	S.P.D.T., 0.093 Q.C. Term.	6	S.P.S.T., 0.139 Solder Lug
2	S.P.D.T., 0.110 Q.C. Term.	7	S.P.S.T., 0.110 Q.C.
3	S.P.D.T., 0.139 Solder Lug		Term.(Gold Contacts)
4	S.P.D.T., 0.110 Q.C. Term.	8	S.P.S.T., 0.187 Q.C. Term.
	(Gold Contacts)	9	S.P.D.T., 0.187 Q.C. Term.

6 FREQUENCY & DELAY		50/60Hz Short, Hi-Inrush
DC 50/60Hz, Switch Only	44	50/60Hz Medium, Hi-Inrush
DC Instantaneous	46	50/60Hz Long, Hi-Inrush
DC Ultra Short	52	DC, Short, Hi-Inrush
DC Short	54	DC, Medium, Hi-Inrush
DC Medium	56	DC, Long, Hi-Inrush
DC Long		_
50/60Hz Instantaneous		
50/60Hz Ultra Short		
50/60Hz Short		
50/60Hz Medium		
	DC 50/60Hz, Switch Only DC Instantaneous DC Ultra Short DC Short DC Medium DC Long 50/60Hz Instantaneous 50/60Hz Ultra Short 50/60Hz Short	DC 50/60Hz, Switch Only DC Instantaneous 46 DC Ultra Short 52 DC Short 54 DC Medium DC Long 50/60Hz Instantaneous 50/60Hz Ultra Short 50/60Hz Short

7 CUF	RRENT RAT	ΓING (AM	PERES)				
220	0.200	517	1.750	710	10.500	650	50.000
225	0.250	420	2.000	611	11.000		
230	0.300	522	2.250	711	11.500		
235	0.350	527	2.750	612	12.000		
240	0.400	430	3.000	712	12.500		
245	0.450	435	3.500	613	13.000		
250	0.500	440	4.000	614	14.000		
255	0.550	445	4.500	615	15.000		
260	0.600	450	5.000	616	16.000		
265	0.650	455	5.500	617	17.000		
270	0.700	460	6.000	618	18.000		
275	0.750	465	6.500	620	20.000		
280	0.800	470	7.000	622	22.000		
285	0.850	475	7.500	624	24.000		
290	0.900	480	8.000	625	25.000		
295	0.950	485	8.500	630	30.000		
410	1.000	490	9.000	635	35.000		
512	1.250	495	9.500	640	40.000		
415	1.500	610	10.000	645	45.000		
ORV	OLTAGE CO	DIL (NOM	NAL RAT	ED VOLTA	GE)		
A06	6 DC	A32	32 DC	J12	12 AC	J65	65 AC
A12	12 DC		48 DC				120 AC
A18	18 DC	A65	65 DC	J24	24 AC	L40	240 AC

A24

24 DC

All standard catalog numbers are supplied with Vertical Legends. For Horizontal and other non-standard legends, choose "X" and order as special catalog number.

Dual = ON-OFFI-O legend.

OFF and/or "O" legends are on bracket and are only visible when the Paddle Actuator is in the off posi-

J48

48 AC

6 AC

Agency approvals pending. Not all approvals are available in all constructions. Consult factory for details.

### 8 TERMINAL

- Push-On 0.250 Tab (Q.C.) Screw 8-32 w/upturned lugs Screw 8-32 (Bus Type)
- Screw 10-32 w/upturned lugs
- Screw 10-32 (Bus Type) Screw 8-32 w/upturned lugs
- and 30° bend 7 Screw 8-32 (Bus Type) and 30° bend
- Screw 10-32 w/upturned lugs 8
- and 30° bend Screw 10-32 (Bus Type) and 30° bend
- Screw M5 w/upturned lugs Screw M4 w/upturned lugs

- Screw M4 (Bus Type) Screw M5 w/upturned lugs and 30° bend
- G Screw M5 (Bus Type)
- and 30° bend Screw M5 (Bus Type)
- 0.250 Q.C./ Solder Lug M6 Threaded Studs
- Printed Circuit Board Terminals
- Q Push-In Stud
- Screw M4 w/upturned lugs and  $30^{\circ}$  bend
- Push-On 0.110 Tab (Q.C.)
- Screw M4 (Bus Type) and 30° bend

# ACTUATOR COLOR & LEGENDS

Actuator Color	Marking			Marking Color
	I-O	ON-OFF	Dual <sup>2</sup>	
White	Α	В	1	Black
Black	С	D	2	White
Red	F	G	3	White
Green	н	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 STANDARD ROCKER BEZEL, Threaded Insert, 2	BARRIERS <i>per pole</i>
1 6-32 x 0.195 inches	no
A 6-32 X 0.195 inches (multi-pole units only)	yes
2 ISO M3 x 5mm	no
P ISO M2 v 5mm (multi pole unite only)	1/00

# 11 LAMP TYPE AND COLOR

- A Non-illuminated
- B Red LED
- C Green LED
- **D** Amber LED
- E Blue LED

## 12 LAMP VOLTAGE

- A Non-illuminated C 12 VDC
- **D** 24 VDC
- **E** 36 VDC
- **F** 48 VDC
- **G** 65 VDC
- H 80 VDC
- J 120 VAC

### 13 MAXIMUM APPLICATION RATING

- 120/240 VAC (available only on 2 0r 3-pole units)
- М 80 VDC

# 14 AGENCY APPROVAL<sup>4</sup> A W/O Approvals

- c
- UL Recognized and CSA Accepted
- TUV Certified, UL Recognized and CSA Accepted
- UL Rec. STD 1077, UL Rec 1500 (Ignition Protected) & CSA
- UL 489A & TUV