



**Carling Technologies®**

Innovative Designs. Powerful Solutions.

# MARINE

**SWITCHES, CONTROLS, CIRCUIT BREAKERS AND ELCI/GFCIs**

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**SELECTOR GUIDE**

## SEALED ROCKER SWITCHES

 <b>HR-Series</b>	 <b>V-Series</b>	 <b>W-Series</b>	
1, 2	1, 2	1, 2	<b>Poles</b>
IP68; 20A 12V	IP66/68; up to 20/15A 12/24VDC 15A 125VAC 10A 250VAC	IP68 including connector; up to 10A 24VDC	<b>Ratings</b>
Laser-Etched Rocker	Rocker, Paddle, Locking Rocker	Bezel-Less Rocker, Paddle & Locking Rocker	<b>Actuator</b>
.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	<b>Mounting Hole Specifications</b>
.110 tabs	.250 tabs solder lug wire leads	.110 tabs	<b>Termination</b>
LED	incandescent, LED, neon	LED	<b>Illumination</b>
n/a	UL, CSA	n/a	<b>Approvals</b>

## ROTARY SWITCH

 <b>V-Rotary</b>	
1, 2	<b>Poles</b>
up to 15A 24VDC 20A 12VDC	<b>Ratings</b>
IP67, ergonomic knob	<b>Sealing / Actuator</b>
.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	<b>Mounting Hole Specifications</b>
solder lug .250 tabs wire leads	<b>Termination</b>
incandescent, LED	<b>Illumination</b>
pending	<b>Approvals</b>


## TOGGLE SWITCHES

 <b>LT-Series</b>	 <b>F / G / H / I</b>	
1, 2	1, 2, 3, 4	<b>Poles</b>
up to 15A 125VAC 10A 250VAC 15A 12-28VDC	up to 20A 125VAC 20A 277VAC 2 HP 250VAC	<b>Ratings</b>
paddle, toggle (bat)	paddle, toggle (bat)	<b>Actuator</b>
.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	<b>Mounting Hole Specifications</b>
.187 tabs solder lug .250 tabs screw terms wire leads PC terms	.187 tabs solder lug .250 tabs screw terms wire leads PC terms	<b>Termination</b>
incandescent, neon	n/a	<b>Illumination</b>
n/a	UL, CSA, VDE	<b>Approvals</b>


## BATTERY DISCONNECT

 <b>NEW</b>	 <b>NEW</b>	
<b>BD-Series</b>	<b>BD1-Series</b>	
1	1	<b>Poles</b>
100-300 Amps 12VDC/24VDC	250 Amps 12VDC/24VDC	<b>Ratings</b>
ergonomic knob	ergonomic knob; removable option available	<b>Actuator</b>
M8 Bolt and Nut	M6/M7 Bolt and Nut	<b>Mounting Hole Specifications</b>
M10 Stud M14 Stud	M10 Stud; 19 and 27mm length	<b>Termination</b>

## USB CHARGER

	
<b>V-Charger</b>	
1	<b>Poles</b>
12V/24VDC	<b>Ratings</b>
sealed spring-loaded access doors; curved or square	<b>Actuator</b>
.830" x 1.450" [21.08mm x 36.83mm] snap-in mount	<b>Mounting Hole Specifications</b>
.250 tabs	<b>Termination</b>
LED	<b>Illumination</b>
n/a	<b>Approvals</b>

## PUSHBUTTON SWITCHES

	
<b>P26 / P27</b>	
1	<b>Poles</b>
up to 6A 125VAC 3A 277VAC	<b>Ratings</b>
.500" dia [12.7mm] bushing mount	<b>Mounting Hole Specifications</b>
.250 tabs solder lug wire leads	<b>Termination</b>
UL, CSA	<b>Approvals</b>

\*Options and approvals shown may apply to specific construction combinations only, consult factory for clarification.

## HYDRAULIC-MAGNETIC CIRCUIT PROTECTION

 <p><b>M-Series</b></p>	 <p><b>A-Series</b></p>	 <p><b>B-Series</b></p>	
1-2	1-6 (handle) 1-3 (rocker/toggle)	1-6	<b>Poles</b>
rocker (curved & flat), visi-rocker, paddle, baton, push-to-reset & push-pull pushbuttons	sealed metal toggle, handle, rocker, paddle	handle, rocker	<b>Actuator Style</b>
AC/DC: instantaneous, short, medium, hi-inrush	AC, DC, AC/DC: instantaneous, ultra-short, short, medium & long AC, DC: high inrush-short, medium & long	AC, DC, AC/DC: instantaneous, ultra-short, short, medium & long AC, DC: high inrush-short, medium & long	<b>Available Delays</b>
<b>1 Pole:</b> 0.02-15FLA@32VDC, 125VAC 15.1-25GPA@32VDC, 125VAC 0.02-12FLA@250VAC 0.02-7.5GPA@50VDC 0.02-30GPA@65VDC, 80VDC <b>2 Pole:</b> 0.02-15FLA@65VDC, 250VAC 15.1-25GPA@65VDC, 250VAC <b>Parallel Pole:</b> 31-50GPA@80VDC	0.02-30A@ 277VAC, 80VDC 31.0-50A@ 125/250VAC, 65VDC	0.02-30A@ 277VAC, 80VDC  0.02-30A@ 125/250VAC, 65VDC	<b>Max Current &amp; Voltage Ratings</b>
<b>1 Pole:</b> 1,000A@32VDC 1,000A@125VAC <b>2 Pole:</b> 1,000A@65VDC 1,000A@250VAC <b>Parallel Pole:</b> 600A@80VDC	7500A@80VDC, UL only 3000A @ 120/250VAC, UL only 5000A@277VAC, with fuse backup	7500A @ 80 VDC, UL only 3000A @ 125/250VAC, UL only 5000A @ 277VAC, with fuse backup	<b>Max Interrupting Capacity</b>
7A@250VAC 0.1A@125VAC (gold contacts) 7A (res.)@28VDC 4A (ind.)@28VDC 0.25A@80VDC	10.1A@125VAC 0.1A@125VAC (gold contacts) 0.5A@65VDC 0.1A@80VDC	10.1A@125 VAC 0.1A@125 VAC (gold contacts), 0.5A@65 VDC 0.1A@80 VDC	<b>Auxiliary Switch Rating</b>
series and switch only parallel pole	series, shunt, relay, switch only, series with remote shutdown, relay & shunt trip dual coil	series, shunt, relay, switch only, series with remote shutdown, relay & shunt trip dual coil, mid-trip with alarm switch	<b>Available Circuits</b>
.250" QC tabs, 8-32 screw with upturned lugs, 8-32, 10-32 screw (bus type), push in stud terminals	.250" QC tabs 8-32 & 10-32 screw (& metric), PCB	.250" QC tabs, 8-32 & 10-32 screw (& metric), PCB	<b>Terminal Options</b>
snap-in front panel threaded bushing	threaded inserts: front panel snap-in	threaded inserts: front panel snap-in	<b>Mounting Method</b>
UL1077, CSA, VDE, TUV, UL489A listed	UL1077, CSA, VDE, TUV (rocker), UL1500, UL489A	UL1077, CSA, VDE, TUV; UL1500, UL489, UL489A	<b>Agency Approvals</b>

## HYDRAULIC-MAGNETIC CIRCUIT PROTECTION

 <p><b>J-Series</b></p>	 <p><b>C-Series</b></p>	 <p><b>E-Series</b></p>	
1-3	1-6 (handle) 1-3 (rocker/toggle)	1-6	<b>Poles</b>
curved rocker, flat rocker, push-to-reset guard	sealed metal toggle, handle, rocker	handle	<b>Actuator Style</b>
AC, ultrashort, shot, medium, long, high inrush	AC, DC, AC/DC: instant, ultrashort, short, medium & long AC, DC: high inrush-short, medium & long	AC, DC, AC/DC: instant, short, medium & long, high inrush-short, medium & long	<b>Available Delays</b>
1-20A@ 240 VAC	<b>UL Listed:</b> 0.02-250A@80VDC 0.1-100A@125VDC 0.02-70A@120VAC 0.02-20A@240VAC <b>UL Recognized:</b> 0.02-30A@ 480WYE/277VAC 2 Pole, 1Ø; 3 Pole, 3Ø 0.02-50A@277VAC 0.02-100A@ 250VAC, 80VDC 0.02-100A@ 120/240VAC, 65VDC	<b>UL Listed</b> 0.02-100A@ 240VAC, 80VDC, 125VDC <b>UL Recognized</b> 0.02-100A @ 277VAC, 160VDC, 1 pole 0.02-100A @600VAC, 2 Pole 1Ø 3 pole 3Ø 0.02-120A @125VDC, 1 pole	<b>Max Current &amp; Voltage Ratings</b>
10KAK @ 240 VAC	<b>UL Listed:</b> 50000A@80VDC, 1P only 10000A@120VAC 5000A@125VDC/240VAC <b>UL Recognized:</b> 7500A@80VDC 3000A@125/250VAC, UL only 5000A@250VAC listed construction 5000A@480WYE/277VAC with fuse backup	<b>UL Listed</b> 50000A@80VDC 10000A@125VDC & 240VAC-5KA <b>UL Recognized</b> 5000A@125VDC 5000A@600VAC, without fuse backup 10000A@600VAC, with fuse backup	<b>Max Interrupting Capacity</b>
n/a	10.1A@250 VAC 0.1A@125 VAC (gold contacts), 0.5A@80 VDC	10.1A@250VAC 1.0A@65VDC 0.1A@80VDC	<b>Auxiliary Switch Rating</b>
series trip	series, shunt, relay, switch only, series with remote shutdown, relay & shunt trip dual coil, mid-trip with alarm switch	series, shunt, relay, switch only, series with remote shutdown	<b>Available Circuits</b>
8/32, 10/32, M4, M5	10-32 stud, 1/4-20 stud, 10-32 screw with saddle clamp, 7/16 clip & push-In	10-32 stud, 1/4-20 stud 0-32 screw, 1/4-20 screw, box wire connector	<b>Terminal Options</b>
threaded inserts	threaded inserts	rear or front panel	<b>Mounting Method</b>
UL489, cULus, TUV	UL1077, CSA, VDE, TUV, UL1500, UL489, UL489A	UL1077, CSA, VDE, UL1500, UL489	<b>Agency Approvals</b>

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## ELCI/GFCI CIRCUIT PROTECTION



**PB-Series**



**PC-Series**

1-3 poles, 3rd pole switched neutral	1-poles (1 circuit breaker + 1 GFCI sensor module), 120V, 2-pole (2 circuit breakers + 1 GFCI sensor module), 120/240V, or 120V with neutral break 2-pole (2 circuit breakers + 1 GFCI sensor module), 240VAC, 3-pole 120/240V with neutral break (sensor module has 2 pole width)	<b>Poles</b>
handle, rocker, flat rocker	handle, rocker, flat rocker, push-to-reset	<b>Actuator Style</b>
30mA & 6mA	30mA & 6mA	<b>Leakage Current Trip Level</b>
<b>For 30mA leakage trip:</b> ≤ 22.2mA, shall not trip 30mA, shall trip within .10 seconds, complying with UL-1053 & ABYC E11. <b>For 6mA leakage trip:</b> ≤25ms	<b>For 30mA leakage trip:</b> ≤ 22.2mA, shall not trip 30mA, shall trip within .10 seconds, complying with UL-1053 & ABYC E11. <b>For 6mA leakage trip:</b> ≤25ms	<b>Leakage Current Trip Time</b>
0.10-30A@120/240VAC	0.10-50A@120/240VAC - 240VAC	<b>Max Current &amp; Voltage Ratings</b>
5,000A	5,000A	<b>Max Interrupting Capacity</b>
series trip	series trip	<b>Available Circuits</b>
.250" tabs, 8-32, 10-32, M4,M5 screw with upturned lugs, 8-32, 10-32, M4,M5 screw, bus type	10-32 threaded stud	<b>Termination</b>
front panel	front panel	<b>Mounting Method</b>
-35° C to +65° C	-35° C to +65° C	<b>Operating Temperature</b>
UL 489, UL 1077, UL 1500	UL 943 & CSA Approved, UL 1053, UL 1500	<b>Agency Approvals</b>

## THERMAL CIRCUIT PROTECTION



**CMB-Series**



**CLB-Series**

1	1	<b>Poles</b>
pushbutton	pushbutton	<b>Actuator</b>
3 to 20A, 125-250VAC, 32VDC	3 to 60A, 125-250VAC, 32VDC	<b>Max Current &amp; Voltage Ratings</b>
2500A@32 VDC	2500A	<b>Max Interrupting Capacity</b>
series trip manual reset	series trip manual reset	<b>Available Circuits</b>
.250 tab with 90° bend screw terminal screw term with 90° bend	.250 tab .250 tab with 90° bend screw terminal screw term with 90° bend	<b>Termination</b>
threaded bushing, front panel snap-in	threaded bushing, front panel snap-in	<b>Mounting Method</b>
UL, CUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine	UL, CUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine	<b>Approvals</b>

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