



**Carling Technologies®**

Innovative Designs. Powerful Solutions.

# INDUSTRIAL AUTOMATION




## CIRCUIT PROTECTION AND SWITCHES

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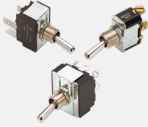




SELECTOR GUIDE

## CIRCUIT PROTECTION

					
A-Series	C-Series	G-Series	E-Series	F-Series	
1-6 (handle) 1-3 (rocker/toggle)	1-6 (handle) 1-3 (rocker/toggle)	1-3 (UL Listed) 1-4 (UL Recognized)	1-6	1-3	<b>Poles</b>
sealed metal toggle, handle, rocker, paddle	sealed metal toggle, handle, rocker	handle	handle	handle	<b>Actuator Style</b>
AC, DC, AC/DC: instantaneous, ultra-short, short, medium & long AC, DC: high inrush-short, medium & long	AC, DC, AC/DC: instant, ultrashort, short, medium & long AC, DC: high inrush-short, medium & long	AC, DC: instantaneous, ultrashort, short, medium & long AC, DC: high inrush- short, medium & long	AC, DC, AC/DC: instant, short, medium & long, high inrush-short, medium & long	AC, DC: short, medium & long	<b>Available Delays</b>
0.02-30A@ 277VAC, 80VDC 31.0-50A@ 125/250VAC, 65VDC	<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> 1-50A@80VDC 1-50A@125VDC 1-50A@120VAC 1-50A@120/240VAC 1-25A@240VAC  <b>UL Recognized:</b> 0.1-63A@80VDC 0.1-63A@240VAC 0.1-63A@480VAC	<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>UL489 Listed:</b> 50-250A@125VDC 100-250A@120/240VAC 100-250A@277VAC 100-250A@208Y/120, 3ØVAC  <b>UL489A Listed</b> 250-700A@125VDC	<b>Max Current &amp; Voltage Ratings</b>
7500A@80VDC, UL only 3000A@120/250VAC, UL only 5000A@277VAC, with fuse backup	<b>UL Listed:</b> 50000A@80VDC, 1 pole 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> 5000A@80VDC 5000A@125VDC 5000A@120VAC 5000A@120/240VAC 5000A@240VAC <b>UL Recognized:</b> 3000A@80VDC 3000A@240VAC 1500A@480VAC	<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	50000A@125VDC 10000A@120/240, 277, 208Y/120VAC	<b>Max Interrupting Capacity</b>
10.1A@125VAC 0.1A@125VAC (gold contacts) 0.5A@65VDC 0.1A@80VDC	10.1A@250 VAC 0.1A@125 VAC (gold contacts), 0.5A@80 VDC	3A@125VAC 2A@30VDC	10.1A@250VAC 1.0A@65VDC 0.1A@80VDC	10.1A@250VAC 0.5A@65VDC 0.1A@80VDC	<b>Auxiliary Switch Rating</b>
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	series, switch only	series, shunt,relay, switch only, series with remote shutdown	series & switch only with or without metering shunt	<b>Available Circuits</b>
.250" QC tabs 8-32 & 10-32 screw (& metric), PCB	10-32 stud, 1/4-20 stud, 10-32 screw with saddle clamp, 7/16 clip & push-In	recessed wire-ready, pressure plate type screw terminals	10-32 stud, 1/4-20 stud 0-32 screw, 1/4- 20 screw, box wire connector	3/8-16 stud, 3/8-16 screw & box wire connector	<b>Terminal Options</b>
threaded inserts: front panel snap-in	threaded inserts	rear mounted on DIN rail	rear or front panel	rear or front panel	<b>Mounting Method</b>
UL1077, CSA, VDE, TUV (rocker), UL1500, UL489A	UL1077, CSA, VDE, TUV, UL1500, UL489, UL489A	UL1077, cUL, TUV, UL489	UL1077, CSA, VDE, UL1500, UL489	cUL, TUV, UL489, UL489A	<b>Agency Approvals</b>

Manufacturer reserves the right to change product specifications without prior notice.

## TOGGLE SWITCHES

							
<b>ST-Series</b>	<b>LT-Series</b>	<b>F / G / H / I</b>	<b>C / D</b>	<b>110-Series</b>	<b>DK / EK</b>	<b>MAAOA / 215</b>	
1, 2	1, 2	1, 2, 3, 4	1	1, 2	1, 2	1	<b>Poles</b>
10A 250VAC 15A 125VAC 16A 12/24VDC	up to 15A 125VAC 10A 250VAC 15A 12-28VDC	up to 20A 125VAC 20A 277VAC 2 HP 250VAC	up to 20A 125VAC 10A 250VAC	up to 6A 125VAC/ DC 3A 250VAC/ DC	up to 20A 125VAC/ DC 10A 250VAC/ DC	up to 20A 125VAC 10A 250VAC 1/2HP 125- 250VAC	<b>Ratings</b>
IP68, bat, paddle	paddle, toggle (bat)	paddle, toggle (bat)	paddle, toggle (bat)	toggle (bat), toggle (ball)	toggle (bat), toggle (ball)	toggle (bat)	<b>Actuator</b>
.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	.500" dia [12.7mm] bushing mount	.656" x 1.218" [16.66mm x 30.54mm] snap-in mount	<b>Mounting Hole Specifications</b>
.250 tabs Screw Terminals with cage clamps	.187 tabs solder lug .250 tabs screw terms wire leads PC terms	.187 tabs solder lug .250 tabs screw terms wire leads PC terms	solder lug .250 tabs screw terms wire leads	solder lug .250 tabs screw terms wire leads	screw terms	.250 tabs screw terms wire leads	<b>Termination</b>
n/a	incandescent, neon	n/a	n/a	n/a	n/a	n/a	<b>Illumination</b>
UL60079-15, cUL	n/a	UL, CSA, VDE	UL, CSA	UL, CSA	UL, CSA	UL, CSA	<b>Approvals</b>

## ROCKER SWITCHES

		
<b>V-Series</b>	<b>TIG / LTIG / TIH / LTIH / TIL / LTIL / TII / LS</b>	
1, 2	1, 2, 3, 4	<b>Poles</b>
IP66/68; up to 20/15A 12/24VDC 15A 125VAC 10A 250VAC	up to 15A 125VAC 10A 250VAC	<b>Ratings</b>
Rocker, Paddle, Locking Rocker	rocker, paddle	<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 screw mount	<b>Mounting Hole Specifications</b>
.250 tabs solder lug wire leads	.187 tab solder lug .250 tabs screw terms wire leads	<b>Termination</b>
incandescent, LED, neon	incandescent, neon	<b>Illumination</b>
UL, CSA	UL, CSA, VDE	<b>Approvals</b>

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

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