

INDUSTRIAL AUTOMATION AND CONTROLS

Circuit Protection & Switches



SELECTOR GUIDE

CIRCUIT PROTECTION



B-Series



C-Series



CX-Series

Poles	1-6	1-6 (handle) 1-3 (rocker & metal toggle)	1-2, + auxiliary switch pole
Actuator	handle rocker	sealed metal toggle handle rocker	handle, 1 per pole
Available Delays	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	DC: instant, ultrashort, short, medium & long
Max Current & Voltage Ratings	0.02-30A@277VAC, 80VDC 0.02-30A@125/250VAC, 65VDC	UL Listed: 0.02-250A@80VDC 0.1-100A@125VDC 0.02-70A@120VAC 0.02-20A@240VAC UL Recognized: 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	UL Recognized 0.2-115A@600VDC UL Listed 0.2-15A@250/500VDC 0.2-50A@205/410VDC
Max Interrupting Capacity	7500A@80 VDC, UL only 3000A@125/250VAC, UL only 5000A@277VAC, w/ fuse backup	UL Listed: 50000A@80VDC, 1 pole only 10000A@120VAC 5000A@125VDC/240VAC UL Recognized: 7500A@80VDC 3000A@125/250VAC, UL only 5000A@250VAC listed construction 5000A@480WYE/277VAC w/ fuse backup	UL Listed and UL Recognized up to 10,000 amps
Auxiliary Switch Rating	10.1A@125VAC 0.1A@125VAC (gold contacts) 0.5A@65VDC 0.1A@80VDC	10.1A@250VAC 0.1A@125VAC (gold contacts) 0.5A@80VDC	20A@80VDC (GO circuit)
Available Circuits	series, shunt, relay, switch only, series w/ remote shutdown, relay & shunt trip dual coil, mid-trip w/ alarm switch	series, shunt, relay, switch only, series w/ remote shutdown, relay & shunt trip dual coil, mid-trip w/ alarm switch	series trip
Termination	.250" QC tabs, 8-32 & 10-32 screw (& metric), PCB	10-32 stud, 1/4-20 stud, 10-32 screw w/ saddle clamp, 7/16 clip & push-In	10-32 or M5 screw terminals 1/4-20 or M6 threaded stud
Mounting Method	threaded inserts: front panel snap-in	threaded inserts	threaded insert: #6-32 UNC-2B, or M3X0.5- 6H B ISO (2 per pole)
Approvals	UL, CSA, VDE, TUV (rocker), UL1500, UL489, UL489A	UL, CSA, VDE, TUV, UL1500, UL489, UL489A	UL489, UL1077, TUV (EN60934-2)
Environmental Protection	MIL-PRF-55629 & MIL-STD-202 method 213, MIL-PRF-39019F when mounted in panel	MIL-PRF-55629 & MIL-STD-202 method 213	MIL-PRF-55629 & MIL-STD-202 method 213, MIL-PRF-39019F when mounted in panel
Operating Temperature	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C

CIRCUIT PROTECTION



E-Series



F-Series



G-Series

Poles	1-6	1-3	1-3 (UL Listed) 1-4 (UL Recognized)
Actuator	handle	handle	handle
Available Delays	AC, DC, AC/DC: instant, short, medium & long AC, DC, AC/DC: high inrush-short, medium & long	AC, DC: short, medium & long	AC, DC: instantaneous, ultrashort, short, medium & long AC, DC: high inrush-short, medium & long
Max Current & Voltage Ratings	UL Listed 0.02-100A@240VAC, 80VDC, 125VDC UL Recognized 0.02-100A@277VAC, 160VDC, 1 pole 0.02-100A@600VAC, 2 Pole 1Ø, 3 pole 3Ø 0.02-120A@125VDC, 1 pole	UL489 Listed: 50-250A@125VDC 100-250A@120/240VAC 100-250A@277VAC 100-250A@208Y/120, 3ØVAC UL489A Listed 250-700A@125VDC	UL Listed: 1-50A@80VDC 1-50A@125VDC 1-50A@120VAC 1-50A@120/240VAC 1-25A@240VAC UL Recognized: 0.1-63A@80VDC 0.1-63A@240VAC 0.1-63A@480VAC
Max Interrupting Capacity	UL Listed 50000A@80VDC 10000A@125VDC & 240VAC-5KA UL Recognized 5000A@125VDC 5000A@600VAC, w/o fuse backup 10000A@600VAC, w/ fuse backup	50000A@125VDC 10000A@120/240, 277, 208Y/120VAC	UL Listed: 5000A@80VDC 5000A@125VDC 5000A@120VAC 5000A@120/240VAC 5000A@240VAC UL Recognized: 3000A@80VDC 3000A@240VAC 1500A@480VAC
Auxiliary Switch Rating	10.1A@250VAC 1.0A@65VDC 0.1A@80VDC	10.1A@250VAC 0.5A@65VDC 0.1A@80VDC	3A@125VAC 2A@30VDC
Available Circuits	series, shunt, relay, switch only, series w/ remote shutdown	series & switch only w/ or w/o metering shunt	series, switch only
Termination	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	recessed wire-ready, pressure plate type screw terminals
Mounting Method	rear or front panel	rear or front panel	rear mounted on DIN rail
Approvals	UL, CSA, VDE, UL1500, UL489	CUL, TUV, UL489, UL489A	UL1077, CUL, TUV, UL489
Environmental Protection	MIL-PRF-55629 & MIL-STD-202 method 213, MIL-PRF-39019F when mounted in panel	MIL-PRF-55629 & MIL-STD-202 method 213	MIL-PRF-55629 & MIL-STD-202 method 213
Operating Temperature	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C

TOGGLE SWITCHES

	 <i>LT-Series</i>	 <i>F / G / H / I</i>	 <i>C / D</i>	 <i>110-Series</i>	 <i>DK / EK</i>	 <i>MAAOA / 215</i>
Poles	one, two	one, two, three, four	one	one, two	one, two	one
Ratings	dry circuit to 15A 125VAC 10A 250VAC 15A 12-28VDC	dry circuit to 20A 125VAC 20A 277VAC	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
Actuator	paddle, toggle (bat)	paddle, toggle (bat)	paddle, toggle (bat)	toggle (bat), toggle (ball)	toggle (bat), toggle (ball)	toggle (bat)
Mounting Hole Specifications	.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
Termination	.187 tabs solder lug .250 tabs screw terms wire leads PC terms	.187 tabs solder lug .250 tabs screw terms wire leads PC terms	.250 tabs solder lug screw terms wire leads	solder lug .250 tabs screw terms wire leads	screw terms	.250 tabs screw terms wire leads
Illumination	incandescent, neon	n/a	n/a	n/a	n/a	n/a
Approvals	n/a	UL, CSA, VDE	UL, CSA	UL, CSA	UL, CSA	UL, CSA

FULL-SIZED ROCKERS

PUSHBUTTON

	 <i>TIG / LTIG / TIH / LTIH / TIL / LTIL / TII / LS</i>	 <i>16-3P</i>	 <i>170 / 172</i>	 <i>P26 / P27</i>	 <i>641 / 110</i>	 <i>P / PP</i>
Poles	one, two, three, four	one	one	one	one, two, three	one
Ratings	dry circuit to 15A 125VAC 10A 250VAC	up to 3A 125VAC	up to 15A 125VAC 10A 250VAC	dry circuit to 6A 125VAC 3A 277VAC	up to 5A 125VAC 2A 250VAC	up to 20A 125VAC 10A 250VAC
Sealed Actuator	rocker, paddle	N/A	N/A	N/A	N/A	N/A
Mounting Hole Specifications	.830" x 1.450" [21.08mm x 36.83mm] snap-in mount screw 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
Termination	.187 tab solder lug .250 tabs screw terms wire leads	solder lug wire leads	solder lug screw terms wire leads	.250 tabs solder lug wire leads	solder lug wire leads PC terms	.250 tabs screw terms wire leads
Illumination	incandescent, neon	N/A	N/A	N/A	N/A	N/A
Approvals	UL, CSA, VDE	UL, CSA	UL, CSA	UL, CSA	UL, CSA	UL, CSA, TUV