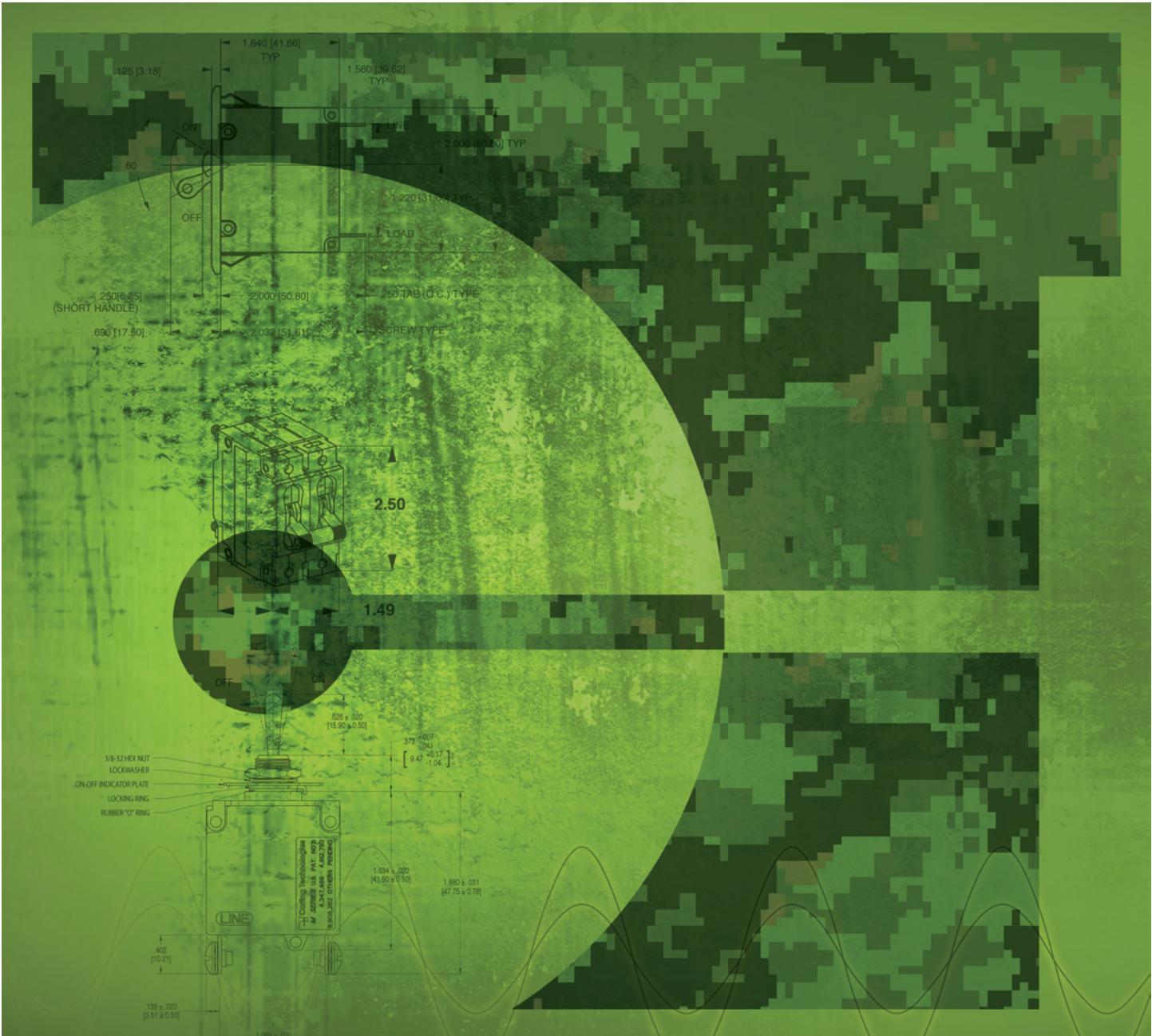


Military Grade

COTS SWITCHES & CIRCUIT BREAKERS

Selector Guide



Circuit Breakers



MS-SERIES



A-SERIES



B-SERIES



C-SERIES



E-SERIES



F-SERIES

NUMBER OF POLES	1	1-6 (handle); 1-3 (rocker)	1-6	1-6 (handle); 1-3 (rocker)	1-6	1-3
ACTUATOR STYLE	Sealed Metal Toggle	Sealed Metal Toggle, Handle, Rocker, Paddle	Handle, Rocker	Sealed Metal Toggle Handle, Rocker	Handle	Handle
AVAILABLE DELAYS	Instantaneous, Short & Medium DC	Instantaneous, Ultra-short, Short, Medium & Long, AC, DC, AC/DC High Inrush - Short, Medium & Long AC and DC	Instantaneous, Ultra-short, Short, Medium & Long, AC, DC, AC/DC High Inrush - Short, Medium & Long AC and DC	Instantaneous, Ultrashort, Short, Medium & Long, AC, DC, AC/DC High Inrush - Short, Medium & Long AC and DC	Instant, Short, Medium & Long -AC, DC, and AC/DC High Inrush - Short, Medium & Long- AC, DC, and AC/DC	Short, Medium & Long DC
MAXIMUM CURRENT & VOLTAGE RATINGS	2-25 Amps, 32VDC, 50VDC	0.02 -30A@277VAC, 80VDC 31.0-50A@125/250VAC, 65VDC	0.02 -30A@277VAC, 80VDC 31.0-50A@125/250VAC, 65VDC	UL Listed 0.02-250A@80VDC 0.02-60A@125VDC 0.02-70A@120VAC 0.02-20A@240VAC ULRecognized 0.02-30A@480WYE /277VAC2-pole, 1Ø, 3-pole, 3Ø 0.02-50A@277VAC 0.02-100A@250VAC, 80VDC 0.02-100A@120/240VAC, 65VDC	UL Listed 0.02-100A@240VAC, 65VDC, 125VDC ULRecognized 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 UL489A Listed 250-700A@125VDC
MAXIMUM INTERRUPTING CAPACITY	1000A@50VDC	3000A@65 VDC, UL only 3500A@65 VDC, w/fuse backup 3000A@125/250VAC, UL only 5000A@277VAC, w/fuse backup	3000A@65 VDC, UL only 3500A@65 VDC, w/fuse backup 3000A@125/250VAC, UL only 5000A@277VAC, w/fuse backup	UL Listed 50000A@80VDC, 10,000A@120VAC, 5000A@125VDC, 240VAC ULRecognized 7500A@80VDC 3000A@125/250VAC, ULonly 5000A@250VAC 5000A@480WYE/277V AC w/fuse backup	UL Listed 25000A@65VDC 5000A@125VDC& 240VAC ULRecognized 5000A@125VDC 5000A@600VAC, without fuse backup 10000A@600VAC, w/fuse backup	50000A@125VDC
AUXILIARY SWITCH RATING	N/A	10.1A@125VAC 0.1A@125VAC (gold contacts) 0.5A@65VDC 0.1A@80VDC	10.1A@125VAC 0.1A@125VAC (gold contacts) 0.5A@65VDC 0.1A@80VDC	10.1A@250VAC 0.1A@125VAC(gold contacts) 0.5A@65VDC	10.1A@250VAC 1.0A@65VDC 0.1A@80VDC	10.1A@250VAC 0.5A@65VDC 0.1A@80VDC
AVAILABLE CIRCUITS	Series & Switch Only	Series, Shunt, Relay, Switch Only, Series w/Remote Shutdown, Relay & Shunt Trip Dual Coil	Series, Shunt, Relay, Switch Only, Series w/Remote Shutdown, Relay & Shunt Trip Dual Coil, Mid-Trip with Alarm Switch	Series, Shunt, Relay, Switch Only, Series w/Remote Shutdown, Relay & Shunt Trip Dual Coil, Mid-Trip with Alarm Switch	Series, Shunt, Relay, Switch Only, Series w/Remote Shutdown	Series & Switch Only with or without Metering Shunt
TERMINAL OPTIONS	8-32 Screw & Solder Type	.250 Tab QC, 8-32 & 10-32 Screw (& metric), PCB	.250 Tab QC, 8-32 & 10-32 Screw (& metric), PCB	10-32 Stud, 1/4-20 Stud, 0-32 Screw/ saddle clamp, Clip Terminal, 1/4 & 7/16 Push-In	10-32 Stud, 1/4-20 Stud 0-32 Screw, 1/4-20 Screw, BoxWire Connector	3/8-16 Stud, 3/8-16 Screw & BoxWire Connector
MOUNTING METHOD	Front Panel	Threaded inserts: Front Panel Snap-In	Threaded inserts: Front Panel Snap-In	Threaded inserts	Rear or Front Panel	Rear or Front Panel
AGENCY APPROVALS	UL approval Pending	UL, CSA, VDE, TUV(rocker), UL1500, UL489A	UL, CSA, VDE, TUV(rocker), UL1500, UL489, UL489A	UL, CSA, VDE, TUV, UL1500, UL489, UL489A	UL, CSA, VDE, UL1500, UL489	CUL, TUV, UL489, UL489A
ENVIRONMENTAL PROTECTION	MIL-PRF-55629 & MIL-STD-202G Method 213, MIL-PRF-39019F when mounted in panel	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	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	-40° C to +85° C	-40° C to +85° C	-40° C to +85° C

Switches



Sealed Rocker Switches

Miniature & Sub-Miniature Switches

Toggle Switches

V-Series
Contura II, III,
V, X & XI

W-Series

L-Series

1-Series
Rocker

2-Series
Toggle

4-Series
Slider

F-Series

G-Series

DK/EK-
Series

	Sealed Rocker Switches	Sealed Rocker Switches	Sealed Rocker Switches	Miniature & Sub-Miniature Switches	Miniature & Sub-Miniature Switches	Miniature & Sub-Miniature Switches	Toggle Switches	Toggle Switches	Toggle Switches
	V-Series Contura II, III, V, X & XI	W-Series	L-Series	1-Series Rocker	2-Series Toggle	4-Series Slider	F-Series	G-Series	DK/EK- Series
NUMBER OF POLES	Single & Double	Single & Double	Single & Double	Up to 4 Poles. Series Dependent	Up to 4 Poles. Series Dependent	Up to 2 Poles. Series Dependent	Single	Single & Double	Single & Double
RATINGS	dry circuit to 15A, 24VDC 15A, 125VAC 10A, 250VAC 20A, 18VDC	dry circuit to 10A, 24VDC	dry circuit to 15A, 24VDC 15A, 125VAC 10A, 250VAC 20A, 18VDC	0.4VA max @ 20V max (AC/DC) Up to: 5A, 125VAC 2A, 250VAC 5A, 28 VDC	0.4VA max @ 20V max (AC/DC) Up to: 5A, 125VAC 2A, 250VAC 5A, 28 VDC	0.4VA max @ 20V max (AC/DC) Up to: 5A, 125VAC 2A, 250VAC 5A, 28 VDC	10A 250VAC 15A 125VAC 3/4HP 120-240VAC 3A 250VAC 6A 125VAC 1/4HP 120-240VAC 12A, 250VAC 20A, 125VAC 1HP 120-240VAC	10A 250VAC 15A 125VAC 3/4HP 125-250VAC 3A 250VAC 6A 125VAC 1/4HP 125-250VAC 12A 250VAC 17A 125VAC 1HP 250VAC 20A 250VAC 20A 125-277VAC 1 1/2HP 125VAC 2HP 125-250VAC 10A 250VAC 15A 125VAC 12(6)A 250VAC T85 1/4HP 125-250VAC	8A 250V 16A 125V 1HP 125-250V 10A 250V 20A 125V 1 1/2HP 125-250V
AVAILABLE AGENCY APPROVALS	UL, CSA, VDE, UL 1500	N/A	N/A	UL, CSA	UL, CSA	UL, CSA	UL, CSA	UL, CSA, VDE	UL, CSA
ACTUATOR TYPE	Contura II, III & V: Bezel-less Rocker & Locking Rocker Contura X & XI: Rocker w/Bezel, Paddle & Locking Rocker	Bezel-less Rocker, Paddle & Locking Rocker	Rocker, Paddle & Locking Rocker	Rocker & Paddle with or w/out Bezel	Long or Short Bat, Paddle or Locking Styles	Long & Short Nylon Slide Button	Metal Bat or Ball Style Toggles	Metal Bat or Nylon Paddle Styles	Metal Bat or Ball Style Toggle
MOUNTING HOLE SPECIFICATIONS	1.45 x .83 [36.83mm x 21.08mm] Snap In	1.45 x .83 [36.83mm x 21.08mm] Snap In	1.734 x .867 [44mm x 22mm] Snap In	Surface & PC Mount	Surface & PC Mount	Surface & PC Mount	.500 diameter; through hole	.500 diameter; through hole	.500 diameter; through hole
TERMINATION	Solder Lugs .250 tabs Wire Leads	.110 tabs	.187 tabs .250 tabs	Solder Lug PCB PC Horiz/ Vertical Snap-in, U Bracket & Wire Wrap	Solder Lug PCB PC Horiz/ Vertical Snap-in, U Bracket & Wire Wrap	Solder Lug PCB PC Horiz/Vertical Wire Wrap & Quick Connect	.250 Tabs Solder Lugs Wire Leads Screw Terminals .187 Tabs	.250 QC Tabs .187 QC Tabs Solder Lugs Wire Leads Screw Terminals PC Terminals	Screw Terminals
CIRCUIT CAPACITY	10 Terminals	10 Terminals	12 Terminals	Up to 12 Terminals	Up to 12 Terminals	Up to 6 Terminals	3 Terminals	6 Terminals	4 Terminals
SEALING	IP66/68 above panel	IP68 above and below panel, fully submersible	IP67 above panel	Epoxy Sealed Terminals	Epoxy Sealed Terminals	Epoxy Sealed Terminals	Optional Bushing O-Ring	Optional Bushing O-Ring	Optional Bushing O-Ring
ILLUMINATION	Incandescent LED Neon	LED	Incandescent LED	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL	MIL-STD 202F, 810C	MIL-STD 202F	MIL-STD 202F	MIL-STD 202	MIL-STD 202	MIL-STD 202	N/A	N/A	N/A



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