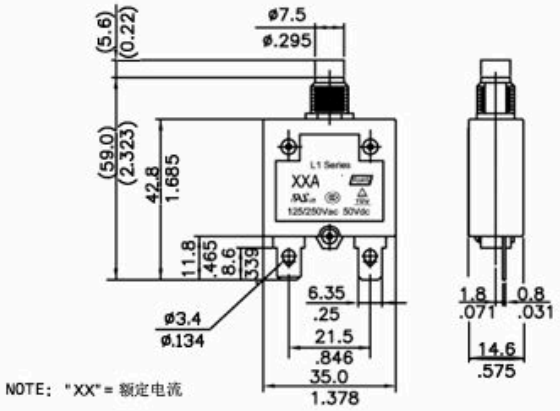
BDIVERSE
Supply chain improvement & entrepreneurship

L 1 Series

L 1 Series "SERIES TRIP", "PUSH TO RESET" Single Pole circuit breakers represent our largest selling product family. Bases on a proven "SNAP ACTING" bimetallic thermal seneing elemant system. L 1 Series circuit breakers sease Overload conditions and interupt the flow of Current. The resettable actuator mechenism then remains disengaged until manually reset.
L 1 Series offers amperage ratings from 3A to 60A, and is suitable for a diversity of applications, our products are carefully calibrated and tested to ensure reliable performance under a variety of operating assignments and conditions.

Outline Dimensions



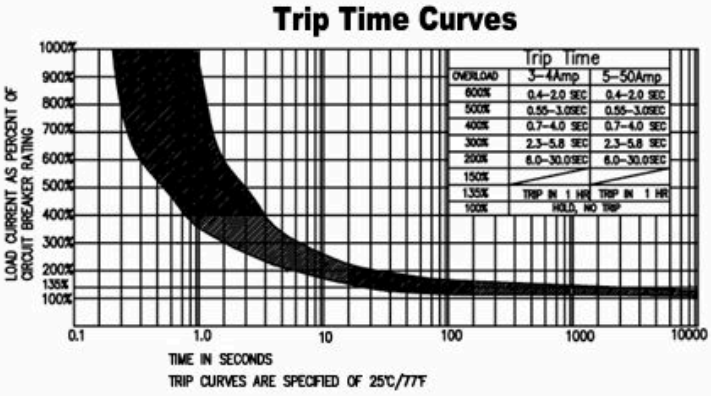
Specification

Rated Voltage	AC 125/250V DC 50V
Rated Current	3~50A
Interrupt Capacity	125VacX1000A 250VacX200A
Insulation Resistance	>500 MΩ
Resettable Overload Capacity	Ten Times Rated Current
Dielectric Strength	1,500Vac 1 minute
Weight	Approx 25.0g (0.9 oz.)
Voltage Drop	Less than 0.25V
Reset Time	Within 60 seconds
Method of Operation	R Type and J TYPE

Typical Resistance VS. Current Rating @ +25°C

Current Rating in Amps	Typical Resistance in Ohms	Current Rating in Amps	Typical Resistance in Ohms
5.0	0.052	15.0	0.017
6.0	0.042	20.0	0.012
7.0	0.036	25.0	0.010
8.0	0.031	30.0	0.008
10.0	0.025	35.0	0.007
12.0	0.021	40.0	0.006

Time vs. Current Trip Curve@+25°C



100% of rated current: Hold, No-Trip
135% of rated current : Trip in 1 Hour
200% of rated current: Within 40 Seconds
300% of rated current: Within 10 Seconds

Ambient Compensation Table

Capacity Correction Factors For Ambient Temperatures

Current Rating Amps	Temperature									
	°F	+14	+32	+50	+68	+77	+86	+104	+122	+140
	°C	−10	+0	+10	+20	+25	+30	+40	+50	+60
3 to 8A		.70	.80	.92	.98	1.00	1.10	1.25	1.61	2.00
9 to 40A		.74	.78	.83	.90	1.00	1.05	1.15	1.31	1.55

The unit is calibrated for ambient temperature of +25°C. To determine the rated current for a lower or higher ambient Temperature, use a correction factor as above.

Approval

Approval	File No.	Rated current range	Rated Voltage	Standard
UL+cUL	E478741	3~50A	125/250VAC 50VDC	UL1077
TUV	50046704	3~40A	125/250VAC 50VDC	EN60934
CCC	2014010307693248	3~50A	125/250VAC 50VDC	GB17701
UL+cUL	E482018	3~50A	125/250VAC 50VDC	UL244A

Mechanical / Environmental Data

Operating Temperture Range: -10°C to 60°C
Termination: 250" (6.35mm) quick conects or solder terminals
Mounting: Various options. See Ordering Infomation and drawings
Temperature Rise at Terminal Block: Less than 65°C at 100% of rated current applied continuously at 25°C
Contact Endurance: 125Vac X 150% of rated current >500 Cycles

L1 SERIES ORDERING INFORMATION

L1	—	1 5 0	—	2	1	1	1	—	1	3	LCAPA
Series		Rating ①		Voltage ②	Buttom ③	Mouting Cap ④	Terminal ⑤		Nameplate ⑥	Mounting Hardware ⑦	Waterproof ⑧

Rating ①
030–3Amps
040–4Amps
050–5Amps
060–6Amps
:
500–50Amps

Voltage ②
1 DC 50V
2 AC 125–250V

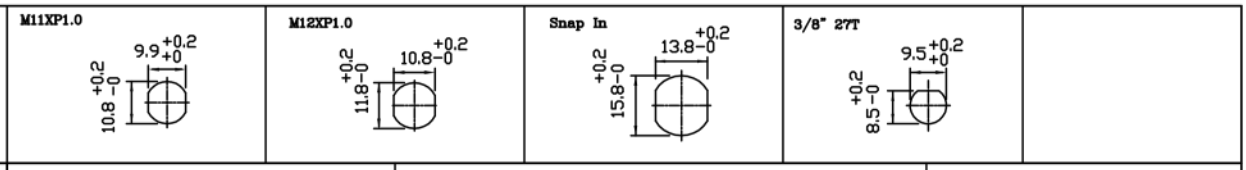
Buttom ③

0	Auto Reset	9	
1	Black Without Printing	A	Red Without Printing
2	Black W/Ver white Print	B	Red W/Ver Black Print
3	Black W/Hor white Print	C	Red W/Hor Black Print
6	White Without Printing	D	
7	White W/Ver Black Print		
8	White W/Hor Black Print		

Nameplate ⑥
0 None
1 Silver printing on black for M11
2 Black printing on Silver for M11
3 Black printing on Silver for M12
4 Silver printing on white for M12

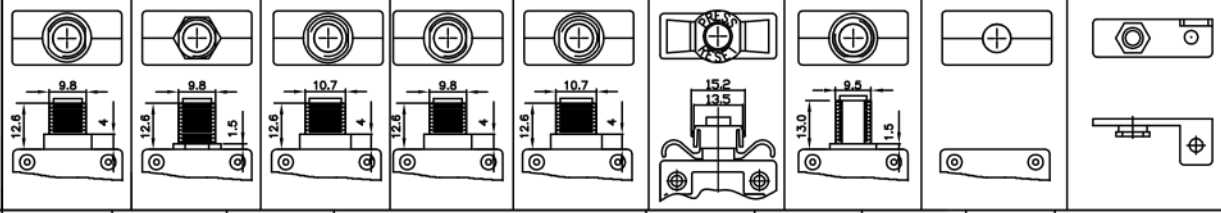
Waterproof ⑧
0=None
R=LCAPB
F=LCAPA

Panel Hole



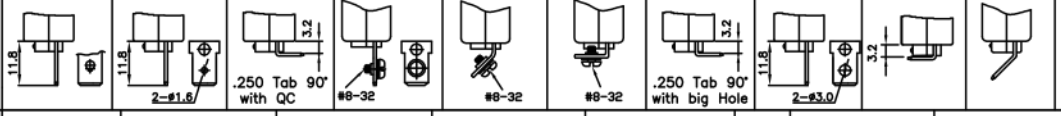
④ Mounting Cap Type

Metal			Plastic				Auto Reset	
M11XP1.0	M11XP1.0	M12XP1.0	M11XP1.0	M12XP1.0	Snap In	3/8" 27T	Auto Reset No Holder	Auto Reset Holder
1	2	3	4	5	6	8	0	7



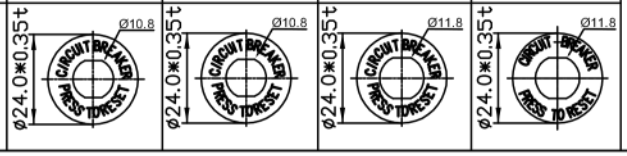
⑤ Terminal Type

.250 Tab with big hole	.250 Tab with Q.C	90° Bend backward	Screw and lockwasher			90° Bend backward	.250 Tab with Slode	90° Bend Cover	45° bend Cover	
1	3	4	5	H	L	6	8	A	B	



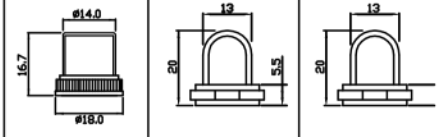
⑥ Nameplate Type

0	Black M11	White M11	Black M12	White M12
	1	2	3	4
None				



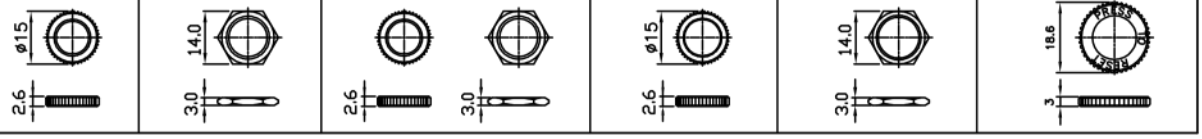
⑧ Waterproof Option

M11XP1.0	M11XP1.0	3/8–27
LCAPA	LCAPB	LCAPC



⑦ Hardware Type

Metal					Plastic
1	2	6=1+2	4	5	3
Knurlnut M11	Hexnut M11	Knurlnut Hexnut	Knurlnut M12	Hexnut M12	Integrated Kunrlnut



Ordering Note:

Options denoted by "Special Order" in their descriptions are only offered on a special order basis. Other base and button colors and intermediate Amp ratings are also available on a special order basis. Due to ongoing technological advances, consult factory for certification specfics.