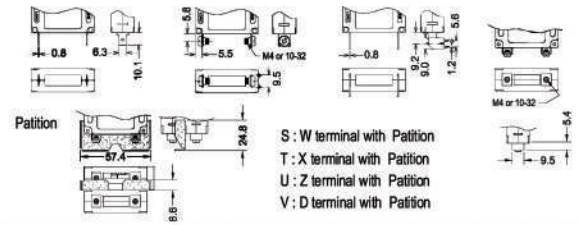
| AEV | Item | Date | Description | Revised By | Remark |
|---|---|---|---|---|---|
| | | 10.15.16 | Change color code in handle. | | |

## ■ Terminal Code:

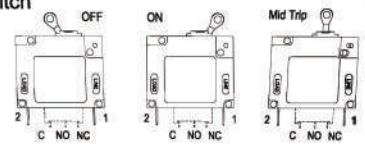
Q : 10-32
W : Quick conntctor
X : Side screw, M4
Z : Side screw, M5
Y : Right angle, PCB mount
D : Saddle clamp, M4
G : 10-32



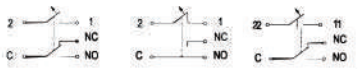

S : W terminal with Patition
T : X terminal with Patition
U : Z terminal with Patition
V : D terminal with Patition

## ■ Aux. switch circle

Handle position



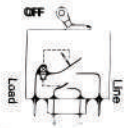

(11) Standard




(12) Trip-alarm


(13) DuCon, relay+CB trip
12~24 Vac or Vdc +/-20%, at <10 sec trigger

(B3) Relay trip, relay+sw only




(14) Dual rating

Hi (xx) ● ● Line
Lo (yy)

## ■ Code information :

J □□□ – □□□ – □□ – □□□ – □□ – □□□ – option code for B3,13

Terminal | No. of poles | Outlooks | Trip Curve | Aux. Frame 00,01,02 11,12,13,14, B3 | Rate current 001~050 | Handle | Front mount | Color and Marking

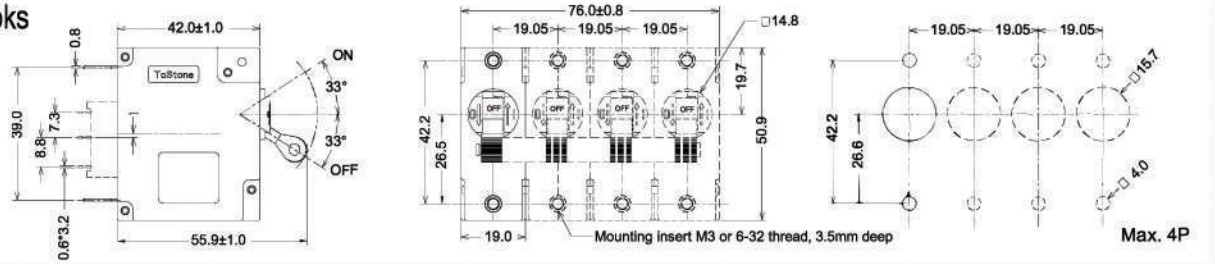
## ■ Technical Specification

Temperature : -40℃ to +85℃
Shock : 50G, 11ms or 100G, 6ms
Vibration : 10 to 500 Hz, 10G(1.6 mm to 50 Hz)
Life : 10,000 Switching opearation with 6,000 at rate current
Approximate weight : 1P-60g, 2P-123g, 3P-1185g, 4P-245g
Dielectric Streight : 2,500 Vac 50 / 60 Hz
Rated Current : 1-50A according requirement
Torgue Allowed for inserts screw : M3 / 6-32 (0.6~0.8 Nm)
Terminal side screw : M5 / 10-32 (0.4~0.6Nm)
Interrupting Capacity : Inc 5,000A (EN 60934, EN 60947-2)
Icu=5,000A (cUL)

## ■ Aux. Frame

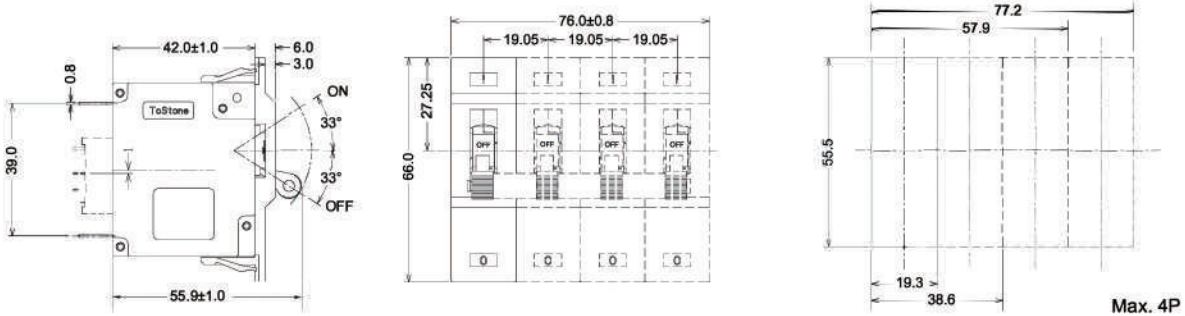
00, None
01, NVP for 115 Vac
02, NVP for 230 Vac
11, Aux. sw for standard (on-off in same action with toggle)
12, Aux sw for Trip Alarm (only in trip action)
＊Aux sw, Max. 250Vac 5A
B3(Relay trip), 13(DuCon) Need to add (xxV, ac/dc)
14, Dual rating, xx(yy)

## ■ Outlooks



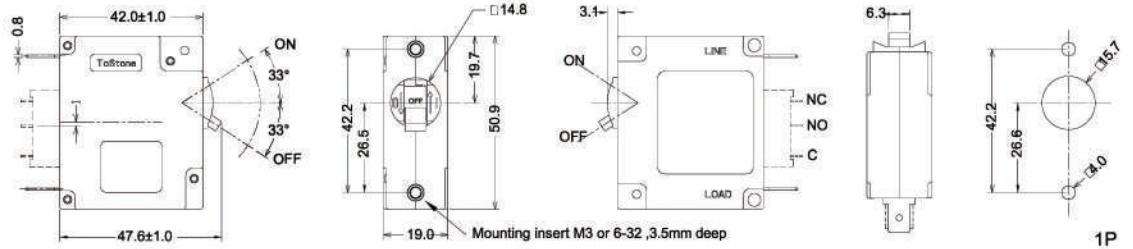

A : Toggle

Max. 4P



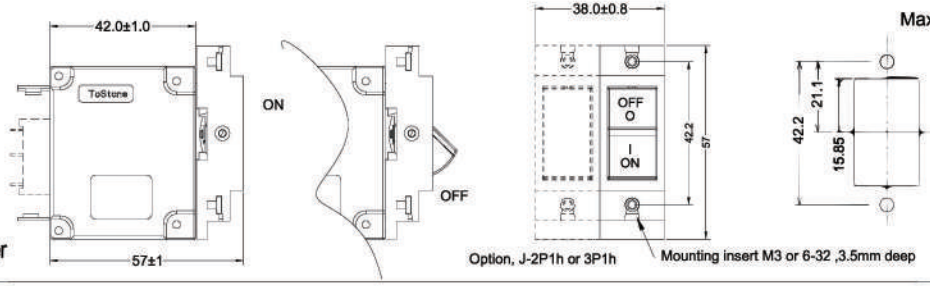

B : Snap-in

Max. 4P




S : Short handle

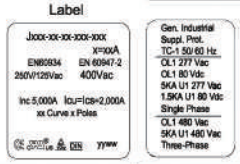
1P



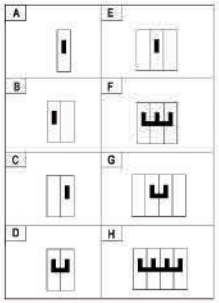

R : Rocker

Max. 3P

### Label




## ■ Handle location




## ■ Handle Color & Marking

| mid-trip | on-off | actuator, printing |
|---|---|---|
| M | A | Black, ON/OFF |
| X | B | White, ON/OFF |
| Y | C | Black, O / — |
| Z | D | White, O / — |
| F | K | Black, O / — ,ON/OFF |
| T | W | White, O / — ,ON/OFF |
| P | R | Red, O / — ,ON/OFF |
| Q | G | Green, ON/OFF |
| E | N | Black, No marking |
| O | P | White, No marking |
| J | S | Special require |

## ■ Front mount insert screw

A - M3
B - 6-32
E - M3 (for dc)
F - 6-32 (for dc)
N - None (Snap-in Type)
M - None (for dc)

## ■ Standard trip curve

BF - Fast trip
BG - Medium trip
BH - Slow trip

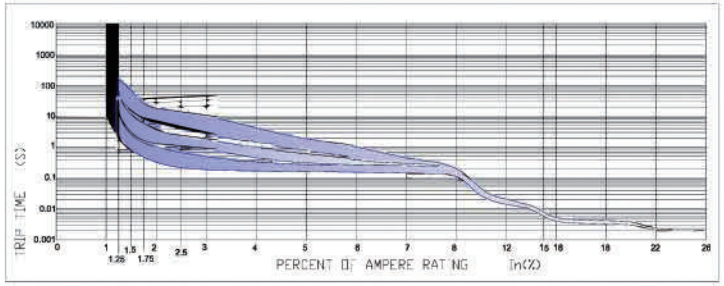
## ■ Special curve

B3 - Relay trip (xxV, ac/dc)
99 - Switch only
00 - Instance trip

**Time delay curve : standard @ BF, BG, BH  Relay trip : B3  Switch only : 99  Instance trip : 00**

under ve ■ al test ■ Curve XF, XG, XH, 50/ 60 Hz, DC (X represent B=8x, C=15x, D=22x)

| In/% | 125 | 150 | 175 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XF Min | 3.0 | 0.937 | 0.616 | 0.508 | 0.435 | 0.374 | 0.308 | 0.266 | 0.248 | 0.236 | 0.213 | 0.119 | 0.113 | 0.110 | 0.108 | 0.106 | 0.103 | 0.079 | 0.071 | 0.069 | 0.067 | 0.065 | 0.063 | 0.057 | 0.043 |
| XF Max | 16 | 3.475 | 1.927 | 1.301 | 0.980 | 0.773 | 0.542 | 0.408 | 0.335 | 0.287 | 0.244 | 0.128 | 0.123 | 0.119 | 0.116 | 0.111 | 0.109 | 0.083 | 0.074 | 0.072 | 0.069 | 0.067 | 0.064 | 0.059 | 0.045 |
| XG Min | 15.0 | 4.824 | 2.506 | 1.726 | 1.300 | 1.000 | 0.691 | 0.496 | 0.387 | 0.329 | 0.272 | 0.136 | 0.129 | 0.126 | 0.125 | 0.119 | 0.115 | 0.085 | 0.077 | 0.075 | 0.073 | 0.070 | 0.068 | 0.062 | 0.047 |
| XG Max | 70.0 | 17.91 | 8.660 | 5.508 | 3.819 | 2.655 | 1.358 | 0.769 | 0.542 | 0.401 | 0.307 | 0.148 | 0.138 | 0.133 | 0.131 | 0.128 | 0.121 | 0.091 | 0.080 | 0.078 | 0.076 | 0.073 | 0.070 | 0.064 | 0.049 |
| XH Min | 80.0 | 21.28 | 11.07 | 7.228 | 5.048 | 3.631 | 1.927 | 1.021 | 0.657 | 0.458 | 0.347 | 0.158 | 0.144 | 0.142 | 0.138 | 0.131 | 0.128 | 0.093 | 0.083 | 0.080 | 0.078 | 0.076 | 0.074 | 0.065 | 0.050 |
| XH Max | 200 | 72.61 | 38.46 | 25.41 | 17.14 | 11.07 | 5.999 | 2.365 | 1.021 | 0.579 | 0.421 | 0.174 | 0.162 | 0.150 | 0.148 | 0.141 | 0.134 | 0.099 | 0.086 | 0.084 | 0.081 | 0.078 | 0.075 | 0.067 | 0.052 |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0<6 ±0.2 | 50<120 ±0.5 | Material | | Parts no | J-TYPE | Dongguan Tianrui Electronics Co., Ltd | |
| 6<18 ±0.3 | 120<250±0.6 | | | Drawing by | PXP | | |
| 18<50 ±0.4 | 250<400 ±0.7 | Date | 03/03/14 | Check by | PXP | | |
| Tolerance unless otherwise specitied,unit in mm | | Issue | A/0 | Approve by | Jerry | Drawing no J-TYPE | Model code J |