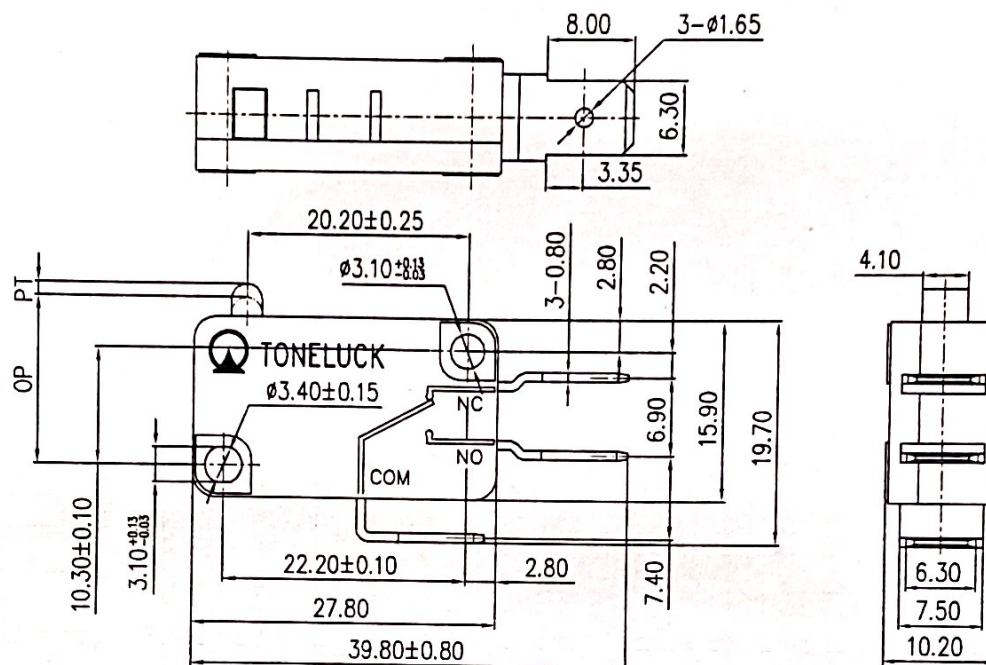




## Mechanical Characteristics:

| Item                         | Criteria     |
|------------------------------|--------------|
| Operating Force              | 100±25 gf    |
| Releasing Force              | 20gf Min.    |
| Operating Position           | 14.7±0.5mm   |
| Movement Differential Travel | 0.4mm Max.   |
| Pre Travel                   | 1.2mm Max.   |
| Over Travel                  | 1.25 mm Min. |

## Electrical Characteristics:

| Ratings                                | Operating Life                     |
|----------------------------------------|------------------------------------|
| 22A 125/250VAC; 1HP 125VAC; 2HP 250VAC | 6,000 cycles with load (UL-dUL)    |
| 12A 125VL                              | 6,000 cycles with load (UL-dUL)    |
| 15.1A 125/250VAC                       | 100,000 cycles with load (UL-dUL)  |
| 22(8)A 125/250VAC                      | 10,000 cycles with load (ENEC-CQC) |

## Insulation Resistance:

100MΩMin.

|             |                                              |
|-------------|----------------------------------------------|
| Dielectric: | 1000VAC(50~60HZ)                             |
|             | - between non-connected terminals            |
|             | 1500VAC(50~60HZ)                             |
|             | - between terminals and ground               |
|             | - between terminals and non-live-metal parts |

## Other Spec. :

|                              |                   |
|------------------------------|-------------------|
| Operating Life Without Load: | 1,000,000 cycles. |
| Operating Temperature Range: | -40℃~+125℃        |

| Material List |                             |
|---------------|-----------------------------|
| Switch Base   | Thermoplastics UL94 V-0     |
| Switch Cover  | Thermoplastics UL94 V-0     |
| Terminals     | Copper Alloy, Silver plated |
| Actuator      | Thermoset UL94 V-0          |
| Contacts      | Silver Alloy                |

MASS PRODUCTION RELEASE

|              |                      |                          |         |           |                                                                                       |                                                                 |        |               |         |       |
|--------------|----------------------|--------------------------|---------|-----------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------|---------------|---------|-------|
|              | 2022-01-14           | Update the drawing frame |         |           |                                                                                       | /                                                               |        | 003           |         |       |
| REV.         | DATE                 | MODIFICATION             |         |           |                                                                                       | ECN NO.                                                         |        | PRIOR VERSION |         |       |
| Project Ref: | E SERIES MICROSWITCH |                          |         |           | Tolerance Unless Otherwise Specified                                                  |                                                                 |        |               |         |       |
| Part No:     | E53AL-AN00Ag-01      |                          |         |           | -3                                                                                    | >3-10                                                           | >10-30 | >30-80        | >80-180 | Angle |
| Drawing No:  | - - -                |                          | Eng Ver | A3        | ±0.20                                                                                 | ±0.30                                                           | ±0.40  | ±0.60         | ±0.80   | ±3°   |
| Drafted by:  | Maxing               |                          | Date:   | 2022-1-18 | Unit: mm                                                                              | Size: A4                                                        | Scale: |               |         |       |
| Checked by:  | Steven Duan          |                          | Date:   | 2022-1-18 | THIRD ANGLE                                                                           | <div>TONELUCK</div> <div>Switches &amp; Control Solutions</div> |        |               |         |       |
| Approved by: | Steven Duan          |                          | Date:   | 2022-1-18 |  |                                                                 |        |               |         |       |

## Circuit Diagram

