



## VA2 SERIES

### SPECIFICATIONS

#### Contact Resistance(initial)

Max. 100 mΩ

Measured by ohm meter - open voltage < 1VDC, driver current -100 mA

#### Insulation Resistance (at 500 VDC / minute)

Min. 100 MΩ

#### Dielectric Strength

1500 VAC(50~ 60 Hz)

#### Operating Temperature Range

-40°C to 125°C (with no icing)

#### Vibration

10~55 Hz, displacement 0.75 mm(p-p)

#### Electrical Service Life

0.1A - Min. 1,000,000 operations

6A~20A - Min. 10,000 operations

#### Electrical Operating Frequency

10~30 operations per minute

#### Mechanical Service Life

Min. 1,000,000 operations

#### Mechanical Operating Frequency

120 operations per minute

### APPLICATIONS

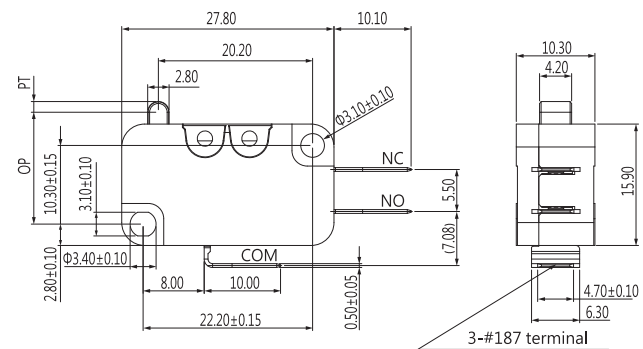
Joystick, TV game, Time Recorder, Air Conditioner, Food Processor, Juice Maker, Alarm, Mixer, Shredder Machine

### CERTIFICATE INFORMATION

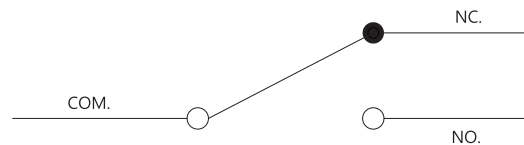
| Model Name | UL, cUL                                                 | ENEC15                           |
|------------|---------------------------------------------------------|----------------------------------|
| VA2-P1     | 0.1A 125/250VAC (Temp:125°C )<br>Min. 10,000 operations | 0.1A 125/250VAC,<br>μT125 1E4    |
| VA2-06     | 6A 125/250VAC (Temp:125°C )<br>Min. 10,000 operations   | 6A 125/250VAC,<br>μT125 1E4      |
| VA2-10     | 10A 125/250VAC (Temp:125°C )<br>Min. 10,000 operations  | 10(4)A 125/250VAC,<br>μT125, 1E4 |
| VA2-16     | 16A 125/250VAC (Temp:125°C )<br>Min. 10,000 operations  | 16(4)A 125/250VAC,<br>μT125, 1E4 |
| VA2-20     | 20A 125/250VAC (Temp:125°C )<br>Min. 10,000 operations  | 20A 125/250VAC,<br>μT125, 1E4    |

### DIMENSIONS

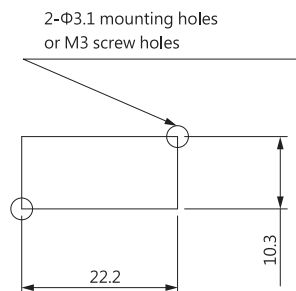
Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



### CONTACT CONFIGURATION



### MOUNTING HOLES



### THE SELECTION OF RATING & FORCE

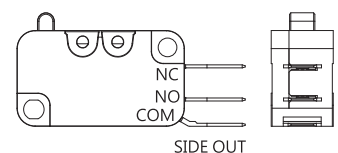
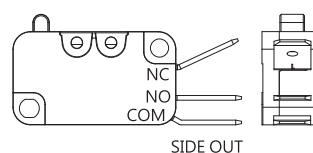
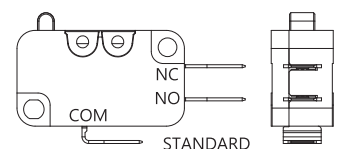
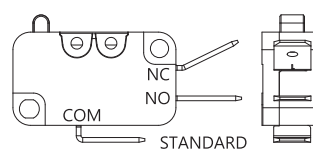
| MODEL | Rating | L | S | H | Q |
|-------|--------|---|---|---|---|
| VA2   | 0.1 A  | * | * | * | * |
|       | 6 A    | * | * | * | * |
|       | 10 A   | * | * | * | * |
|       | 16 A   | * | * | * | * |
|       | 20 A   |   | * | * | * |

NOTE : The Symbol " \* " to represent the result is accepted

### TERMINAL TYPES

C TYPE  
250 terminal

D TYPE  
187 terminal



# ORDERING INFORMATION

|                  |   |                  |                       |   |   |                  |                    |   |                  |                  |                                           |                                           |                  |    |                  |                  |               |                    |                        |  |              |  |
|------------------|---|------------------|-----------------------|---|---|------------------|--------------------|---|------------------|------------------|-------------------------------------------|-------------------------------------------|------------------|----|------------------|------------------|---------------|--------------------|------------------------|--|--------------|--|
| V                | A | 2                | —                     | 1 | 6 | S                | 0                  | — | 0                | 0                | D                                         | 0                                         | —                | Z  |                  |                  |               |                    |                        |  |              |  |
| SERIES<br>PREFIX |   | C<br>O<br>D<br>E | RATING<br>CURRENT     |   |   | C<br>O<br>D<br>E | OPERATING<br>FORCE |   | C<br>O<br>D<br>E | EXTERIOR<br>TYPE |                                           | C<br>O<br>D<br>E                          | ACTUATOR<br>TYPE |    | C<br>O<br>D<br>E | TERMINAL<br>TYPE |               | C<br>O<br>D<br>E   | CIRCUIT<br>ARRANGEMENT |  | ROHS<br>CODE |  |
|                  |   | P1               | 0.1A 125/250VAC       |   |   | Q                | HEAVIER            |   |                  | 0                |                                           | STANDARD TERMINAL<br>NO ACTUATOR          |                  | 00 |                  | C                | #250 terminal | 0                  | T125<br>S.P.D.T        |  |              |  |
|                  |   | 06               | 6A 125/250VAC         |   |   | H                | HEAVY              |   |                  | 1                |                                           | STANDARD TERMINAL<br>ACTUATOR AWAY BUTTON |                  | 01 |                  |                  | 1             | T125<br>S.P.S.T NO |                        |  |              |  |
|                  |   | 10               | 10A;10(4)A 125/250VAC |   |   | S                | STANDARD           |   |                  | 2                |                                           | STANDARD TERMINAL<br>ACTUATOR NEAR BUTTON |                  | 02 |                  |                  | 2             | T125<br>S.P.S.T NC |                        |  |              |  |
|                  |   | 16               | 16A;16(4)A 125/250VAC |   |   | L                | LIGHT              |   |                  | 3                |                                           | SIDE OUT TERMINAL<br>NO ACTUATOR          |                  | 03 |                  | D                | #187 terminal |                    |                        |  |              |  |
|                  |   | 20               | 20A 125/250VAC        |   |   |                  |                    |   | 4                |                  | SIDE OUT TERMINAL<br>ACTUATOR AWAY BUTTON |                                           | 04               |    | STANDARD         |                  |               |                    |                        |  |              |  |
|                  |   |                  |                       |   |   |                  |                    |   | 5                |                  | SIDE OUT TERMINAL<br>ACTUATOR NEAR BUTTON |                                           | 05               |    | SIDE OUT         |                  |               |                    |                        |  |              |  |
|                  |   |                  |                       |   |   |                  |                    |   |                  |                  |                                           |                                           |                  | 06 |                  |                  |               |                    |                        |  |              |  |

# ORDERING INFORMATION

| SWITCH<br>TYPE    | PART<br>SUFFIX | OF Max.<br>(gf) |     | OP<br>(mm) | PT Max.<br>(mm) | OT Min.<br>(mm) | MD Max.<br>(mm) |
|-------------------|----------------|-----------------|-----|------------|-----------------|-----------------|-----------------|
| VA2- □□□ 0-00D0-Z |                | Q               | 330 | 14.7±0.5   | 1.72            | 0.8             | 0.4             |
|                   |                | H               | 230 |            |                 |                 |                 |
|                   |                | S               | 170 |            |                 |                 |                 |
|                   |                | L               | 110 |            |                 |                 |                 |
| VA2- □□□ 1-01D0-Z |                | Q               | 330 | 15.3±0.5   | 2.8             | 0.6             | 0.5             |
|                   |                | H               | 230 |            |                 |                 |                 |
|                   |                | S               | 170 |            |                 |                 |                 |
|                   |                | L               | 110 |            |                 |                 |                 |
| VA2- □□□ 1-02D0-Z |                | Q               | 180 | 15.3±1.5   | 5.9             | 1.6             | 1.0             |
|                   |                | H               | 125 |            |                 |                 |                 |
|                   |                | S               | 86  |            |                 |                 |                 |
|                   |                | L               | 50  |            |                 |                 |                 |
| VA2- □□□ 1-03D0-Z |                | Q               | 120 | 15.3±2.5   | 9.3             | -               | 2.1             |
|                   |                | H               | 70  |            |                 |                 |                 |
|                   |                | S               | 49  |            |                 |                 |                 |
|                   |                | L               | 30  |            |                 |                 |                 |
| VA2- □□□ 1-04D0-Z |                | Q               | 205 | 18.7±1.5   | 5.5             | 1.4             | 1.1             |
|                   |                | H               | 140 |            |                 |                 |                 |
|                   |                | S               | 110 |            |                 |                 |                 |
|                   |                | L               | 65  |            |                 |                 |                 |
| VA2- □□□ 1-05D0-Z |                | Q               | 330 | 20.7±0.8   | 2.7             | 0.6             | 0.45            |
|                   |                | H               | 230 |            |                 |                 |                 |
|                   |                | S               | 170 |            |                 |                 |                 |
|                   |                | L               | 110 |            |                 |                 |                 |
| VA2- □□□ 1-06D0-Z |                | Q               | 180 | 20.7±1.5   | 4.2             | 1.6             | 1.25            |
|                   |                | H               | 125 |            |                 |                 |                 |
|                   |                | S               | 100 |            |                 |                 |                 |
|                   |                | L               | 65  |            |                 |                 |                 |