## FFO116BACAEAOI-WL



Dimensions in mm/inch


## SINGLE POLE SOLDER LUG

| Base Switch | Pole \& Throw | Plunger Position |  | Connected Terminals |  |  <br> Switch Schematics |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Normal | Down | Normal | Down | Note: Terminal numbers are on the switch. |
| FFO116BACAEA01 | SPST | ON | OFF | 11-12 | OPEN | SPST NC $\quad \underset{11}{\bullet}$ |

## PANEL CUTOUT



Recommended Panel Thickness: .031" ~ . 177" ( $0.8 \mathrm{~mm} \sim 4.5 \mathrm{~mm}$ )

|  | WIRING |  |
| :---: | :---: | :---: |
| Number <br> of Wires | Terminal <br> 11 | Terminal <br> $\mathbf{1 2}$ |
| 2 | White | Brown |


| WIRE SPECIFICATIONS |  |
| :---: | :---: |
| UL1007/UL1569 PVC | Temperature: <br> $+80^{\circ} \mathrm{C}$ and $+105^{\circ} \mathrm{C}$ <br> $\left(+176^{\circ} \mathrm{F}\right.$ and $\left.+221^{\circ} \mathrm{F}\right)$ |
| Voltage: 300 V | Stripped Wire Ends $.142^{\prime \prime}(3.6 \mathrm{~mm})$ |
| 22 AWG Stranded |  |

## Base Switch Specifications

Electrical Capacity
Resistive Load: $\quad 0.5 \mathrm{~A} @ 24 \mathrm{~V}$ DC

## Other Ratings

Rated Insulation Voltage:
Impulse Withstand Voltage:
Contact Resistance: 50 milliohms maximum
Insulation Resistance: 100 megohms minimum @ 500 V DC
Mechanical Life: 100,000 operations minimum
Electrical Life: 100,000 operations minimum
Operating Force: Push to lock 10.8 N ; Pull to reset 8.5 N ; Turn to reset $0.13 \mathrm{~N} \cdot \mathrm{~m}$
15N
gG10A
1000A
. $118^{\prime \prime}$ ( 3.0 mm )
. $177^{\prime \prime}(4.5 \mathrm{~mm}$ )
10 times per minute
Operation Frequency:
Overvoltage Category: II

## Materials \& Finishes

| Actuator: | Glass fiber reinforced polyester (PBT) |
| ---: | :--- |
| Housing: | Glass fiber reinforced polyamide |
| Movable Contacts: | Silver alloy copper with gold plating |
| Stationary Contacts: | Silver alloy copper with gold plating |
| Terminals: | Brass with tin plating |

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Environmental Data
Operating Temperature Range: $-25^{\circ} \mathrm{C} \sim+60^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F} \sim+140^{\circ} \mathrm{F}\right)$
Storage Temperature Range: $-45^{\circ} \mathrm{C} \sim+80^{\circ} \mathrm{C}\left(-49^{\circ} \mathrm{F} \sim+176^{\circ} \mathrm{F}\right)$
Humidity: $90 \sim 95 \%$ humidity for 240 hours $@+40^{\circ} \mathrm{C}\left(+104^{\circ} \mathrm{F}\right)$
Vibration: $10 \sim 500 \mathrm{~Hz}$, amplitude 0.35 mm .
Acceleration $50 \mathrm{~m} / \mathrm{s}^{2}$
Shock: Durability: $1,000 \mathrm{~m} / \mathrm{s}^{2}$;
Malfunction: $150 \mathrm{~m} / \mathrm{s}^{2}$
Pollution Degree: 3
Sealing: Meets IP65 of IEC 60529
Standards at front panel
Installation
Mounting Torque: $785 \mathrm{mN} \cdot \mathrm{m}$
Soldering Time \& Temperature: Manual Soldering: $390^{\circ} \mathrm{C}$ max for 4 seconds max, 2 cycles
RoHS Compliant:
Standards \& Certifications


UL, C-UL (UL508)

## ED c

EN 60947-5-1, EN 60947-5-5
C $\epsilon$

## Emergency Stop Switches



## Characteristics

Low profile body and impressively short behind panel depth of only 13.6 mm offer advantages to high density panel layouts. Switches are IP65 rated at the front panel per IEC 60529 Standards (dust tight and protected against water jets from any direction). Outstanding safety and reliability factors are benefits of unique sliding latch mechanism that maintains the OFF state of the contacts. Protection against rugged vibration and chattering credited to internal construction featuring superior shock resistant properties.
All models have solder lug terminals and an actuator in 25 or 30 mm diameters, with directional arrow legend or blank surface. Resetting methods include both twisting or pull release for enhanced safety.
The FFO1 Series has various accessories, including a protective guard and nameplates with EMERGENCY STOP legend or blank. The nameplates and switch guard are all interchangeable for both actuator sizes.

## Optional Accessories

AT221
Nameplate
without Legend
One o-ring is
provided with
each nameplate
Materials \& Colors:
Nameplate: Glass fiber reinforced polyamide
O-ring: Chloroprene rubber
Nameplate: Yellow
O-ring: Black

| AT220 |
| :--- |
| Protective Guard |
| One o-ring is |
| provided with |
| each protective |
| guard |


| Materials \& Colors: |
| :--- |
| Guard: Glass fiber reinforced polyamide |
| O-ring: Chloroprene rubber |
| Guard: Yellow |
| O-ring: Black |

