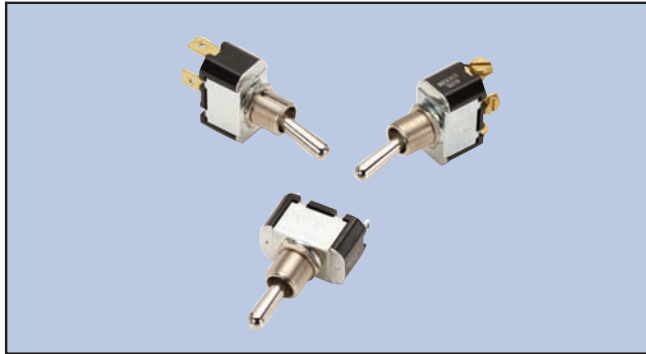


# Bat Handle Toggle



## Features

- Neoprene Seal Toggle (54-456 thru 54-459, 54-659 ONLY)
- Slow Make, Slow Break Contacts
- AC Rated, Suitable for Low Voltage DC Also
- Standard .500" Dia Mounting Hole
- Various Terminal Selections

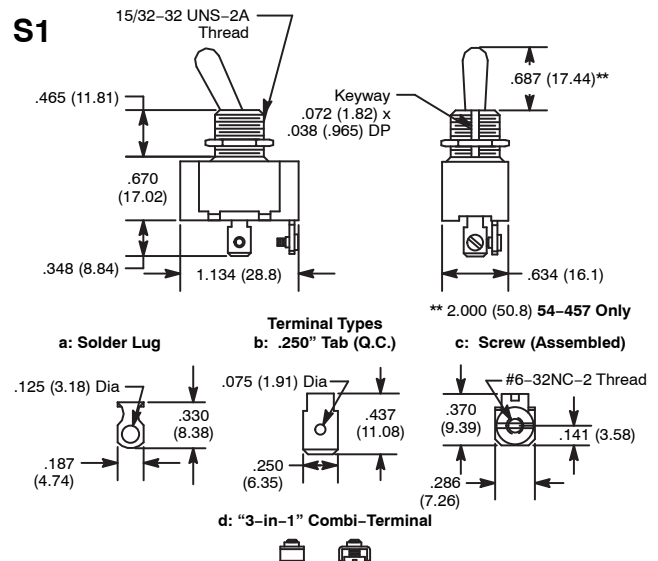


| NTE Type No. | Circuitry | Action |      |       | Actuator           | Diag No. |
|--------------|-----------|--------|------|-------|--------------------|----------|
| 54-001       | SPST      | ON     | NONE | (OFF) | Brass/Nickel Plate | S1c      |
| 54-002       | SPDT      | (ON)   | OFF  | (ON)  | Brass/Nickel Plate | S1c      |
| 54-006       | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1a      |
| 54-007       | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1b      |
| 54-008       | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1c      |
| 54-009       | SPDT      | ON     | OFF  | ON    | Brass/Nickel Plate | S1b      |
| 54-010       | SPDT      | ON     | OFF  | ON    | Brass/Nickel Plate | S1c      |
| 54-023       | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1d      |
| 54-024       | SPDT      | ON     | NONE | ON    | Brass/Nickel Plate | S1d      |
| 54-025       | SPDT      | ON     | OFF  | ON    | Brass/Nickel Plate | S1d      |
| 54-456*      | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1c      |
| 54-457*      | SPST      | (ON)   | NONE | OFF   | Brass/Nickel Plate | S1c      |
| 54-458*      | SPST      | ON     | NONE | OFF   | Brass/Nickel Plate | S1b      |
| 54-459*      | SPDT      | ON     | OFF  | ON    | Brass/Nickel Plate | S1b      |
| 54-659*      | SPDT      | (ON)   | OFF  | (ON)  | Brass/Nickel Plate | S1b      |

SPECIAL NOTE: ( ) = Momentary Function

\* Neoprene Seal Toggle

S1



## Specifications

**Current Rating:** 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** 0° to +150°F (-17.8° to +65.6°C)  
**Electrical Life:** 50,000 cycles maintained, 25,000 cycles momentary  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Refer to Diag No. in Table  
**Mounting Hole:** .500 (12.7)



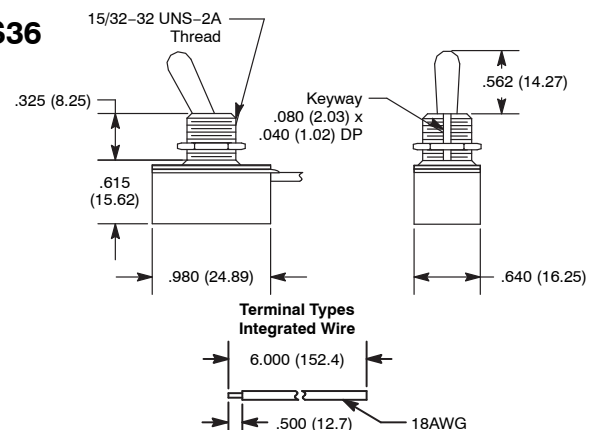
## Features

- Quick Make, Quick Break Wiping Action
- 6" Wire Leads
- Brass or Plastic Actuator



| NTE Type No. | Circuitry | Action |      |    | Actuator           | Diag No. |
|--------------|-----------|--------|------|----|--------------------|----------|
| 54-130       | SPST      | OFF    | NONE | ON | Brass/Nickel Plate | S36      |
| 54-131       | SPST      | OFF    | NONE | ON | Plastic            | S36      |

S36



## Specifications

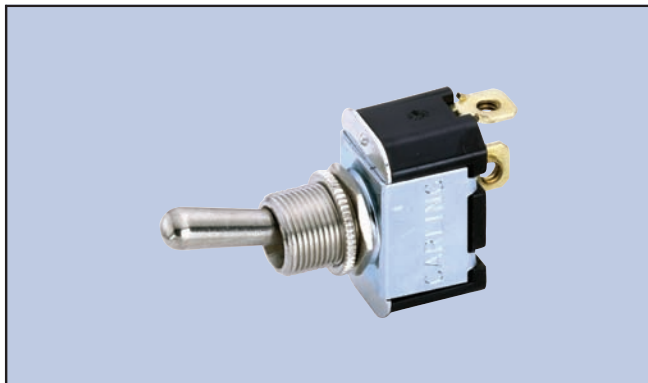
**Current Rating:** 10A 250VAC, 8A 125VDC, 4A 250VDC, 1/3 HP 125VAC  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +149°F (+65°C) Max  
**Electrical Life:** 25,000 cycles Min  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Integrated Wire  
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle



## Features

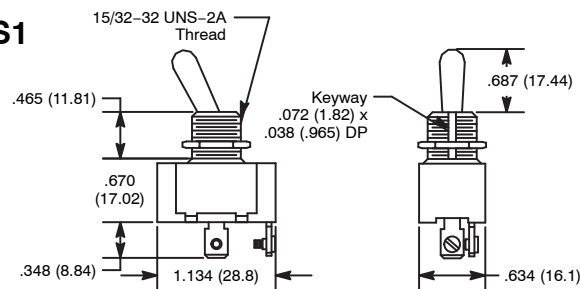
- Slow Make, Slow Break Contacts
- AC Rated, Suitable for Low Voltage DC Also
- Standard .500" Dia Mounting Hole
- Screw Mount Terminals



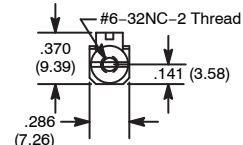
| NTE Type No. | Circuitry | Action |      |      | Actuator           | Diag No. |
|--------------|-----------|--------|------|------|--------------------|----------|
| 54-094       | SPST      | (ON)   | NONE | OFF  | Brass/Nickel Plate | S1c      |
| 54-096       | SPDT      | ON     | NONE | ON   | Brass/Nickel Plate | S1c      |
| 54-097       | SPDT      | ON     | NONE | (ON) | Brass/Nickel Plate | S1c      |
| 54-143       | SPST      | ON     | NONE | OFF  | Brass/Nickel Plate | S1c      |

SPECIAL NOTE: ( ) = Momentary Function

S1



Terminal Types  
c: Screw (Assembled)



## Specifications

**Current Rating:** 6A 125VAC, 3A 250VAC, 1/4 HP 120-240VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** 0° to +150°F (-17.8° to +65.6°C)  
**Electrical Life:** 50,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Screw Type  
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle



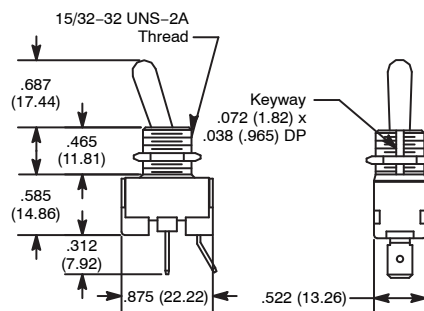
## Features

- AC Rated, General Purpose
- Industry Standard .500" Dia Mounting Hole
- .250" Quick Connect Terminals



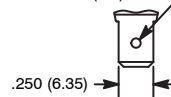
| NTE Type No. | Circuitry | Action |      |     | Actuator           | Diag No. |
|--------------|-----------|--------|------|-----|--------------------|----------|
| 54-005       | SPST      | ON     | NONE | OFF | Brass/Nickel Plate | S3b      |
| 54-098       | SPDT      | ON     | NONE | ON  | Brass/Nickel Plate | S3b      |

S3



Terminal Types

b: .250" Tab (Q.C.)  
.075 (1.9) Dia



## Specifications

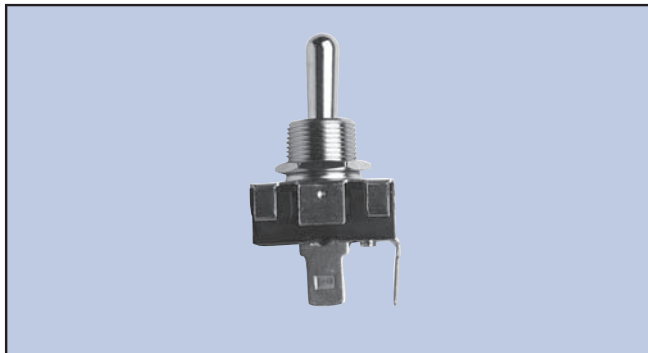
**Current Rating:**  
**54-005:** 20A 125VAC, 10A 250VAC, 1 1/2 HP 125-250VAC  
**54-098:** 10A 125VAC, 5A 250VAC, 1/2 HP 125-250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle

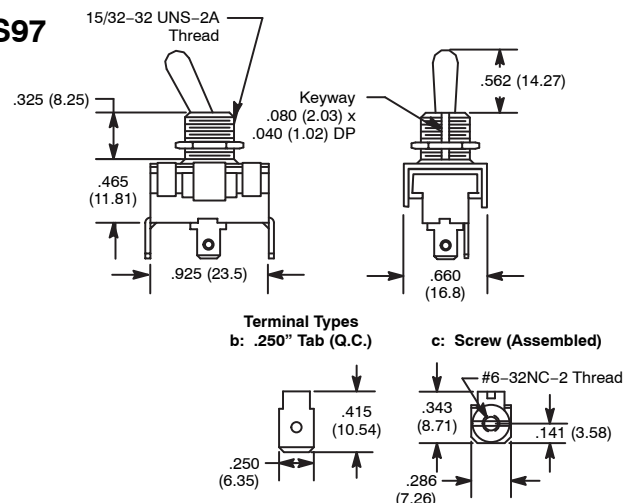


## Features

- Slow-Make/Slow-Break Butt Contact
- 1 HP, 125-250VAC



## S97



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 1 HP 125-250VAC  
**Insulation Resistance:** 10<sup>9</sup> ohms (min.)  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** +14° to +149°F (-10° to +65°C)  
**Electrical Life:** 10,000 cycles (min.) at full load  
**Mechanical Life:** 30,000 cycles (min.)  
**Terminal Type:** Refer to Diag. No. in Table  
**Mounting Hole:** .500 (12.7)

|     | NTE Type No. | Circuitry | Action |      |       | Actuator            | Diag No. |
|-----|--------------|-----------|--------|------|-------|---------------------|----------|
| NEW | 54-579       | SPST      | ON     | NONE | OFF   | Nickel Plated Brass | S97b     |
| NEW | 54-580       | SPST      | (ON)   | NONE | OFF   | Nickel Plated Brass | S97b     |
| NEW | 54-581       | SPST      | ON     | NONE | (OFF) | Nickel Plated Brass | S97b     |
| NEW | 54-582       | SPDT      | ON     | NONE | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-583       | SPDT      | ON     | OFF  | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-584       | SPDT      | (ON)   | NONE | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-585       | SPDT      | (ON)   | OFF  | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-586       | SPDT      | (ON)   | OFF  | (ON)  | Nickel Plated Brass | S97b     |
| NEW | 54-593       | SPST      | ON     | NONE | OFF   | Nickel Plated Brass | S97c     |
| NEW | 54-594       | SPST      | (ON)   | NONE | OFF   | Nickel Plated Brass | S97c     |
| NEW | 54-595       | SPST      | ON     | NONE | (OFF) | Nickel Plated Brass | S97c     |
| NEW | 54-596       | SPDT      | ON     | NONE | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-597       | SPDT      | ON     | OFF  | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-598       | SPDT      | (ON)   | NONE | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-599       | SPDT      | (ON)   | OFF  | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-600       | SPDT      | (ON)   | OFF  | (ON)  | Nickel Plated Brass | S97c     |

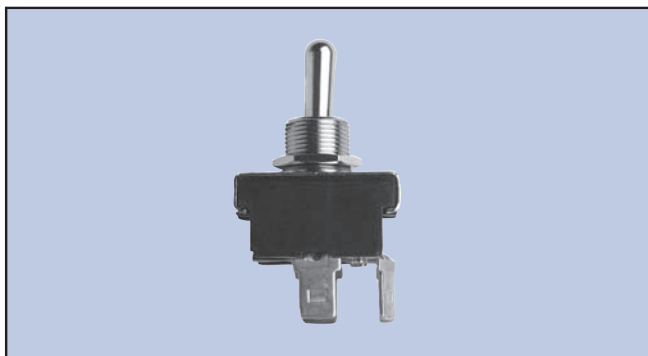
SPECIAL NOTE: ( ) = Momentary Function

# Bat Handle Toggle

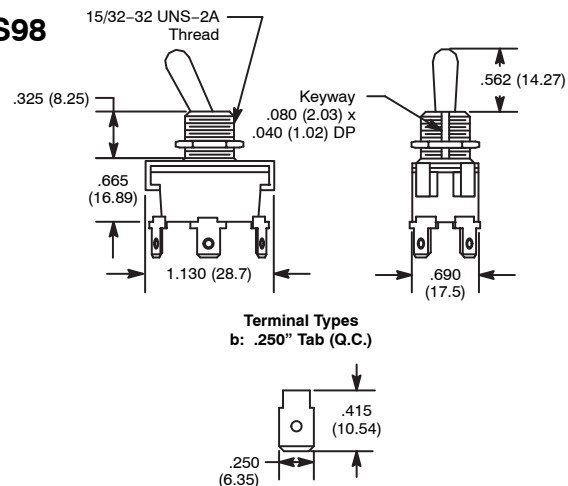


## Features

- Slow-Make/Slow-Break Butt Contact
- 1 HP, 125-250VAC



## S98



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 1 HP 125-250VAC  
**Insulation Resistance:** 10<sup>9</sup> ohms (min.)  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** +14° to +149°F (-10° to +65°C)  
**Electrical Life:** 10,000 cycles (min.) at full load  
**Mechanical Life:** 30,000 cycles (min.)  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .500 (12.7)

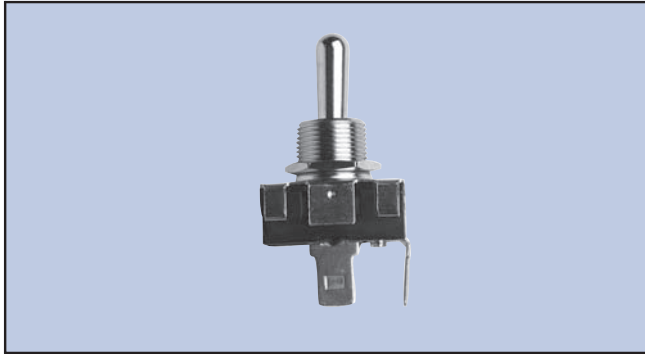
|     | NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|-----|--------------|-----------|--------|------|-----|---------------------|----------|
| NEW | 54-590       | DPST      | ON     | NONE | OFF | Nickel Plated Brass | S98b     |
| NEW | 54-591       | DPDT      | ON     | NONE | ON  | Nickel Plated Brass | S98b     |
| NEW | 54-592       | DPDT      | ON     | OFF  | ON  | Nickel Plated Brass | S98b     |

# Bat Handle Toggle

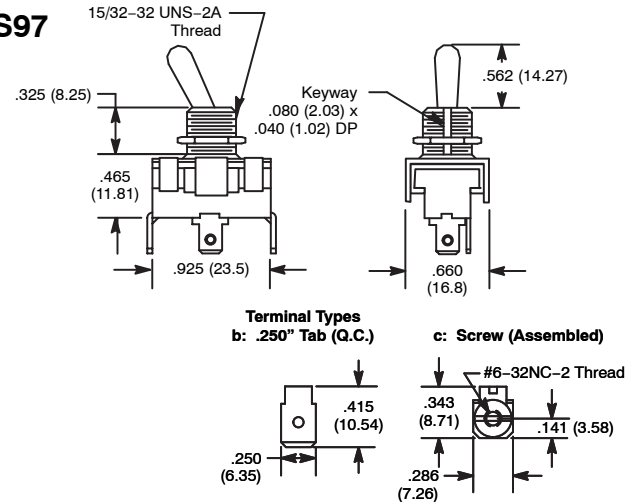


## Features

- Slow-Make/Slow-Break Butt Contact
- 3/4 HP, 125-250VAC



## S97



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC  
**Insulation Resistance:**  $10^9$  ohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +14° to +149°F (-10° to +65°C)  
**Electrical Life:** 10,000 cycles (min.) at full load  
**Mechanical Life:** 30,000 cycles (min.)  
**Terminal Type:** Refer to Diag. No. in Table  
**Mounting Hole:** .500 (12.7)

|     | NTE Type No. | Circuitry | Action |      |       | Actuator            | Diag No. |
|-----|--------------|-----------|--------|------|-------|---------------------|----------|
| NEW | 54-610       | SPST      | ON     | NONE | OFF   | Nickel Plated Brass | S97c     |
| NEW | 54-611       | SPST      | (ON)   | NONE | OFF   | Nickel Plated Brass | S97c     |
| NEW | 54-612       | SPST      | ON     | NONE | (OFF) | Nickel Plated Brass | S97c     |
| NEW | 54-613       | SPDT      | ON     | NONE | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-614       | SPDT      | ON     | OFF  | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-615       | SPDT      | (ON)   | NONE | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-616       | SPDT      | (ON)   | OFF  | ON    | Nickel Plated Brass | S97c     |
| NEW | 54-617       | SPDT      | (ON)   | OFF  | (ON)  | Nickel Plated Brass | S97c     |
| NEW | 54-619       | SPST      | ON     | NONE | OFF   | Nickel Plated Brass | S97b     |
| NEW | 54-620       | SPST      | (ON)   | NONE | OFF   | Nickel Plated Brass | S97b     |
| NEW | 54-621       | SPST      | ON     | NONE | (OFF) | Nickel Plated Brass | S97b     |
| NEW | 54-622       | SPDT      | ON     | NONE | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-623       | SPDT      | ON     | OFF  | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-624       | SPDT      | (ON)   | NONE | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-625       | SPDT      | (ON)   | OFF  | ON    | Nickel Plated Brass | S97b     |
| NEW | 54-626       | SPDT      | (ON)   | OFF  | (ON)  | Nickel Plated Brass | S97b     |

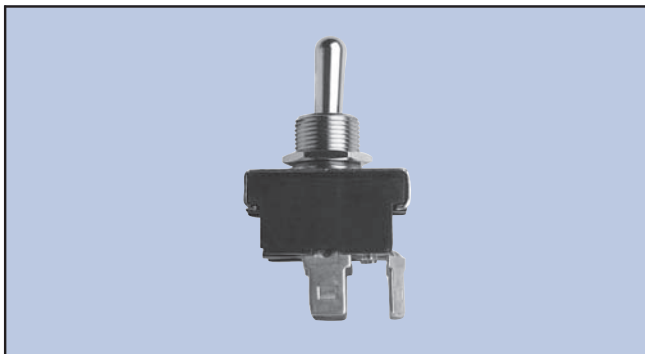
SPECIAL NOTE: ( ) = Momentary Function

# Bat Handle Toggle

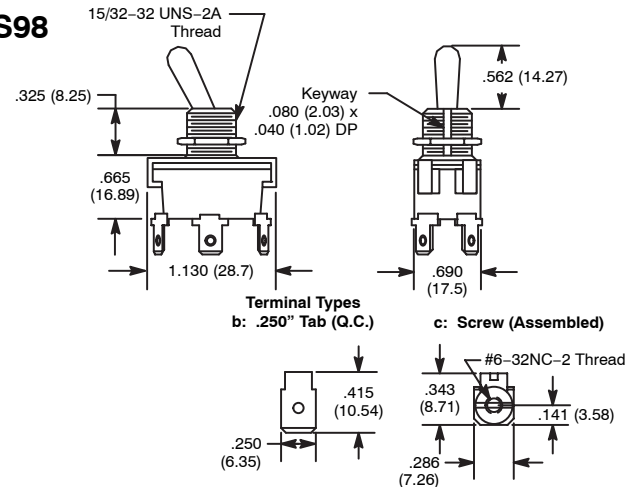


## Features

- Slow-Make/Slow-Break Butt Contact
- 3/4 HP, 125-250VAC



## S98



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC  
**Insulation Resistance:**  $10^9$  ohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +14° to +149°F (-10° to +65°C)  
**Electrical Life:** 10,000 cycles (min.) at full load  
**Mechanical Life:** 30,000 cycles (min.)  
**Terminal Type:** Refer to Diag. No. in Table  
**Mounting Hole:** .500 (12.7)

|     | NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|-----|--------------|-----------|--------|------|-----|---------------------|----------|
| NEW | 54-602       | DPST      | ON     | NONE | OFF | Nickel Plated Brass | S98c     |
| NEW | 54-603       | DPDT      | ON     | NONE | ON  | Nickel Plated Brass | S98c     |
| NEW | 54-604       | DPDT      | ON     | OFF  | ON  | Nickel Plated Brass | S98c     |
| NEW | 54-606       | DPST      | ON     | NONE | OFF | Nickel Plated Brass | S98b     |
| NEW | 54-607       | DPDT      | ON     | NONE | ON  | Nickel Plated Brass | S98b     |
| NEW | 54-608       | DPDT      | ON     | OFF  | ON  | Nickel Plated Brass | S98b     |

# Bat Handle Toggle



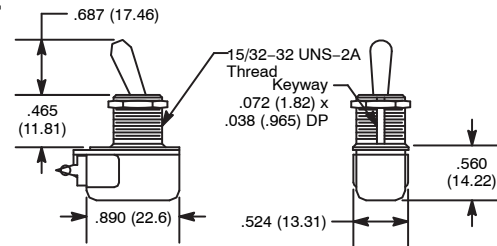
## Features

- Quick Make, Quick Break Contacts
- AC/DC Shallow Back Panel Applications
- Standard .500" Dia Mounting Hole



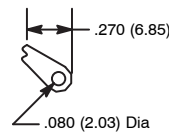
| NTE Type No. | Circuitry | Action |      |     | Actuator           | Diag No. |
|--------------|-----------|--------|------|-----|--------------------|----------|
| 54-070       | SPST      | ON     | NONE | OFF | Brass/Nickel Plate | S14a     |
| 54-071       | SPST      | ON     | NONE | OFF | Brass/Nickel Plate | S14c     |

## S14

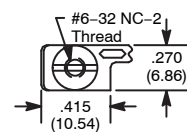


### Terminal Types

#### a: Solder Lug (End)



#### c: Screw (Assembled)



## Specifications

**Current Rating:** 6A 125VAC, 3A 250VAC, AC/DC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** 0° to +150°F (-17.8° to +65.6°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 15,000 cycles  
**Terminal Type:** Refer to Diag No. in Table  
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle



## Features

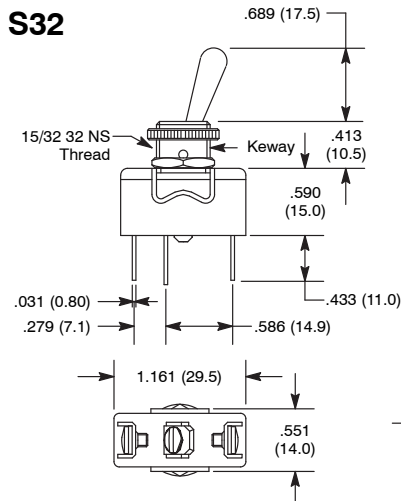
- Waterproof Types Available on Page 17



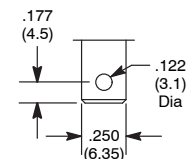
| NTE Type No. | Circuitry | Action |      |      | Actuator            | Diag No. |
|--------------|-----------|--------|------|------|---------------------|----------|
| 54-348       | SPST      | ON     | NONE | OFF  | Nickel Plated Brass | S32a     |
| 54-349       | SPDT      | ON     | NONE | ON   | Nickel Plated Brass | S32a     |
| 54-350       | SPDT      | ON     | OFF  | ON   | Nickel Plated Brass | S32a     |
| 54-351       | SPDT      | (ON)   | NONE | ON   | Nickel Plated Brass | S32a     |
| 54-352       | SPDT      | (ON)   | OFF  | (ON) | Nickel Plated Brass | S32a     |
| 54-353       | SPDT      | ON     | OFF  | (ON) | Nickel Plated Brass | S32a     |
| 54-354       | SPST      | ON     | NONE | OFF  | Nickel Plated Brass | S32c     |
| 54-355       | SPDT      | ON     | NONE | ON   | Nickel Plated Brass | S32c     |
| 54-356       | SPDT      | ON     | OFF  | ON   | Nickel Plated Brass | S32c     |
| 54-357       | SPDT      | (ON)   | NONE | ON   | Nickel Plated Brass | S32c     |
| 54-358       | SPDT      | (ON)   | OFF  | (ON) | Nickel Plated Brass | S32c     |
| 54-359       | SPDT      | ON     | OFF  | (ON) | Nickel Plated Brass | S32c     |

SPECIAL NOTE: ( ) = Momentary Function

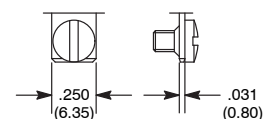
## S32



### a: Solder Lug/Quick Connect



### c: Screw (Assembled)



## Specifications

**Current Rating:**  
**Functions ON-OFF and ON-ON:** 15A 250VAC or 10A 24VDC  
**Functions ON OFF ON:** 15A 250VAC  
**Other Functions:** 15A 125VAC, 12A 250VAC or 5A 25VDC  
**Insulation Resistance:** 1000 Megohms (min.) at 500VDC  
**Dielectric Strength:** 2000V RMS (min.) between terminals  
**Temperature Rating:** -4° to +131°F (-20° to +55°C)  
**Electrical Life:** 10,000 cycles (min.) at full load  
**Terminal Type:** Refer to Diag No. in Table  
**Mounting Hole:** .480 (12.2)

# Bat Handle Toggle



## Features

- Waterproof Types Available on Page 17



| NTE Type No. | Circuitry | Action |      |      | Actuator            | Diag No. |
|--------------|-----------|--------|------|------|---------------------|----------|
| 54-360       | DPDT      | ON     | NONE | ON   | Nickel Plated Brass | S33a     |
| 54-361#      | DPDT      | ON     | OFF  | ON   | Nickel Plated Brass | S33a     |
| 54-362*#     | SP3T      | ON     | ON   | ON   | Nickel Plated Brass | S33a     |
| 54-363#      | DPDT      | (ON)   | NONE | ON   | Nickel Plated Brass | S33a     |
| 54-364#      | DPDT      | (ON)   | OFF  | (ON) | Nickel Plated Brass | S33a     |
| 54-365#      | DPDT      | ON     | OFF  | (ON) | Nickel Plated Brass | S33a     |
| 54-366       | DPST      | ON     | NONE | OFF  | Nickel Plated Brass | S33a     |
| 54-367       | DPST      | ON     | NONE | OFF  | Nickel Plated Brass | S33c     |
| 54-369       | DPDT      | ON     | NONE | ON   | Nickel Plated Brass | S33c     |
| 54-370#      | DPDT      | ON     | OFF  | ON   | Nickel Plated Brass | S33c     |
| 54-371*#     | SP3T      | ON     | ON   | ON   | Nickel Plated Brass | S33c     |
| 54-372#      | DPDT      | (ON)   | NONE | ON   | Nickel Plated Brass | S33c     |
| 54-373##     | DPDT      | (ON)   | OFF  | (ON) | Nickel Plated Brass | S33c     |
| 54-374##     | DPDT      | ON     | OFF  | (ON) | Nickel Plated Brass | S33c     |

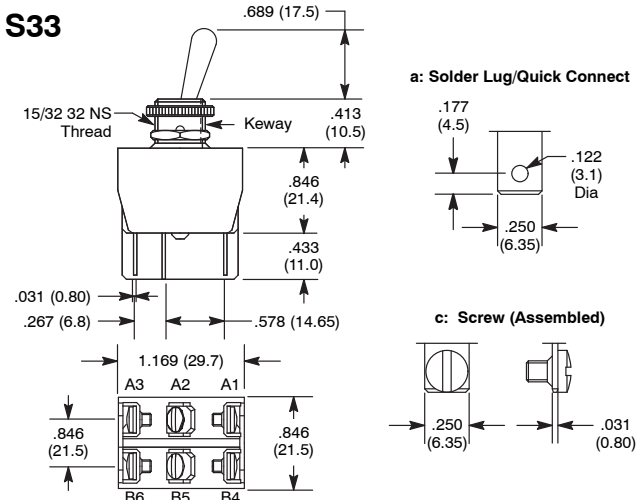
SPECIAL NOTE: ( ) = Momentary Function

\* SP in DP case.

# UL for 10 Amp **ONLY**

## UL for 12 Amp **ONLY**

## S33



## Specifications

### Current Rating:

**ON-OFF and ON-ON:** 15A 250VAC or 10A 24VDC, 15A 12VDC

**ON-OFF-ON:** 15A 250VAC,

**Other Functions:** 15A 125VAC, 12A 250VAC or 5A 25VDC

**Insulation Resistance:** 1000 Megohms (min.) at 500VDC

**Dielectric Strength:** 2000V RMS (min.) between terminals

**Temperature Rating:** -4° to +131°F (-20° to +55°C)

**Electrical Life:** 10,000 cycles (min.) at full load

**Terminal Type:** Refer to Diag No. in Table

**Mounting Hole:** .480 (12.2)

# Bat Handle Toggle



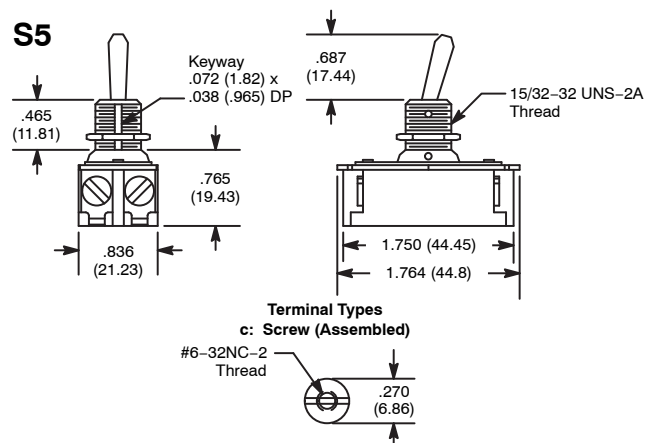
## Features

- Quick Make, Quick Break Contacts
- Suitable for High Amperage AC/DC Motor Control
- Screw Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator           | Diag No. |
|--------------|-----------|--------|------|-----|--------------------|----------|
| 54-055       | DPST      | ON     | NONE | OFF | Brass/Nickel Plate | S5c      |
| 54-056       | SPST      | ON     | NONE | OFF | Brass/Nickel Plate | S5c      |

## S5



## Specifications

**Current Rating:** 16A 125VAC, 8A 250VAC, 1 HP 125-250VAC

**Insulation Resistance:** 100 Megohms (min.)

**Dielectric Strength:** 1000V RMS (min.)

**Temperature Rating:** 0° to +150°F (-17.8° to +65.6°C)

**Electrical Life:** 25,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** Screw Type

**Mounting Hole:** .500 (12.7)

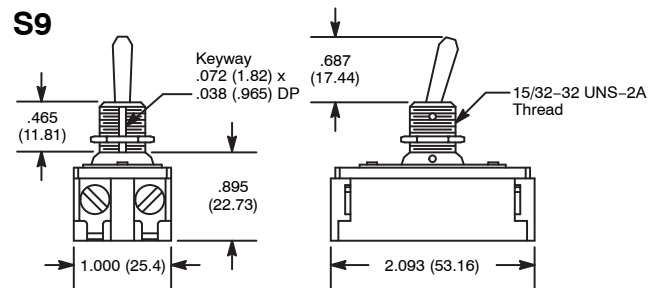


# Bat Handle Toggle



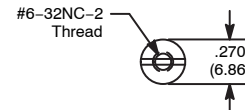
| NTE Type No. | Circuitry | Action |      |     | Actuator           | Diag No. |
|--------------|-----------|--------|------|-----|--------------------|----------|
| 54-057       | DPST      | ON     | NONE | OFF | Brass/Nickel Plate | S9       |

**S9**



**Terminal Types**

**c: Screw (Assembled)**



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 1 1/2 HP 125-250VAC

**Insulation Resistance:** 100 Megohms (min.)

**Dielectric Strength:** 1000V RMS (min.)

**Temperature Rating:** 0°F to +150°F (-17.8°C to +65.6°C)

**Electrical Life:** 25,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** Screw Type

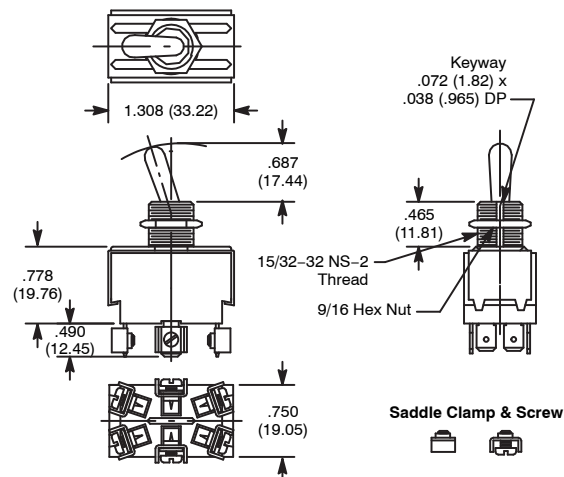
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle



| NTE Type No. | Circuitry | Action |      |     | Actuator           | Diag No. |
|--------------|-----------|--------|------|-----|--------------------|----------|
| 54-026       | DPST      | ON     | NONE | OFF | Brass/Nickel Plate | S8       |
| 54-027       | DPDT      | ON     | NONE | ON  | Brass/Nickel Plate | S8       |
| 54-028       | DPDT      | ON     | OFF  | ON  | Brass/Nickel Plate | S8       |

**S8**



## Specifications

**Current Rating:** 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC

**Insulation Resistance:** 100 Megohms (min.)

**Dielectric Strength:** 1000V RMS (min.)

**Temperature Rating:** +32°F to +185°F (0°C to +85°C)

**Electrical Life:** 50,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** "3-in-1" Combi-Terminal

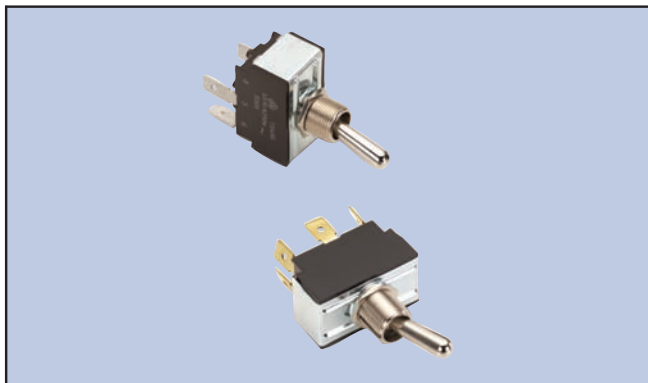
**Mounting Hole:** .500 (12.7)

# Bat Handle Toggle



## Features

- Slow Make, Slow Break Contacts
- Heavy Duty AC Rated Also Suitable for Low Voltage DC Applications
- Industry Standard .500" Dia Mounting Hole
- Various Terminal Selections

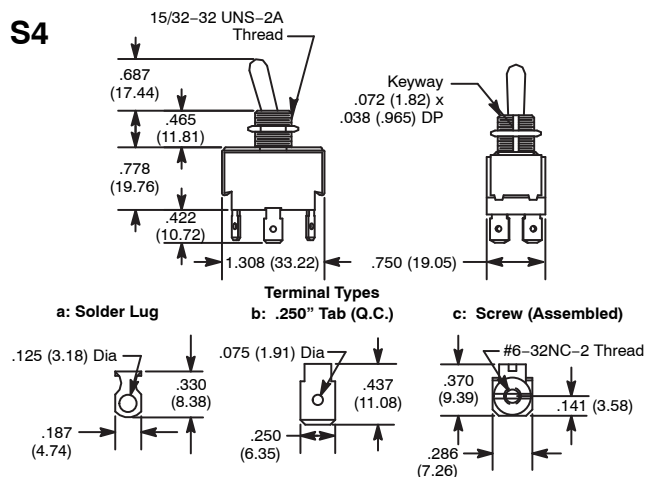


| NTE Type No. | Circuitry | Current Rating | Action        | Actuator           | Diag No. |
|--------------|-----------|----------------|---------------|--------------------|----------|
| 54-003       | DPDT      | A              | ON NONE ON    | Brass/Nickel Plate | S4b      |
| 54-004       | DPST      | A              | ON NONE OFF   | Brass/Nickel Plate | S4b      |
| 54-011       | DPST      | A              | ON NONE OFF   | Brass/Nickel Plate | S4c      |
| 54-012       | DPDT      | A              | ON OFF ON     | Brass/Nickel Plate | S4b      |
| 54-013       | DPDT      | A              | ON OFF ON     | Brass/Nickel Plate | S4c      |
| 54-093       | SPST      | B              | ON NONE OFF   | Brass/Nickel Plate | S4c      |
| 54-095       | SPDT      | B              | ON OFF ON     | Brass/Nickel Plate | S4c      |
| 54-099       | DPDT      | B              | ON NONE ON    | Brass/Nickel Plate | S4c      |
| 54-100       | DPDT      | B              | ON OFF ON     | Brass/Nickel Plate | S4c      |
| 54-101       | DPDT      | C              | ON NONE (ON)  | Brass/Nickel Plate | S4a      |
| 54-103       | SPST      | A              | (ON) NONE OFF | Brass/Nickel Plate | S4c      |
| 54-104       | SPST      | A              | ON NONE (OFF) | Brass/Nickel Plate | S4c      |
| 54-137*      | SPST      | D              | ON NONE OFF   | Brass/Nickel Plate | S4a      |

SPECIAL NOTE: ( ) = Momentary Function

\* SP in DP case.

S4



## Specifications

### Current Rating:

- A: 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC
- B: 20A 125-277VAC, 1 1/2 HP 125VAC, 2 HP 250VAC
- C: 6A 125VAC, 3A 250VAC, 1/4HP 125-250VAC
- D: 20A 250VAC

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V RMS (min.)

Temperature Rating: +32° to +185°F (0° to +85°C)

Electrical Life: 25,000 cycles

Mechanical Life: 100,000 cycles

Terminal Type: Refer to Diag No. in Table

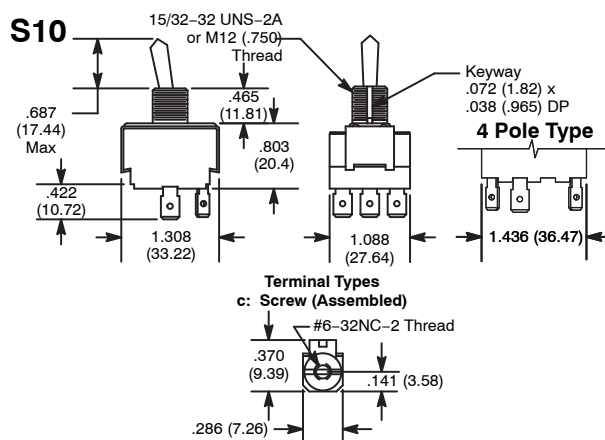
Mounting Hole: .500 (12.7)

# Bat Handle Toggle



| NTE Type No. | Circuitry | Action      | Actuator           | Diag No. |
|--------------|-----------|-------------|--------------------|----------|
| 54-014       | 3PST      | OFF NONE ON | Brass/Nickel Plate | S10c     |
| 54-015       | 3PDT      | ON OFF ON   | Brass/Nickel Plate | S10c     |
| 54-016       | 3PDT      | ON NONE ON  | Brass/Nickel Plate | S10c     |
| 54-017       | 4PDT      | ON OFF ON   | Brass/Nickel Plate | S10c     |
| 54-018       | 4PST      | OFF NONE ON | Brass/Nickel Plate | S10c     |
| 54-019       | 4PDT      | ON NONE ON  | Brass/Nickel Plate | S10c     |

S10



## Specifications

Current Rating: 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC, 1, 2 or 3 Phase

Insulation Resistance: 100 Megohms (min.)

Dielectric Strength: 1000V RMS (min.)

Temperature Rating: 0° to +150°F (-17.8° to +65.6°C)

Electrical Life: 50,000 cycles

Mechanical Life: 100,000 cycles

Terminal Type: Screw Type

Mounting Hole: .500 (12.7) Max.

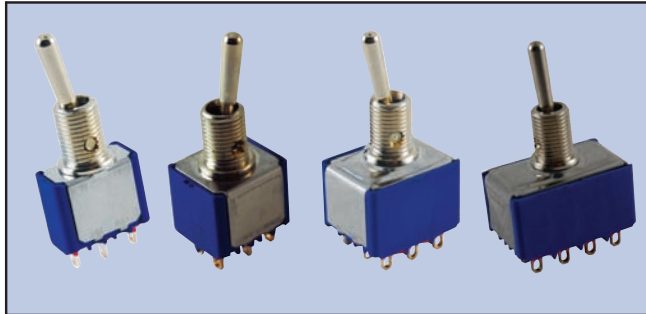


# Bat Handle Mini Toggle

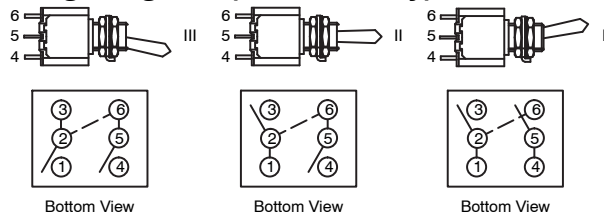


## Features

- SP, DP, 3P & 4P Types
- PC Terminal Types Available (PC suffix)
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC-DC Converters, Motors, etc.

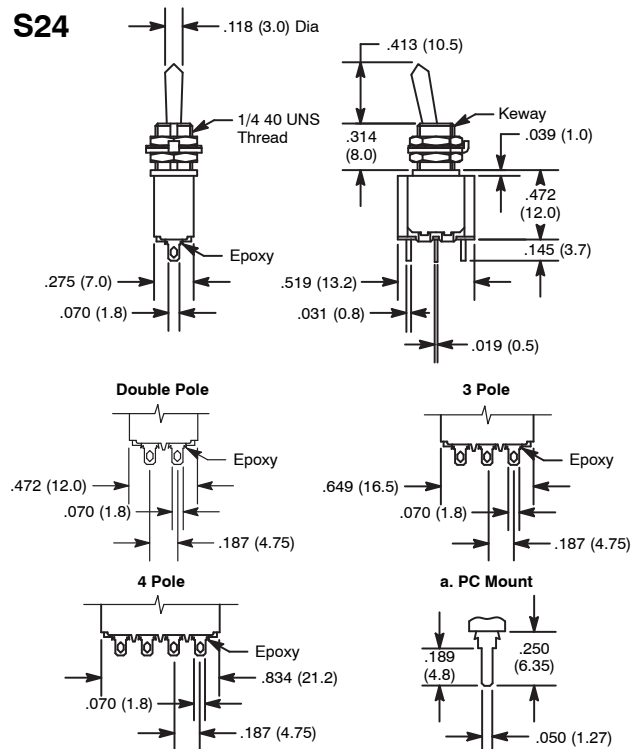


## Wiring Diagram (54-306 Only)



Equivalent to single pole 3 throw switch. Dotted line between terminals 2 & 6 indicate external jumpers to be added by customer.

## S24



## Specifications

**Current Rating:** 6A 125VAC, 3A 250VAC or 4A 30VDC  
5A 120VAC or 28VDC, 2A 250VAC **PC Mount Only**

**Insulation Resistance:** 1000 Megohms (min.) at 500VDC

**Dielectric Strength:** 1000V RMS (min.) between terminals

**Temperature Rating:** -40° to +185°F (-40° to +85°C)

**Electrical Life:** 50,000 cycles (min.)

40,000 cycles (min.) **3 Pole Only**

30,000 cycles (min.) **4 Pole Only**

**Terminal Type:** Refer to Diag No. in Table

**Mounting Hole:** .255 (6.5)

|     | NTE Type No. | Circuitry | Action |      |      | Actuator            | Diag No. |
|-----|--------------|-----------|--------|------|------|---------------------|----------|
|     | 54-301       | SPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-301PC     | SPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24a     |
|     | 54-302       | SPDT      | ON     | NONE | ON   | Chrome Plated Brass | S24      |
| NEW | 54-302PC     | SPDT      | ON     | NONE | ON   | Chrome Plated Brass | S24a     |
|     | 54-303       | SPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24      |
| NEW | 54-303PC     | SPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24a     |
|     | 54-304       | SPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-304PC     | SPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24a     |
|     | 54-305       | SPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-305PC     | SPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24a     |
|     | 54-306*      | SP3T      | ON     | ON   | ON   | Chrome Plated Brass | S24      |
|     | 54-307       | DPDT      | ON     | NONE | ON   | Chrome Plated Brass | S24      |
| NEW | 54-307PC     | DPDT      | ON     | NONE | ON   | Chrome Plated Brass | S24a     |
|     | 54-308       | DPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24      |
| NEW | 54-308PC     | DPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24a     |
|     | 54-309       | DPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-309PC     | DPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24a     |
|     | 54-310       | DPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-310PC     | DPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24a     |
|     | 54-311       | DPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-311PC     | DPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24a     |
|     | 54-312       | 4PDT      | ON     | NONE | ON   | Chrome Plated Brass | S24      |
| NEW | 54-312PC     | 4PDT      | ON     | NONE | ON   | Chrome Plated Brass | S24a     |
|     | 54-313       | 4PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24      |
| NEW | 54-313PC     | 4PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24a     |
|     | 54-314       | 4PDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24      |
|     | 54-315       | 4PDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24      |
|     | 54-316       | 4PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-316PC     | 4PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24a     |
|     | 54-323       | 3PDT      | ON     | NONE | ON   | Chrome Plated Brass | S24      |
| NEW | 54-323PC     | 3PDT      | ON     | NONE | ON   | Chrome Plated Brass | S24a     |
|     | 54-324       | 3PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24      |
| NEW | 54-324PC     | 3PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S24a     |
|     | 54-325       | 3PDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S24      |
|     | 54-326       | 3PDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S24      |
|     | 54-327       | 3PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24      |
| NEW | 54-327PC     | 3PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S24a     |

SPECIAL NOTE: ( ) = Momentary Function

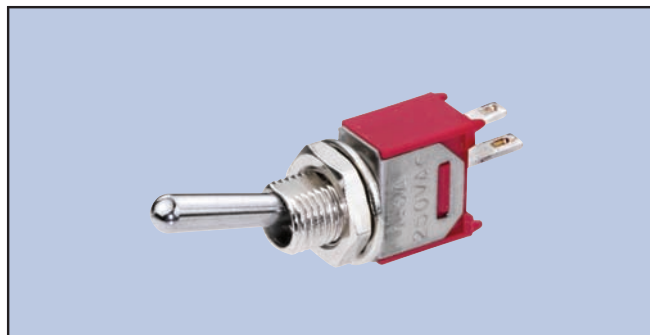
\* SP in DP case.

# Bat Handle Subminiature Toggle



## Features

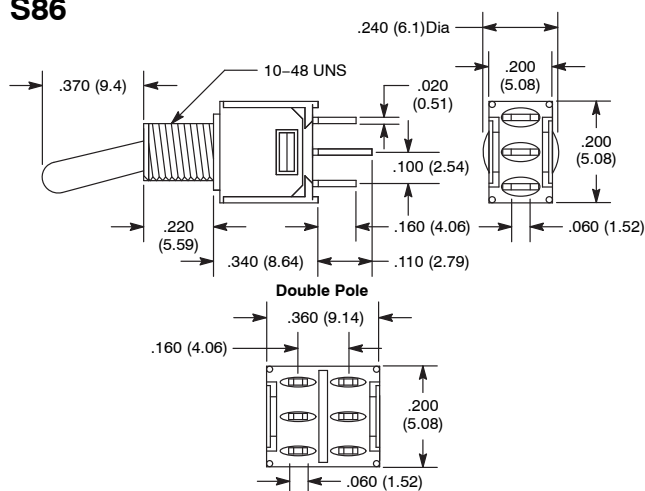
- Single and Double Pole Types
- Epoxy Sealed Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|--------------|-----------|--------|------|-----|---------------------|----------|
| 54-140       | SPST      | ON     | NONE | OFF | Chrome Plated Brass | S86      |
| 54-141       | SPDT      | ON     | NONE | ON  | Chrome Plated Brass | S86      |
| 54-142       | DPDT      | ON     | NONE | ON  | Chrome Plated Brass | S86      |

SPECIAL NOTE: ( ) = Momentary Function

## S86



## Specifications

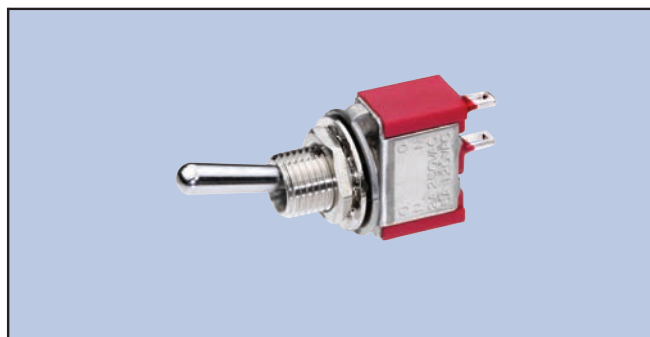
**Current Rating:** 3A 120VAC or 28VDC, 1.5A 250VAC  
**Insulation Resistance:** 1000 Megohms (min.)  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -22° to +185°F (-30° to +85°C)  
**Electrical Life:** 30,000 cycles (min.)  
**Terminal Type:** Solder Lug  
**Mounting Hole:** .192 (4.9)

# Bat Handle Subminiature Toggle



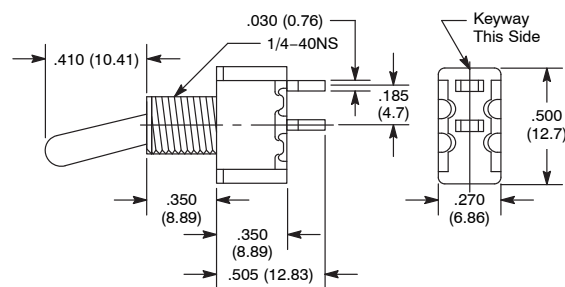
## Features

- Epoxy Sealed Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|--------------|-----------|--------|------|-----|---------------------|----------|
| 54-395       | SPST      | ON     | NONE | OFF | Chrome Plated Brass | S95      |

## S95



## Specifications

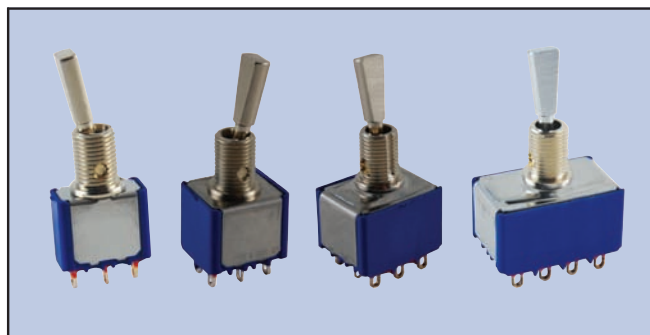
**Current Rating:** 5A 120VAC or 28VDC, 2A 250VAC  
**Insulation Resistance:** 1000 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** -22° to +266°F (-30° to +130°C)  
**Electrical Life:** 50,000 cycles (min.)  
**Terminal Type:** Solder Lug  
**Mounting Hole:** .250 (6.35)

# Flatted Handle Mini Toggle



## Features

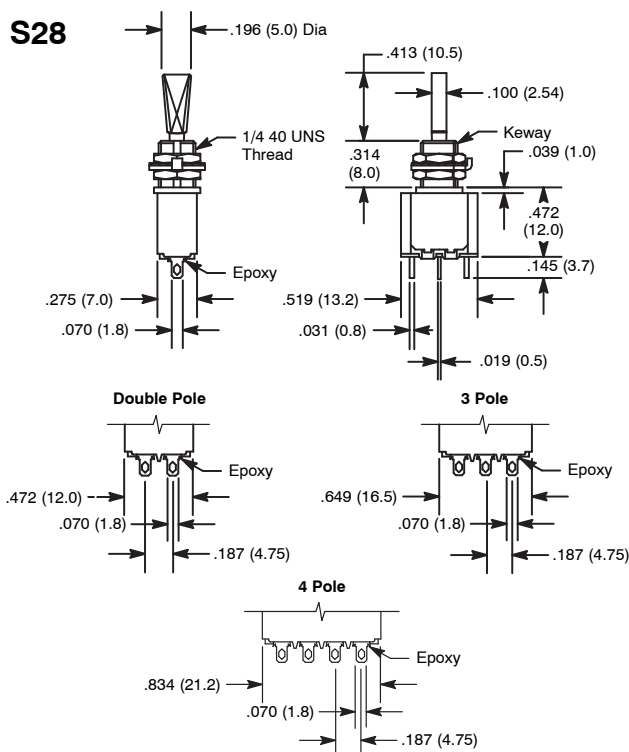
- SP, DP, 3P & 4P Types
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC-DC Converters, Motors, etc.



| NTE Type No. | Circuitry | Action |      |      | Actuator            | Diag No. |
|--------------|-----------|--------|------|------|---------------------|----------|
| 54-328       | SPDT      | ON     | NONE | ON   | Chrome Plated Brass | S28      |
| 54-329       | SPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S28      |
| 54-330       | SPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-331       | SPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-332       | SPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S28      |
| 54-333       | DPDT      | ON     | NONE | ON   | Chrome Plated Brass | S28      |
| 54-334       | DPDT      | ON     | OFF  | ON   | Chrome Plated Brass | S28      |
| 54-335       | DPDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-336       | DPDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-337       | DPDT      | ON     | NONE | (ON) | Chrome Plated Brass | S28      |
| 54-338       | 3PDT      | ON     | NONE | ON   | Chrome Plated Brass | S28      |
| 54-339       | 3PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S28      |
| 54-340       | 3PDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-341       | 3PDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-342       | 3PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S28      |
| 54-343       | 4PDT      | ON     | NONE | ON   | Chrome Plated Brass | S28      |
| 54-344       | 4PDT      | ON     | OFF  | ON   | Chrome Plated Brass | S28      |
| 54-345       | 4PDT      | (ON)   | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-346       | 4PDT      | ON     | OFF  | (ON) | Chrome Plated Brass | S28      |
| 54-347       | 4PDT      | ON     | NONE | (ON) | Chrome Plated Brass | S28      |

SPECIAL NOTE: ( ) = Momentary Function

## S28



## Specifications

**Current Rating:** 6A 125VAC, 3A 250VAC or 4A 30VDC  
**Insulation Resistance:** 1000 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1000V RMS (min.) between terminals  
**Temperature Rating:** -40° to +185°F (-40° to +85°C)  
**Electrical Life:** 50,000 cycles (min.)  
 40,000 cycles (min.) **3 Pole Only**  
 30,000 cycles (min.) **4 Pole Only**  
**Terminal Type:** Solder Lug  
**Mounting Hole:** .255 (6.5)

# Nylon Paddle Toggle



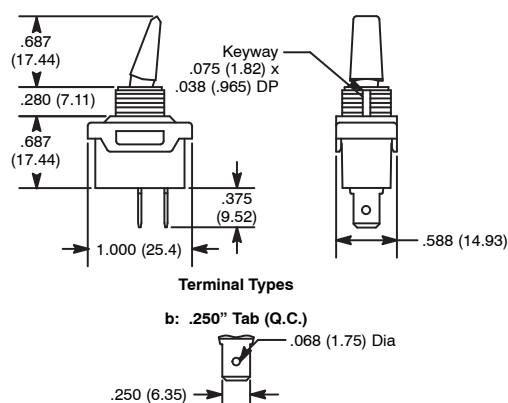
## Features

- Nylon Insulated Toggle
- Self-Cleaning Wiping Contacts
- Industry Standard .500" Dia Mounting Hole
- Support Double Insulated Requirements



| NTE Type No. | Circuitry | Action |      |    | Actuator    | Diag No. |
|--------------|-----------|--------|------|----|-------------|----------|
| 54-020       | SPST      | OFF    | NONE | ON | Black Nylon | S6b      |
| 54-021       | SPDT      | ON     | NONE | ON | Black Nylon | S6b      |
| 54-022       | SPDT      | ON     | OFF  | ON | Black Nylon | S6b      |

S6



## Specifications

**Current Rating:** 20A 125VAC, 10A 250VAC, 1 1/2 HP 125-250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .500 (12.7)

# Nylon Paddle Toggle



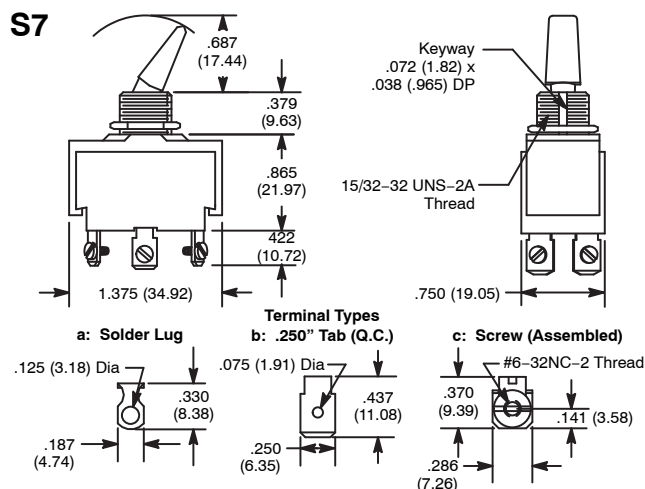
## Features

- Slow Make, Slow Break Contacts
- Heavy Duty AC Rated Also Suitable for Low Voltage DC Applications
- Industry Standard .500" Dia Mounting Hole



| NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|--------------|-----------|--------|------|-----|---------------------|----------|
| 54-110       | SPST      | ON     | NONE | OFF | Black Polycarbonate | S7c      |
| 54-111       | SPDT      | ON     | NONE | ON  | Black Polycarbonate | S7c      |
| 54-119       | SPDT      | ON     | OFF  | ON  | Black Polycarbonate | S7b      |
| 54-107       | DPST      | ON     | NONE | OFF | Black Polycarbonate | S7b      |
| 54-112       | DPST      | ON     | NONE | OFF | Black Polycarbonate | S7c      |
| 54-084       | DPDT      | ON     | NONE | ON  | Black Polycarbonate | S7a      |
| 54-085       | DPDT      | ON     | OFF  | ON  | Black Polycarbonate | S7a      |
| 54-108       | DPDT      | ON     | NONE | ON  | Black Polycarbonate | S7b      |
| 54-109       | DPDT      | ON     | OFF  | ON  | Black Polycarbonate | S7b      |
| 54-113       | DPDT      | ON     | NONE | ON  | Black Polycarbonate | S7c      |
| 54-120       | DPDT      | ON     | OFF  | ON  | Black Polycarbonate | S7c      |

S7



## Specifications

**Current Rating:**  
**54-084 & 54-085:** 6A 125VAC, 3A 250VAC, 1/4 HP 125-250VAC  
**All Other Devices:** 20A 125-277VAC, 1 1/2 HP 125VAC, 2 HP 250VAC  
**Insulation Resistance:** 100 Megohms (min.)  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** +32° to +185°F (0° to +85°C)  
**Electrical Life:** 50,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Refer to Diag No. in Table  
**Mounting Hole:** .500 (12.7)

# Nylon Paddle Toggle



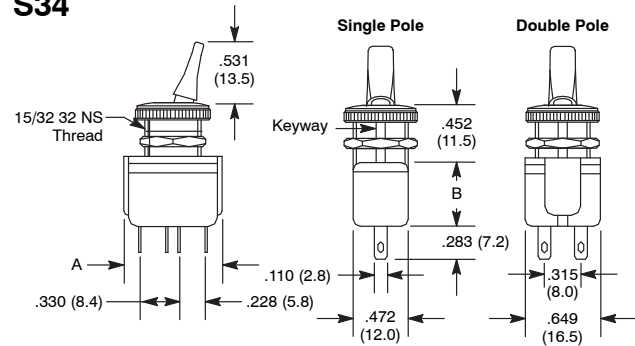
## Features

- Quick Connect Terminals
- Insulated Actuator



| NTE Type No. | Circuitry | Action |      |     | Actuator            | Diag No. |
|--------------|-----------|--------|------|-----|---------------------|----------|
| 54-317       | SPDT      | ON     | NONE | ON  | Black Polyamide 6-6 | S34      |
| 54-318       | SPDT      | ON     | OFF  | ON  | Black Polyamide 6-6 | S34      |
| 54-319       | SPST      | ON     | NONE | OFF | Black Polyamide 6-6 | S34      |
| 54-320       | DPST      | ON     | NONE | OFF | Black Polyamide 6-6 | S34      |
| 54-321       | DPDT      | ON     | NONE | ON  | Black Polyamide 6-6 | S34      |
| 54-322       | DPDT      | ON     | OFF  | ON  | Black Polyamide 6-6 | S34      |

## S34



| Device Type | A           | B           |
|-------------|-------------|-------------|
| Single Pole | .748 (19.0) | .551 (14.0) |
| Double Pole | .826 (21.0) | .590 (15.0) |

## Specifications

**Current Rating:** 6A 125VAC, 4A 250VAC

**Insulation Resistance:** 1000 Megohms (min.) at 500VDC

**Dielectric Strength:** 2000V RMS (min.) between terminals

**Temperature Rating:** -4° to +131°F (-20° to +55°C)

**Electrical Life:** 10,000 cycles (min.)

**Terminal Type:** Solder Lug/Quick Connect

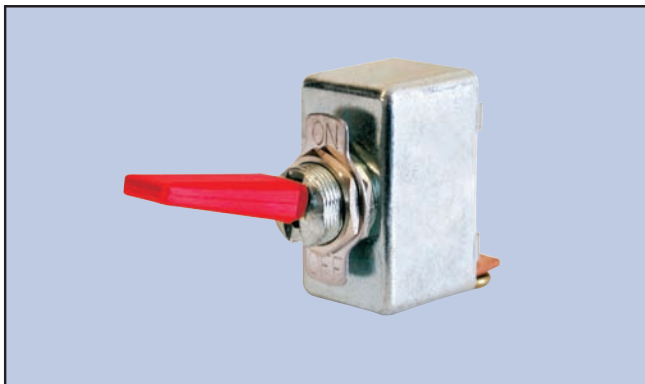
**Mounting Hole:** .492 (12.5)

# Paddle Handle Toggle



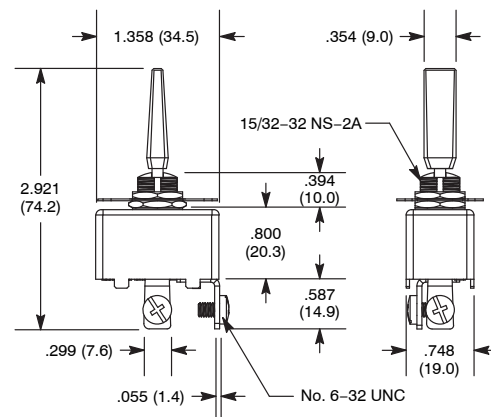
## Features

- 50 Amps at 12VDC
- Suitable for Low Voltage, High Amperage Applications
- Screw Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator             |        | Diag No. |
|--------------|-----------|--------|------|-----|----------------------|--------|----------|
|              |           |        |      |     | Material             | Color  |          |
| 54-560       | SPST      | ON     | NONE | OFF | ABS                  | Black  | S26      |
| 54-561       | SPST      | ON     | NONE | OFF |                      | Red    | S26      |
| 54-562       | SPST      | ON     | NONE | OFF | ABS w/Chrome Plating | Chrome | S26      |

## S26



## Specifications

**Current Rating:** 50A 12VDC

**Insulation Resistance:** 100 Megohms (min.) at 500VDC

**Dielectric Strength:** 1500V RMS (min.)

**Temperature Rating:** -4° to +180°F (-20° to +85°C)

**Electrical Life:** 25,000 cycles

**Mechanical Life:** 100,000 cycles

**Terminal Type:** Screw Type

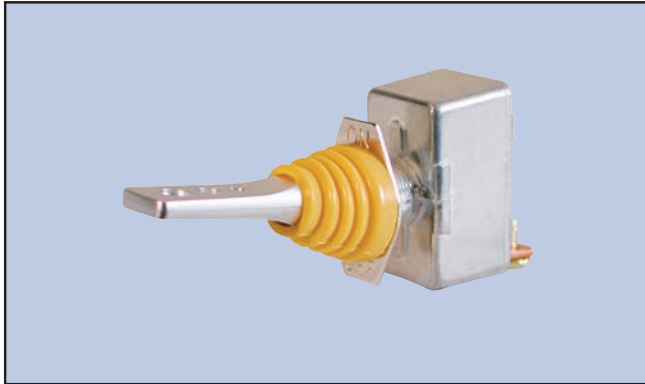
**Mounting Hole:** .500 (12.7)

# Paddle Handle Toggle

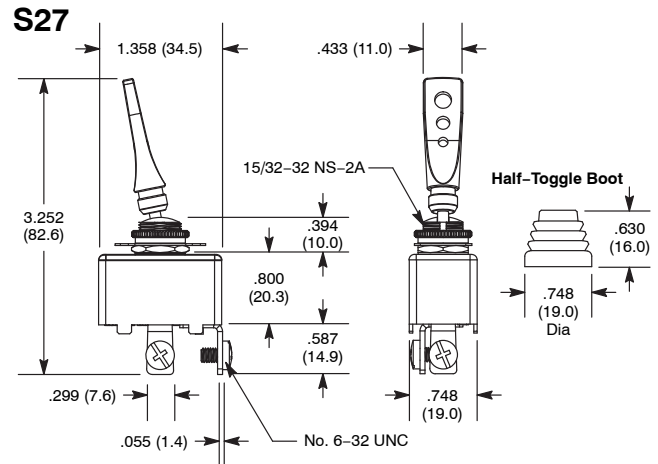


## Features

- 50 Amps at 12VDC
- Interchangeable Boots (Red, Black, Yellow and Blue) Included
- Screw Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator      | Diag No. |
|--------------|-----------|--------|------|-----|---------------|----------|
| 54-563       | SPST      | ON     | NONE | OFF | Chrome Plated | S27      |



## Specifications

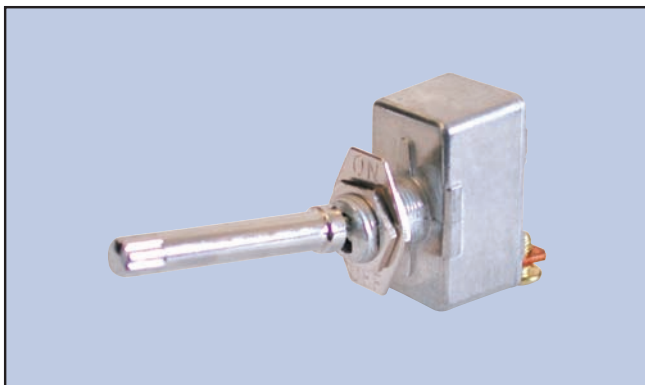
**Current Rating:** 50A 12VDC  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +180°F (-20° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Screw Type  
**Mounting Hole:** .500 (12.7)

# Long Bat Handle Toggle

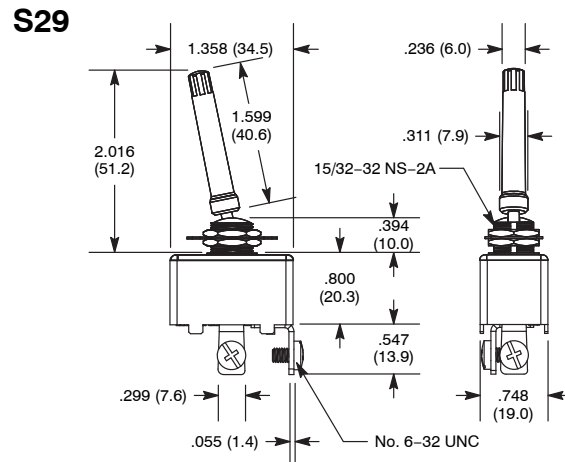


## Features

- 50 Amps at 12VDC
- 1 5/8" Long Bat Handle
- Screw Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator      | Diag No. |
|--------------|-----------|--------|------|-----|---------------|----------|
| 54-564       | SPST      | ON     | NONE | OFF | Chrome Plated | S29      |



## Specifications

**Current Rating:** 50A 12VDC  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +180°F (-20° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Screw Type  
**Mounting Hole:** .500 (12.7)

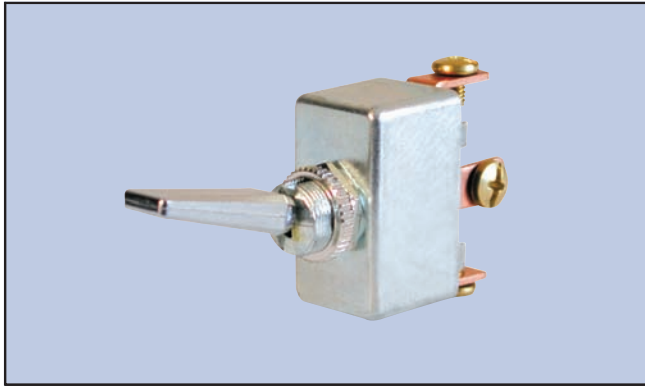


# Paddle Toggle



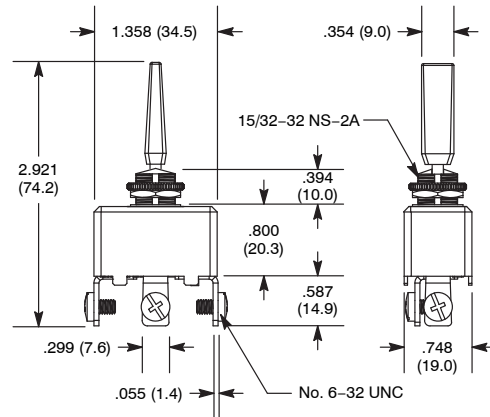
## Features

- 50 Amps at 12VDC
- Screw Terminals



| NTE Type No. | Circuitry | Action |     |    | Actuator      | Diag No. |
|--------------|-----------|--------|-----|----|---------------|----------|
| 54-565       | SPDT      | ON     | OFF | ON | Chrome Plated | S29      |

## S30



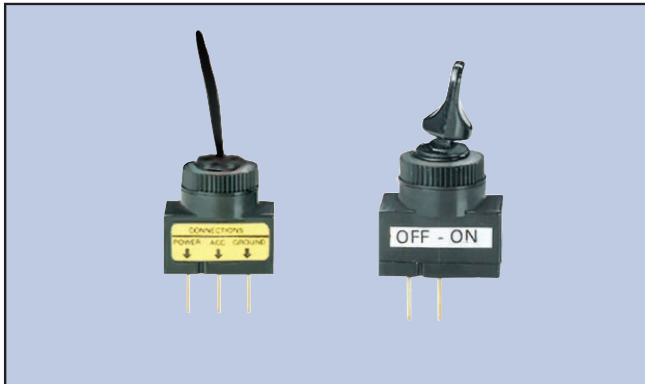
## Specifications

**Current Rating:** 50A 12VDC  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1500V RMS (min.)  
**Temperature Rating:** -4° to +180°F (-20° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** Screw Type  
**Mounting Hole:** .500 (12.7)

# On/Off Bat Handle and Duckbill Toggle

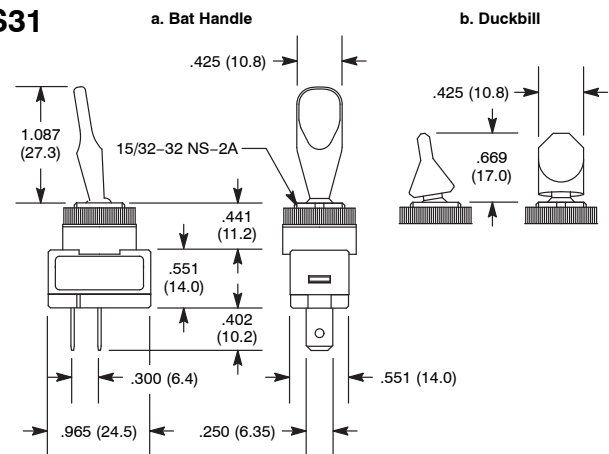
## Features

- Illuminated Types Available on Page 18
- Bat Handle (54-566) and Duckbill (54-571) Types
- .250" Quick-Connect Terminals



| NTE Type No. | Circuitry | Action |      |     | Actuator               | Diag No. |
|--------------|-----------|--------|------|-----|------------------------|----------|
| 54-566       | SPST      | ON     | NONE | OFF | Black Brushed Aluminum | S31a     |
| 54-571       | SPST      | ON     | NONE | OFF |                        | S31b     |

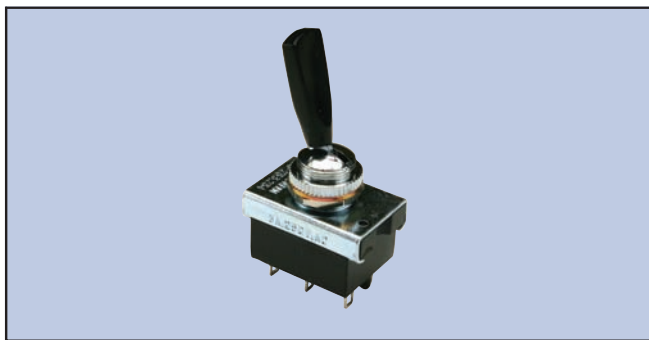
## S31



## Specifications

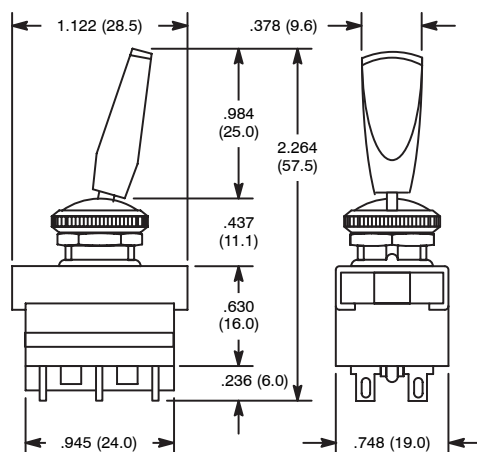
**Current Rating:** 20A 12VDC  
**Insulation Resistance:** 100 Megohms (min.) at 500VDC  
**Dielectric Strength:** 1000V RMS (min.)  
**Temperature Rating:** -4° to +180°F (-20° to +85°C)  
**Electrical Life:** 25,000 cycles  
**Mechanical Life:** 100,000 cycles  
**Terminal Type:** .250" Tab Q.C.  
**Mounting Hole:** .500 (12.7)

# Paddle Toggle



| NTE<br>Type No. | Circuitry | Action |     |    | Actuator        | Diag<br>No. |
|-----------------|-----------|--------|-----|----|-----------------|-------------|
| 54-381          | DPDT      | ON     | OFF | ON | Black ABS Resin | S69         |

**S69**



## Specifications

**Current Rating:** 6A 250VAC

**Insulation Resistance:** 100 Megohms (min.) at 500VDC

**Dielectric Strength:** 1500V RMS (min.)

**Temperature Rating:** +14° to +131°F (-10° to +55°C)

**Electrical Life:** 6,000 cycles

**Mechanical Life:** 30,000 cycles

**Terminal Type:** Solder Lug

**Mounting Hole:** .472 (12.0)