

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

Bat Handle Toggle



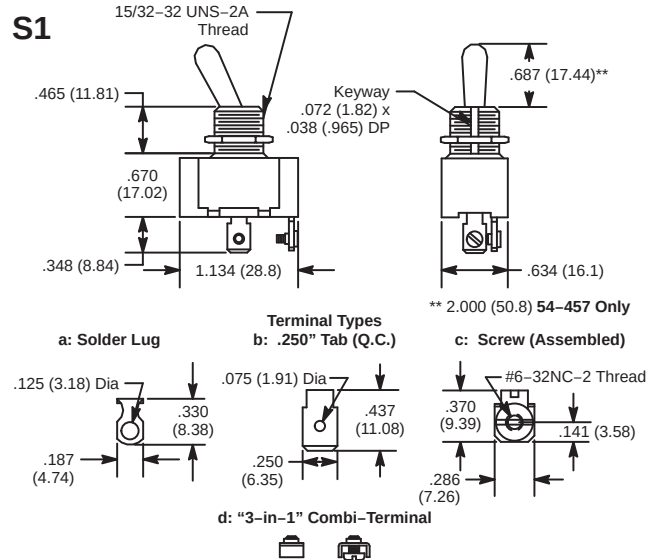
Features

- 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

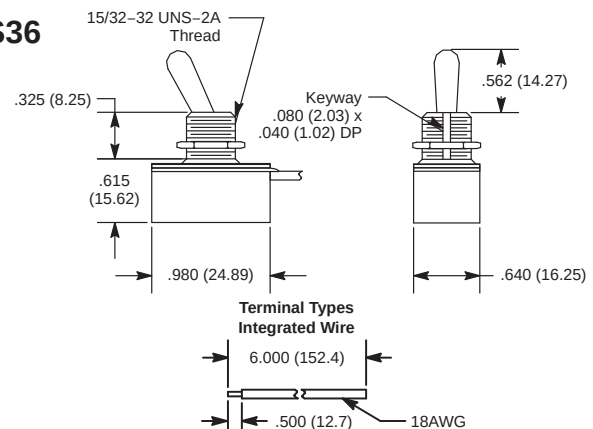
S1



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)

S36



Specifications

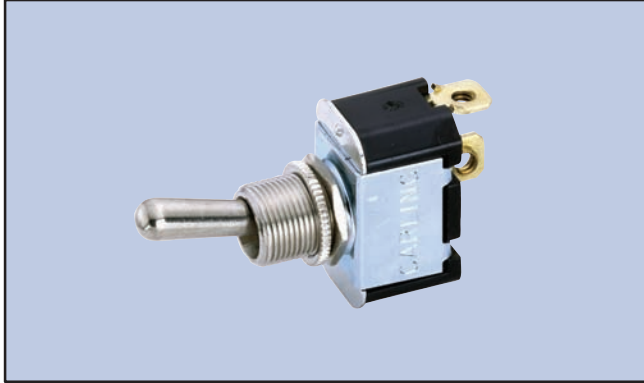
Current Rating: 10A 250VAC, 8A 125VDC, 4A 250VDC, 1/3 HP 125VAC
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +149°F (+65°C) Max
Electrical Life: 25,000 cycles Min
Mechanical Life: 100,000 cycles
Terminal Type: Integrated Wire
Mounting Hole: .500 (12.7)

Bat Handle Toggle

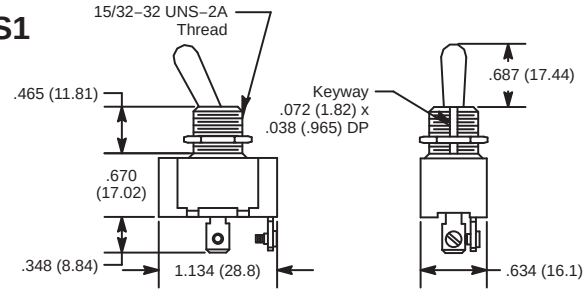


Features

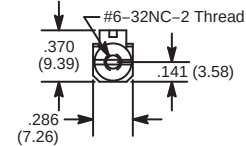
- Slow Make, Slow Break Contacts
- AC Rated, Suitable for Low Voltage DC Also
- Standard .500" Dia Mounting Hole
- Screw Mount Terminals



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)

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

Bat Handle Toggle

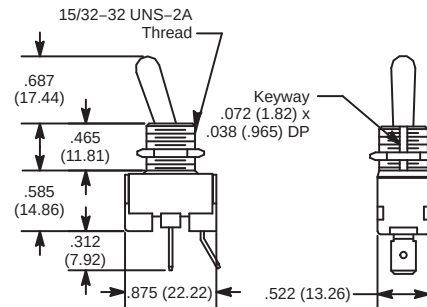


Features

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

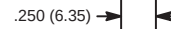


S3



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)

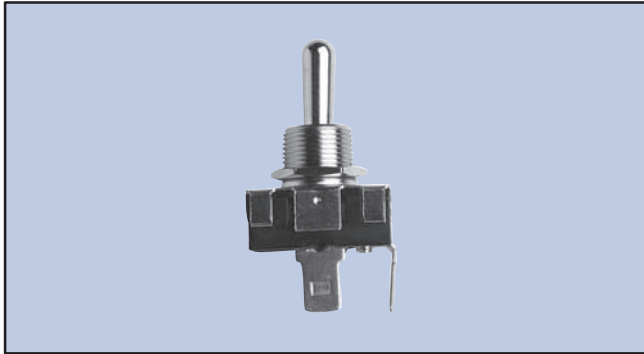
NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-005	SPST	ON	NONE	OFF	Brass/Nickel Plate	S3b
54-098	SPDT	ON	NONE	ON	Brass/Nickel Plate	S3b

Bat Handle Toggle



Features

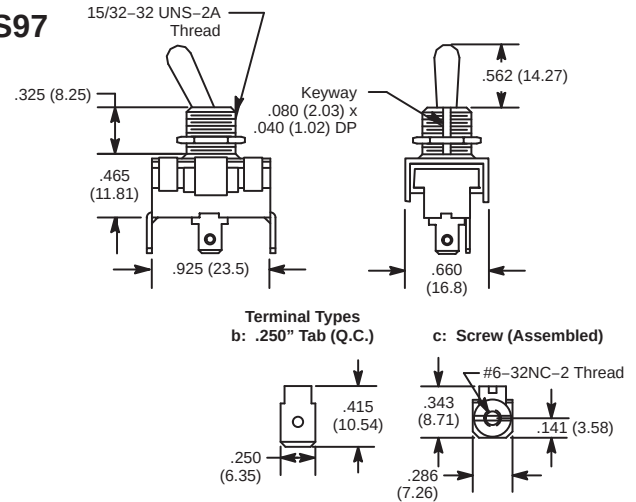
- Slow-Make/Slow-Break Butt Contact
- 1 HP, 125-250VAC



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

SPECIAL NOTE: () = Momentary Function

S97



Specifications

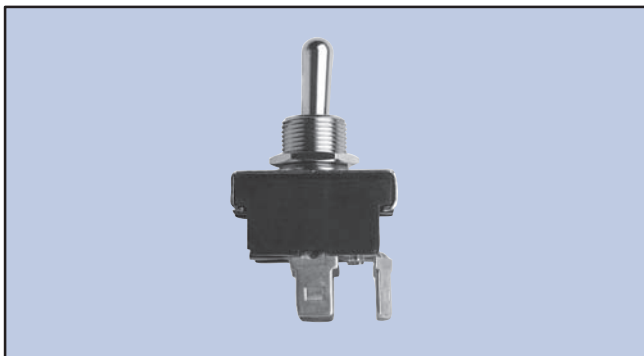
Current Rating: 20A 125VAC, 10A 250VAC, 1 HP 125-250VAC
Insulation Resistance: 10^9 ohms (min.)
Dielectric Strength: 1500V RMS (min.)
Temperature Rating: +14° to +149°F (-10° to +65°C)
Electrical Life: 10,000 cycles (min.) at full load
Mechanical Life: 30,000 cycles (min.)
Terminal Type: Refer to Diag.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

Bat Handle Toggle



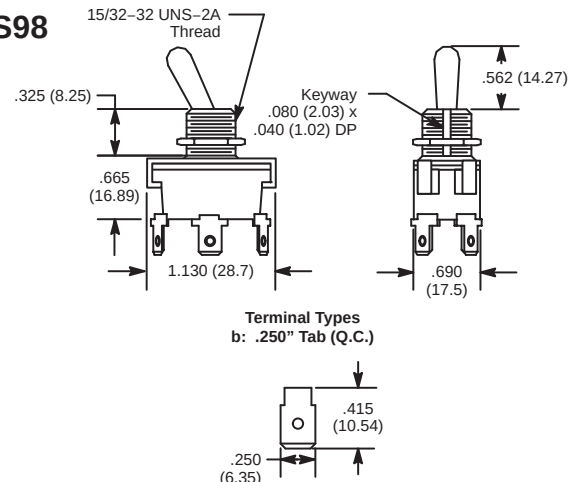
Features

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



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

S98



Specifications

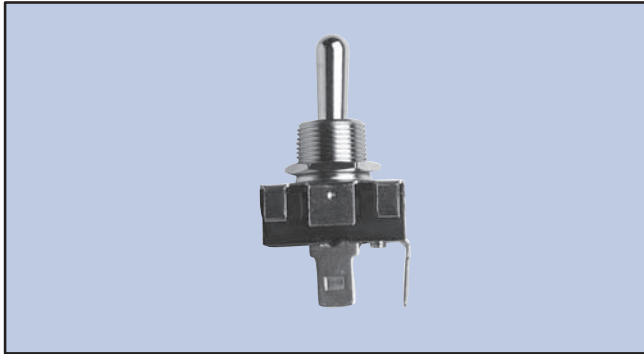
Current Rating: 20A 125VAC, 10A 250VAC, 1 HP 125-250VAC
Insulation Resistance: 10^9 ohms (min.)
Dielectric Strength: 1500V RMS (min.)
Temperature Rating: +14° to +149°F (-10° to +65°C)
Electrical Life: 10,000 cycles (min.) at full load
Mechanical Life: 30,000 cycles (min.)
Terminal Type: .250" Tab Q.C.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

Bat Handle Toggle



Features

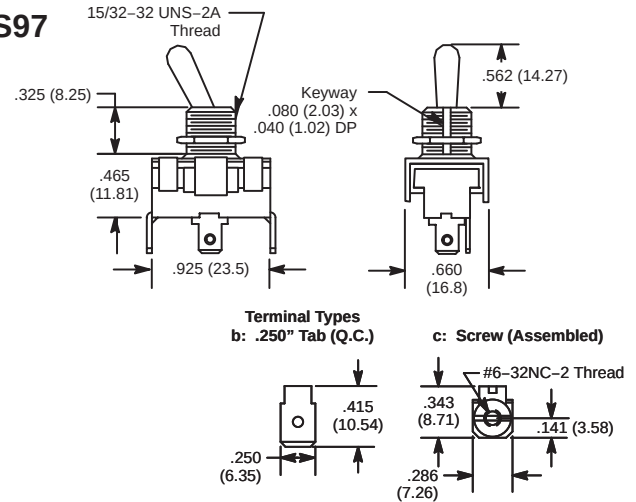
- Slow-Make/Slow-Break Butt Contact
- 3/4 HP, 125-250VAC



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

SPECIAL NOTE: () = Momentary Function

S97



Specifications

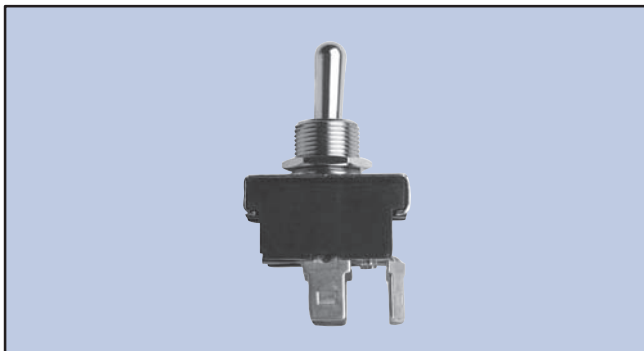
Current Rating: 20A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC
Insulation Resistance: 10^9 ohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +14° to +149°F (-10° to +65°C)
Electrical Life: 10,000 cycles (min.) at full load
Mechanical Life: 30,000 cycles (min.)
Terminal Type: Refer to Diag.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

Bat Handle Toggle



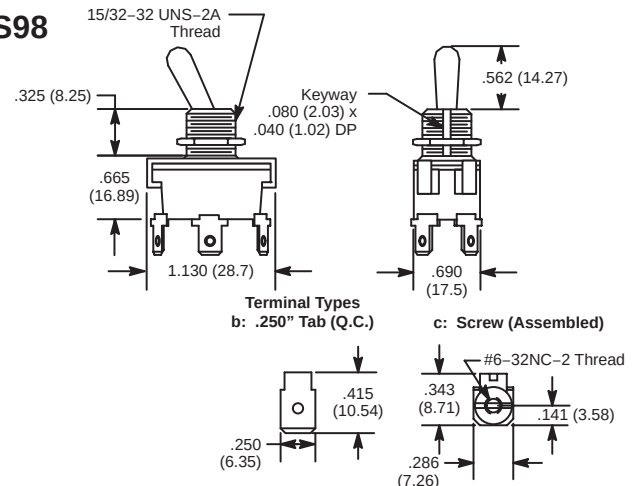
Features

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



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

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)

Bat Handle Toggle



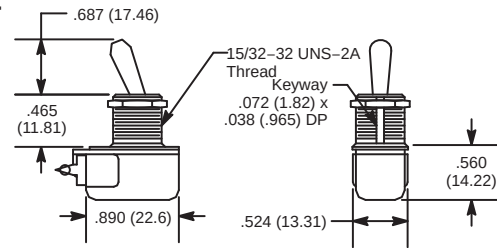
Features

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



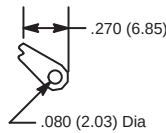
NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-070	SPST	ON	NONE	OFF	Brass/Nickel Plate	S14a
54-071	SPST	ON	NONE	OFF	Brass/Nickel Plate	S14c

S14

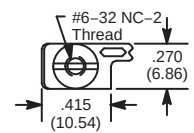


Terminal Types

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

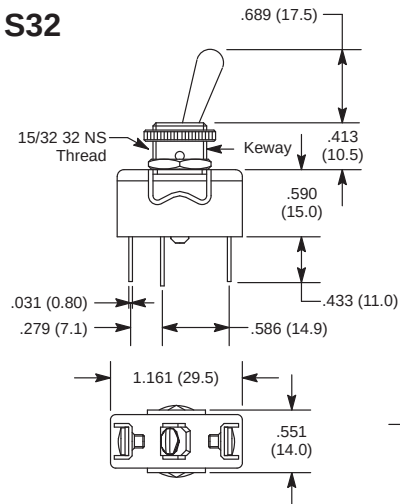
- Waterproof Types Available on Page 18



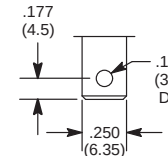
NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-348	SPST	ON	NONE	OFF	Nickel Plated Brass	S32a
54-349	SPDT	ON	NONE	ON	Nickel Plated Brass	S32a
54-350	SPDT	ON	OFF	ON	Nickel Plated Brass	S32a
54-351	SPDT	(ON)	NONE	ON	Nickel Plated Brass	S32a
54-352	SPDT	(ON)	OFF	(ON)	Nickel Plated Brass	S32a
54-353	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

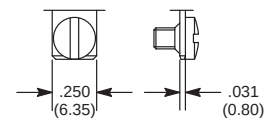
S32



a: Solder Lug/Quick Connect



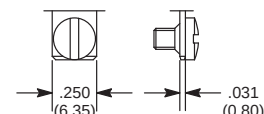
c: Screw (Assembled)



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)

UL for 12 Amp **ONLY**



Mounting Hole: .480 (12.2)

S5

Keyway
 .072 (1.82) x
 .038 (.965) DP

.465
 (11.81)

.765
 (19.43)

.836
 (21.23)

.687
 (17.44)

15/32-32 UNS-2A
 Thread

1.750 (44.45)

1.764 (44.8)

Terminal Types
 c: Screw (Assembled)

#6-32NC-2
 Thread

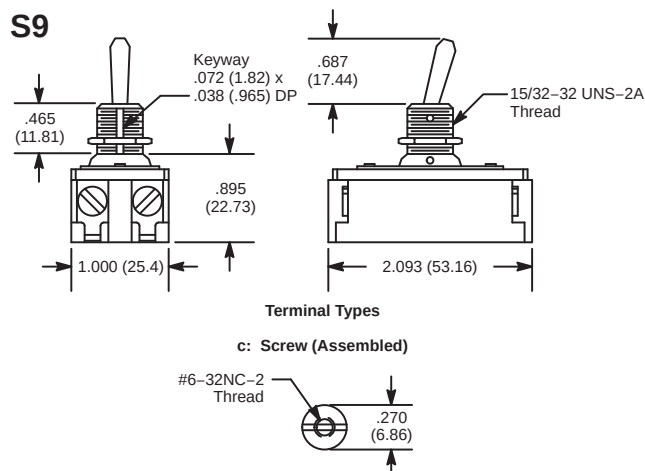
.270
 (6.86)

Mounting Hole: .500 (12.7)

Bat Handle Toggle



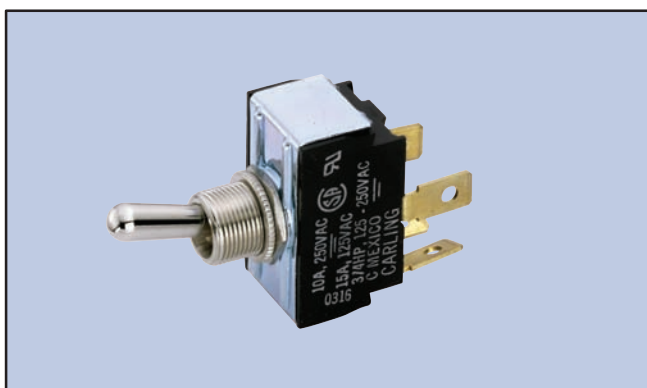
NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-057	DPST	ON	NONE	OFF	Brass/Nickel Plate	S9



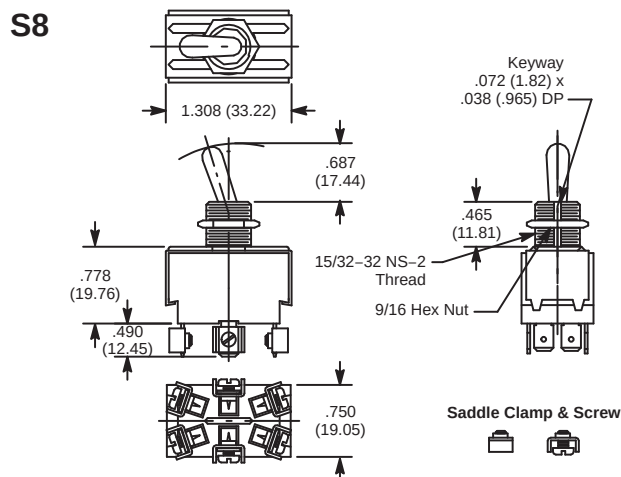
Specifications

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



Specifications

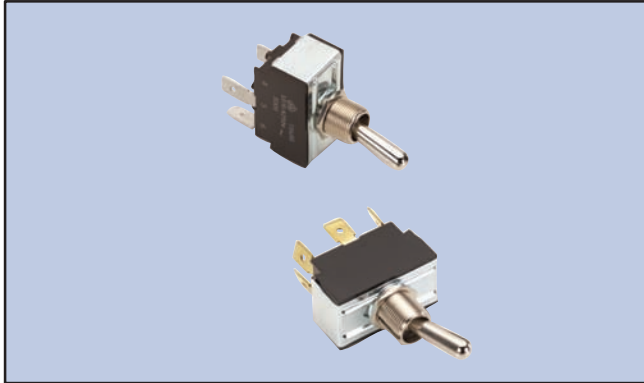
Current Rating: 15A 125VAC, 10A 250VAC, 3/4 HP 125-250VAC
Insulation Resistance: 100 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: +32°F to +185°F (0°C to +85°C)
Electrical Life: 50,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: "3-in-1" Combi-Terminal
Mounting Hole: .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

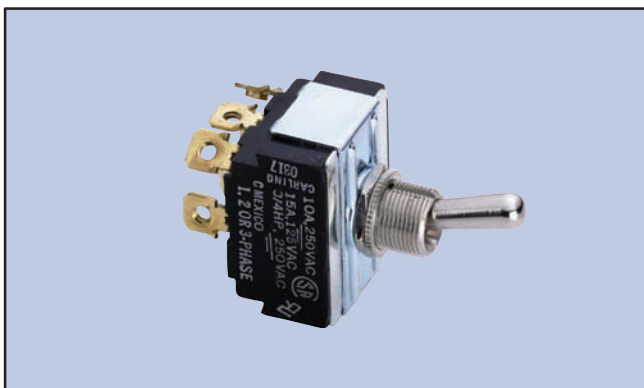


NTE Type No.	Circuitry	Current Rating	Action			Actuator	Diag No.
54-003	DPDT	A	ON	NONE	ON	Brass/Nickel Plate	S4b
54-004	DPST	A	ON	NONE	OFF	Brass/Nickel Plate	S4b
54-011	DPST	A	ON	NONE	OFF	Brass/Nickel Plate	S4c
54-012	DPDT	A	ON	OFF	ON	Brass/Nickel Plate	S4b
54-013	DPDT	A	ON	OFF	ON	Brass/Nickel Plate	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

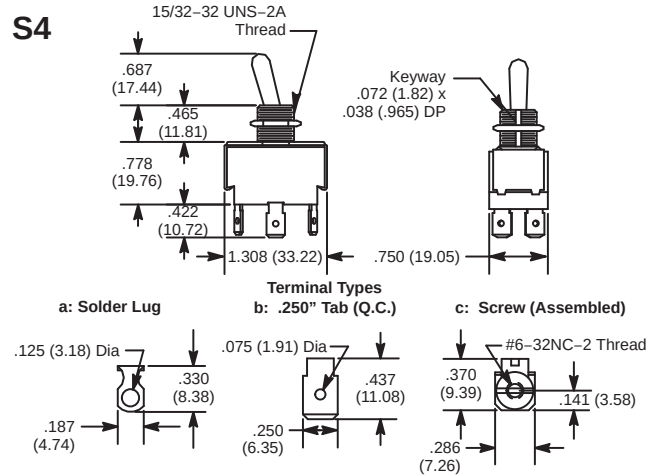
* SP in DP case.

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

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)

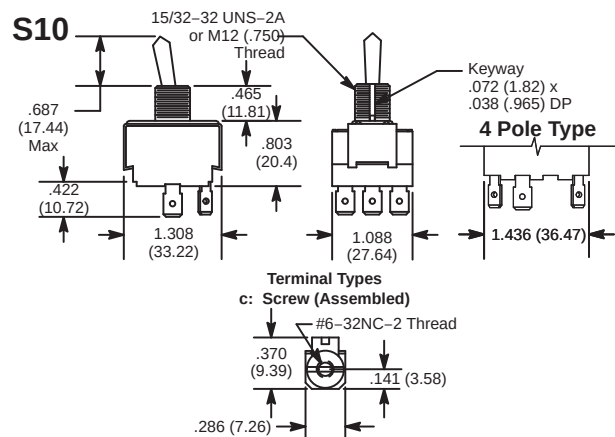
Electrical Life: 25,000 cycles

Mechanical Life: 100,000 cycles

Terminal Type: Refer to Diag No. in Table

Mounting Hole: .500 (12.7)

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

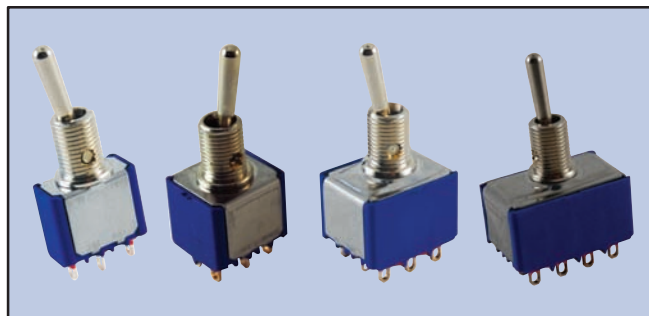
Mounting Hole: .500 (12.7) Max.

Bat Handle Mini Toggle

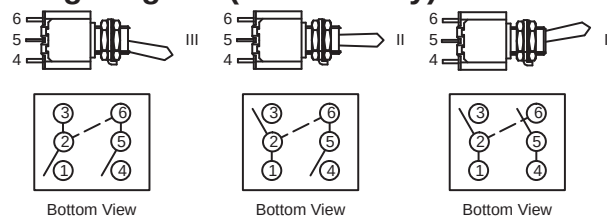


Features

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



Wiring Diagram (54-306 Only)



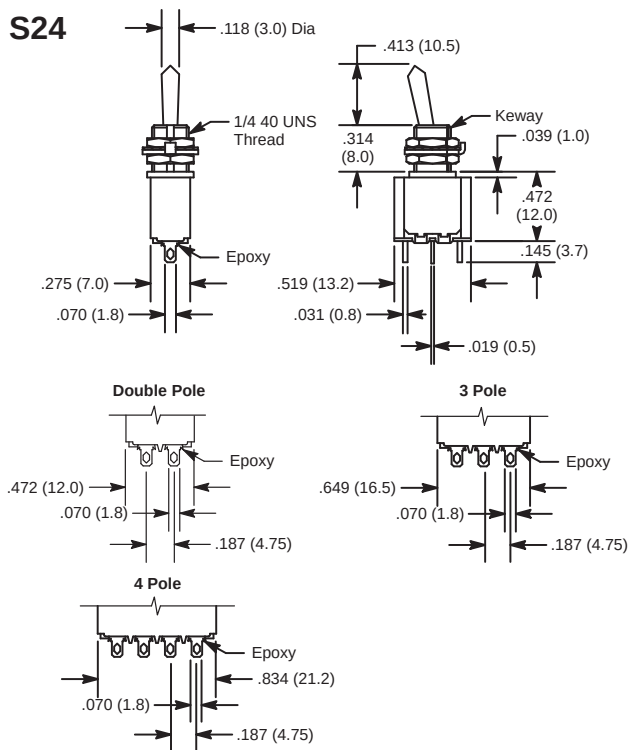
Equivalent to single pole 3 throw switch. Dotted line between terminals 2 & 6 indicate external jumpers to be added by customer.

NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-301	SPDT	ON	NONE	(ON)	Chrome Plated Brass	S24
54-302	SPDT	ON	NONE	ON	Chrome Plated Brass	S24
54-303	SPDT	ON	OFF	ON	Chrome Plated Brass	S24
54-304	SPDT	ON	OFF	(ON)	Chrome Plated Brass	S24
54-305	SPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S24
54-306*	SP3T	ON	ON	ON	Chrome Plated Brass	S24
54-307	DPDT	ON	NONE	ON	Chrome Plated Brass	S24
54-308	DPDT	ON	OFF	ON	Chrome Plated Brass	S24
54-309	DPDT	ON	NONE	(ON)	Chrome Plated Brass	S24
54-310	DPDT	ON	OFF	(ON)	Chrome Plated Brass	S24
54-312	4PDT	ON	NONE	ON	Chrome Plated Brass	S24
54-313	4PDT	ON	OFF	ON	Chrome Plated Brass	S24
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
54-323	3PDT	ON	NONE	ON	Chrome Plated Brass	S24
54-324	3PDT	ON	OFF	ON	Chrome Plated Brass	S24
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

SPECIAL NOTE: () = Momentary Function

* SP in DP case.

S24



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: Refer to Diag No. in Table

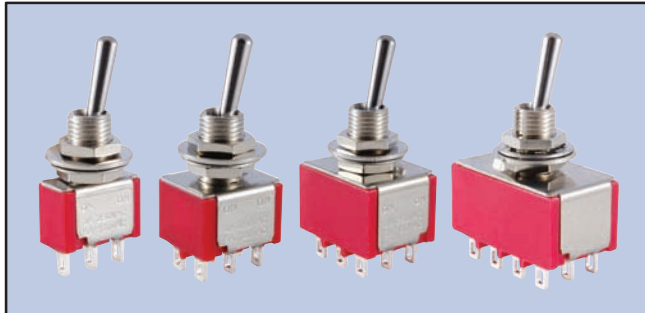
Mounting Hole: .255 (6.5)

Bat Handle Mini Toggle

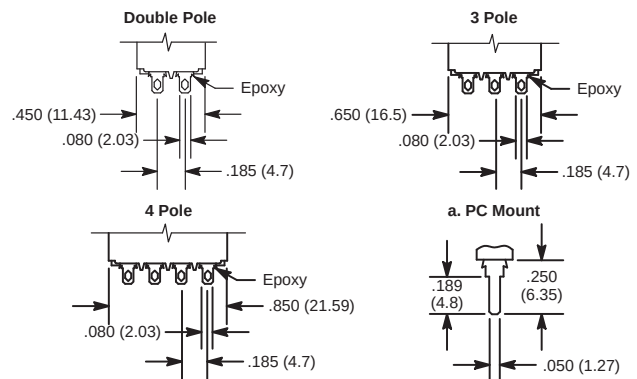
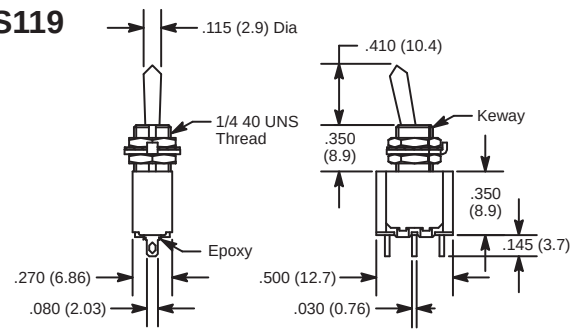


Features

- 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.



S119



Specifications

Current Rating: 5A 120VAC or 28VDC, 2A 250VAC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: -22° to +185°F (-30° to +85°C)
Electrical Life: 50,000 cycles (min.) at full load
Terminal Type: Refer to Diag No. in Table
Mounting Hole: .250 (6.35)

	NTE Type No.	Circuitry	Action			Actuator	Diag No.
NEW	54-301E	SPDT	ON	NONE	(ON)	Chrome Plated Brass	S119
	54-301PC	SPDT	ON	NONE	(ON)	Chrome Plated Brass	S119a
NEW	54-302E	SPDT	ON	NONE	ON	Chrome Plated Brass	S119
	54-302PC	SPDT	ON	NONE	ON	Chrome Plated Brass	S119a
NEW	54-303E	SPDT	ON	OFF	ON	Chrome Plated Brass	S119
	54-303PC	SPDT	ON	OFF	ON	Chrome Plated Brass	S119a
NEW	54-304E	SPDT	ON	OFF	(ON)	Chrome Plated Brass	S119
	54-304PC	SPDT	ON	OFF	(ON)	Chrome Plated Brass	S119a
NEW	54-305E	SPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S119
	54-305PC	SPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S119a
NEW	54-307E	DPDT	ON	NONE	ON	Chrome Plated Brass	S119
	54-307PC	DPDT	ON	NONE	ON	Chrome Plated Brass	S119a
NEW	54-308E	DPDT	ON	OFF	ON	Chrome Plated Brass	S119
	54-308PC	DPDT	ON	OFF	ON	Chrome Plated Brass	S119a
NEW	54-309E	DPDT	ON	NONE	(ON)	Chrome Plated Brass	S119
	54-309PC	DPDT	ON	NONE	(ON)	Chrome Plated Brass	S119a
NEW	54-310E	DPDT	ON	OFF	(ON)	Chrome Plated Brass	S119
	54-310PC	DPDT	ON	OFF	(ON)	Chrome Plated Brass	S119a
NEW	54-311E	DPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S119
	54-311PC	DPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S119a
NEW	54-323E	3PDT	ON	NONE	ON	Chrome Plated Brass	S119
	54-323PC	3PDT	ON	NONE	ON	Chrome Plated Brass	S119a
NEW	54-324E	3PDT	ON	OFF	ON	Chrome Plated Brass	S119
	54-324PC	3PDT	ON	OFF	ON	Chrome Plated Brass	S119a
NEW	54-327E	3PDT	ON	NONE	(ON)	Chrome Plated Brass	S119a
	54-327PC	3PDT	ON	NONE	(ON)	Chrome Plated Brass	S119a
NEW	54-312E	4PDT	ON	NONE	ON	Chrome Plated Brass	S119
	54-312PC	4PDT	ON	NONE	ON	Chrome Plated Brass	S119a
NEW	54-313E	4PDT	ON	OFF	ON	Chrome Plated Brass	S119
	54-313PC	4PDT	ON	OFF	ON	Chrome Plated Brass	S119a
	54-316PC	4PDT	ON	NONE	(ON)	Chrome Plated Brass	S119a

SPECIAL NOTE: () = Momentary Function

Bat Handle Subminiature Toggle



Features

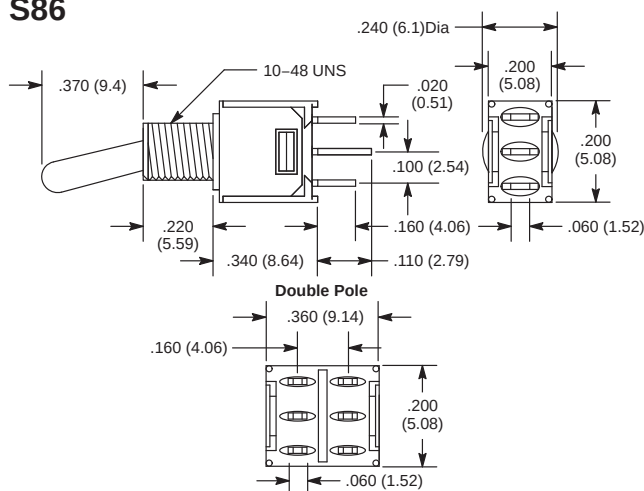
- Single and Double Pole Types
- Epoxy Sealed Terminals



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



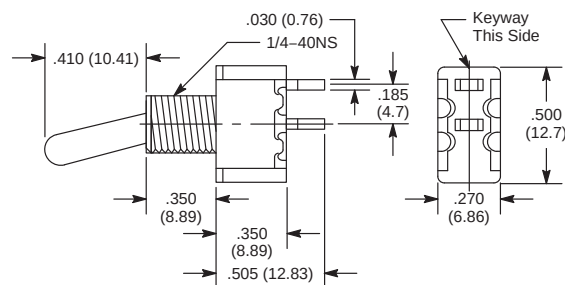
Features

- Epoxy Sealed Terminals



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

S95



Specifications

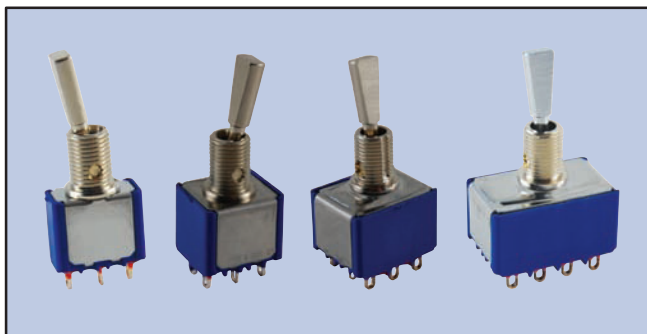
Current Rating: 5A 120VAC or 28VDC, 2A 250VAC
Insulation Resistance: 1000 Megohms (min.)
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: -22° to +266°F (-30° to +130°C)
Electrical Life: 50,000 cycles (min.)
Terminal Type: Solder Lug
Mounting Hole: .250 (6.35)

Flatted Handle Mini Toggle



Features

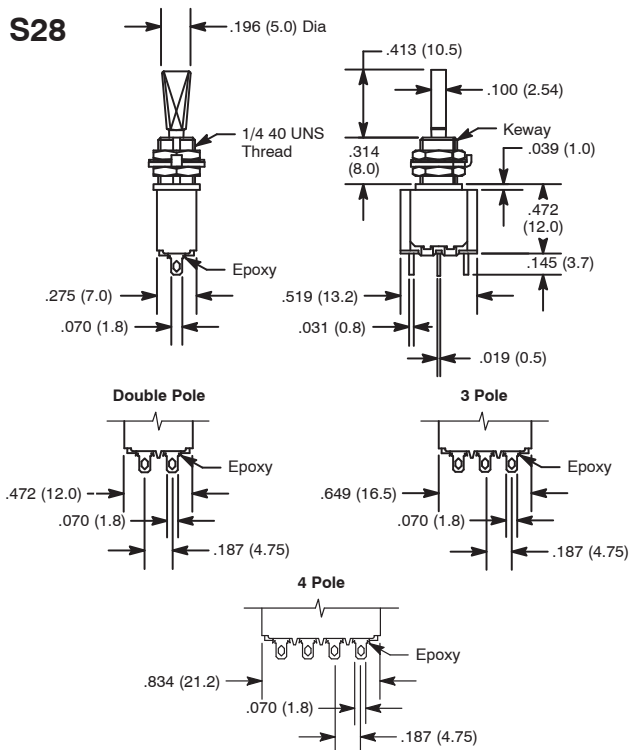
- SP, DP, 3P & 4P Types
- Epoxy Sealed Terminals
- Typical Applications Include: Switching Power Supplies, DC-DC Converters, Motors, etc.



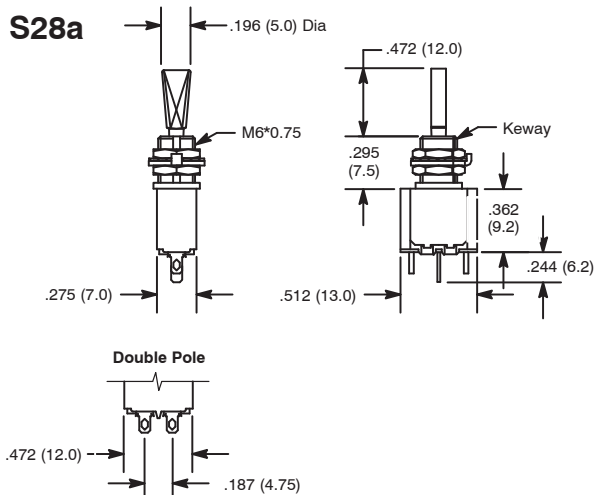
NTE Type No.	Circuitry	Action			Actuator	Diag No.
54-328	SPDT	ON	NONE	ON	Chrome Plated Brass	S28a
54-329	SPDT	ON	OFF	ON	Chrome Plated Brass	S28a
54-330	SPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S28a
54-331	SPDT	ON	OFF	(ON)	Chrome Plated Brass	S28a
54-332	SPDT	ON	NONE	(ON)	Chrome Plated Brass	S28a
54-333	DPDT	ON	NONE	ON	Chrome Plated Brass	S28
54-334	DPDT	ON	OFF	ON	Chrome Plated Brass	S28a
54-335	DPDT	(ON)	OFF	(ON)	Chrome Plated Brass	S28
54-336	DPDT	ON	OFF	(ON)	Chrome Plated Brass	S28a
54-337	DPDT	ON	NONE	(ON)	Chrome Plated Brass	S28a
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
54-344	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



S28a



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



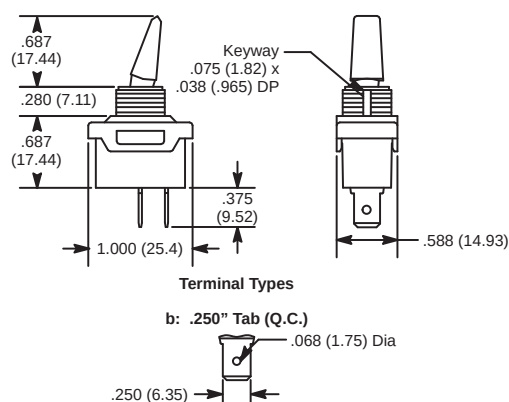
Features

- 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



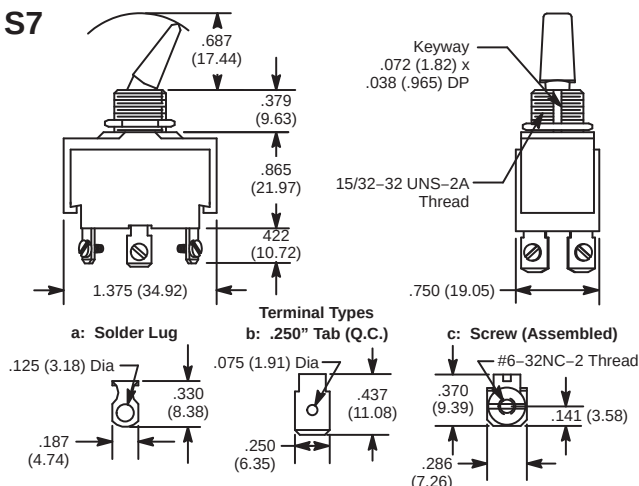
Features

- 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
54-120	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

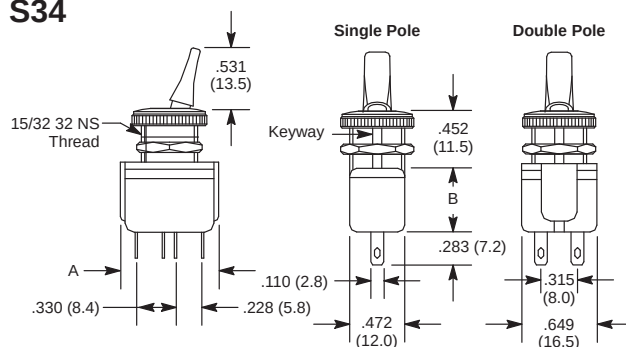


Features

- Quick Connect Terminals
- Insulated Actuator



S34



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

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

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

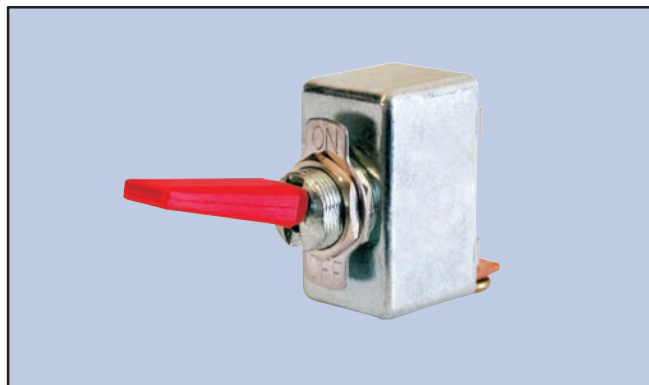
Mounting Hole: .492 (12.5)

Paddle Handle Toggle

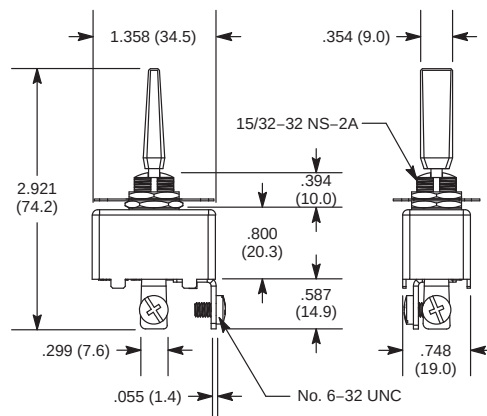


Features

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



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)

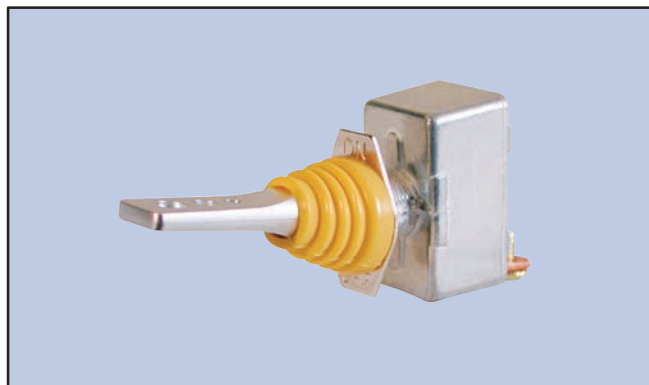
Electrical Life: 25,000 cycles

Mechanical Life: 100,000 cycles

Terminal Type: Screw Type

Mounting Hole: .500 (12.7)

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



S27

Technical drawing of the S27 tool holder, showing side and end views with dimensions in inches and millimeters.

Side View Dimensions:

- Overall length: 3.252 (82.6)
- Top flange width: 1.358 (34.5)
- Bottom flange width: .299 (7.6)
- Bottom flange thickness: .055 (1.4)
- Internal thread: 15/32-32 NS-2A
- Internal thread length: .394 (10.0)
- Internal thread diameter: .800 (20.3)
- Internal thread depth: .587 (14.9)

End View Dimensions:

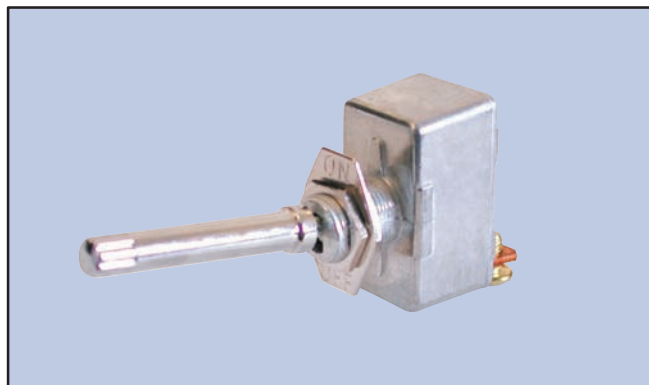
- Top flange diameter: .433 (11.0)
- Bottom flange diameter: .748 (19.0)
- Bottom flange thickness: .748 (19.0)
- Internal thread diameter: .748 (19.0)
- Internal thread depth: .630 (16.0)

Half-Toggle Boot

Technical drawing of the Half-Toggle Boot, showing dimensions in inches and millimeters.

- Overall length: .630 (16.0)
- Internal thread diameter: .748 (19.0)
- Internal thread depth: .748 (19.0)

No. 6-32 UNC



S29

Technical drawing of the S29 connector showing two views: a side view and a front view. The side view on the left shows a connector with a 15/32-32 NS-2A thread, a .2016 (51.2) height, and a .394 (10.0) distance from the base to the top of the thread. The front view on the right shows a connector with a .748 (19.0) width and a .311 (7.9) distance from the base to the top of the thread. Both views show a .055 (1.4) distance from the base to the center of the thread and a .299 (7.6) distance from the base to the center of the mounting hole. The drawing includes dimensions in inches and millimeters.

Dimensions (inches / millimeters):

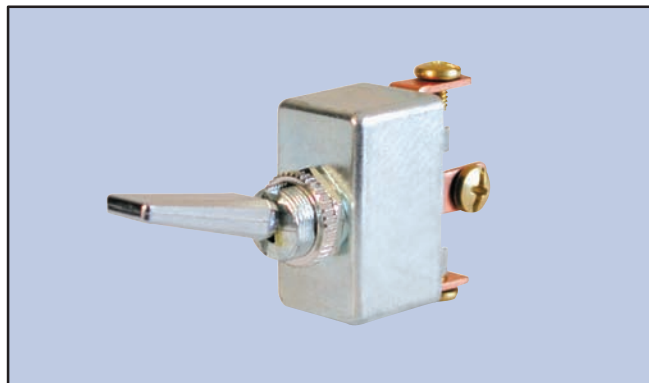
- 1.358 (34.5)
- 1.599 (40.6)
- 2.016 (51.2)
- 15/32-32 NS-2A
- .394 (10.0)
- .800 (20.3)
- .547 (13.9)
- .299 (7.6)
- .055 (1.4)
- .311 (7.9)
- .748 (19.0)
- No. 6-32 UNC

Paddle Toggle



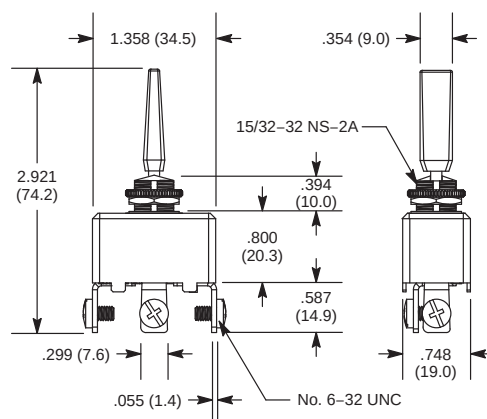
Features

- 50 Amps at 12VDC
- Screw Terminals



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

S30



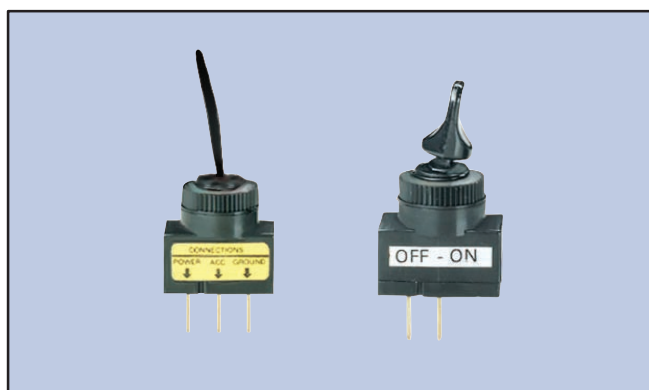
Specifications

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

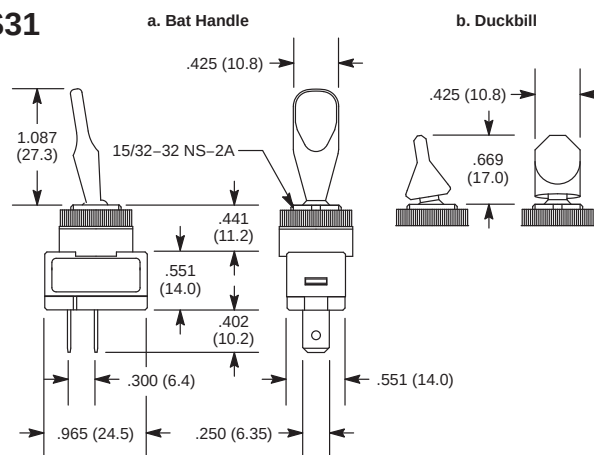
Features

- Illuminated Types Available on Page 19
- 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	S31a
54-571	SPST	ON	NONE	OFF	Brushed Aluminum	S31b

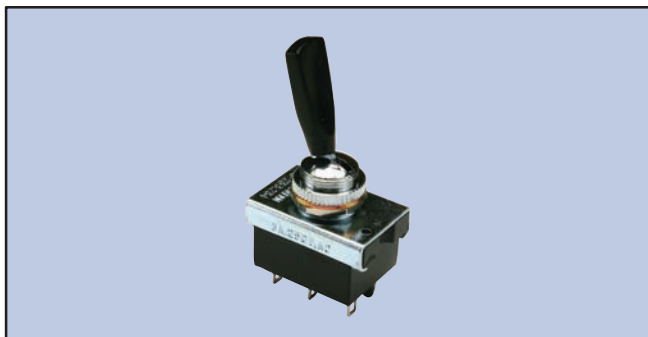
S31



Specifications

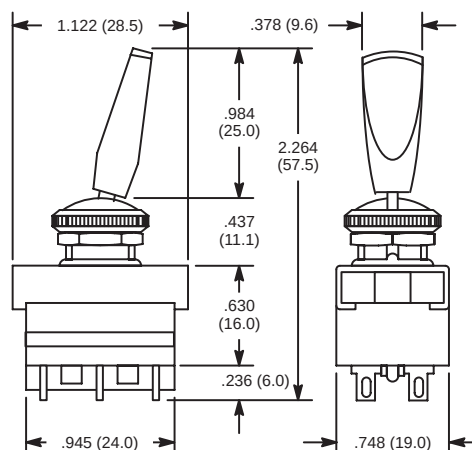
Current Rating: 20A 12VDC
Insulation Resistance: 100 Megohms (min.) at 500VDC
Dielectric Strength: 1000V RMS (min.)
Temperature Rating: -4° to +180°F (-20° to +85°C)
Electrical Life: 25,000 cycles
Mechanical Life: 100,000 cycles
Terminal Type: .250" Tab Q.C.
Mounting Hole: .500 (12.7)

Paddle Toggle



NTE Type No.	Circuitry	Action			Actuator	Diag 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)