TOGGLE, BRASS, NICKEL PLATED

BUSHING, 15/32-32, BRASS, NICKEL PLATED

FACE NUT, BRASS NICKEL PLATED

HEX NUT, NICKEL PLATED

INSULATOR, BAKELITE

TERMINAL: 250° MALE BLADE
2 REQ.

NOTES:
1. HEAVY DUTY CONTACTS
2. ALL STEEL PARTS ZINC PLATED
3. SILVER CONTACT SURFACES
4. 25 A @ 12V / 15 A @ 24V

Cole Hersee Co.
20 Old Colony Ave., South Boston, MA, 02127
Phn: 617-258-2100 Web: www.colehersee.com

DESCRIPTION:
SWITCH, TOGGLE . SPST
ON-OFF

Drawing
Part No.: 55014
K

Current Rev.
NOTES:
1. NEOPRENE O-RING SEAL IN BUSHING
2. TWO SILVER CONTACT SURFACES

METRIC
2.5 AMP - 12 V DC

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SCALE: 1:1

FINISH

TOLERANCES
DECIMAL ± METRIC ±

TOGGLE - NICKEL PLATE
FACE NUT - NICKEL PLATE
HEX NUT 15/32 - 32 THD
6.35 WIDE BLADE TERM'S

ON
OFF

1.82 x .955 KEYWAY

28.70
16.25
12.70 / 13.71
30.48 APPROX.

SWITCH, TOGGLE

CH-18814-78

Confidential Property of Cole Hersee
**RATING:**

- 10 AMPS @ 250 V.A.C.
- 15 AMPS @ 125 V.A.C.
- 25 AMPS @ 12 V.D.C.

**NOTE**

1. ALL STEEL PARTS EITHER ZINC PLATE WITH DICHROMATE DIP OR CADMIUM PLATE

2. SILVER CONTACT SURFACES

**METRIC**

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**SP-DT TOGGLE SWITCH 55015**

CH-188(4-78)
NOTE:
1. "O" RING SEAL IN BUSHING.
2. SILVER CONTACTS.
3. 25 AMPS @ 12 VDC LAMP LOAD.

METRIC

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TOLERANCES

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TOGGLE SWITCH

CH-188(4-78)

Confidential Property of Cole Hersee
BUSHING, 15/32 UNS
FACE NUT NICKEL PLT.
HEX NUT

MALE BLADE TERMINALS

1.82 X 96 DEEP KEYWAY

19.05 REF

33.27 REF

11.93

22.20 REF

25 AMPS 12VDC
NOTE
© SIlVER CONTACT SURFACES

METRIC

DO NOT SCALE

CH: Cole Hersee Co.

CH 188478

55017

Confidential Property of Cole Hersee
TERMINALS - BRASS SAE J858 TYPE 1B 6.35 [25] WIDE
HEX NUT - STEEL - CAD PLT
FACE NUT - BRASS, NICKEL PLT.
15/32 - 32NS - 2A THD. BUSHING, BRASS, NICKEL PLT

NOTE
1. "O" RING SEALED/NEOPRENE
2. 2 SILVER CONTACT SURFACES

DIMENSIONS MILLIMETERS [INCHES]

25 AMPS @ 12 V DC

COLE-HERSEE COMPANY
BOSTON, MASS. 02217, U.S.A.
TERMINAL, BRASS - SAE-J858 TYPE 1B - 0.35 WIDE
INSULATOR, BAKELITE
CASE, STEEL, CAD. PLT.
HEX NUT, STEEL, CAD. PLT.
— BUSHING, STEEL, NICKEL PLT. 15/32 x 3/32 TH'D.
— FACE NUT, STEEL, NICKEL PLT, 14.96 D. X 1 5/32 TR. K.

NOTE
® SILVER CONTACT SURFACES

METRIC

25 AMPS @ 12V DC

DO NOT SCALE
NOTE:
1) NEOPRENE O-RING SEAL AT MTG STEM
2) ALL STEEL PARTS EITHER ZINC PLT.
   DICHROMATE DIP OR. CAD. PLT.
3) SILVER CONTACT SURFACES
96 DEEP X 182 WIDE KEYWAY

HENCOIS SEAL 12 SHOWN DOTTED

OFF
MOM ON

NOTE:
1. NEOPRENE O RING SEALED

MOMENTARY MOM TOGGLE SWITCH 55020-04
NOTE:

1. SILVER CONTACT SURFACES

SCREW, BRASS, 6-32 UNC - 2A

BUSHING, 15/32 - 32 NS - 2A

"ON" (MOMENTARY)
"OFF"

"ON" (MOMENTARY)
KEYWAY, .96 DEEP X 1.82 WIDE

TERMINAL, BRASS

METRIC

RATING: 25A @ 12V DC
10A @ 24V DC

DO NOT SCALE

CH 188(4 78)

Confidential Property of Cole Hersee
NOTES:
1. "O-RING SEAL IN BUSHING
2. ALL STEEL PARTS EITHER ZINC PLT. DICHROMATE DIP OR CAD. PLT.

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

ISSUED 4-22-77
S.P.D.T. TOGGLE SW.
55021-07

CONFIDENTIAL PROPERTY OF COLE HERSEE
SCREW, BRASS, 6-32 UNC-2A THD. (3 REQ'D)
TERMINAL, BRASS (3 REQ'D)
CASE, STEEL, CAD. PLT.
INSULATOR, BAKELITE
HEX-NUT, STEEL, CAD. PLT.
FACE NUT, BRASS, NICKEL PLT.
14.98 DIA. X 1.52 THK.
MTG. STEM, 15/32 - 32 UNS-2A
BRASS, NICKEL PLT.

KEYWAY 0.96 DEEP
X 1.82 WIDE

NOTE:
4 SILVER CONTACT SURFACES

METRIC

25 AMP - 14 VOLT D.C.

DO NOT SCALE

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MATERIAL

DRAWN CHECKED APPR'D

SCALF

BASIC, WITH 1/2

LONG BAT HANDLE

3-29-78

DATE DRAWN

DATE BLUEPRINT

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

Issued 4-6/8

DATE

TOLERANCES

FRACTIONAL ±

DECIMAL ±.025

LONG BAT HANDLE

DATE DRAWN

DATE BLUEPRINT

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

Issued 4-6/8

DATE

TOLERANCES

FRACTIONAL ±

DECIMAL ±.025

CONFIDENTIAL PROPERTY OF COLE HERSEE

SPALDING CO., INC. 21-10981

CONFIDENTIAL PROPERTY OF COLE HERSEE
NOTE

@ SILVER CONTACT SURFACES

25 AMP - 14 VOLT D.C.

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

TOGGLE SWITCH 55033-01
NOTE

@ SILVER CONTACT SURFACES

25 AMP - 14 VOLT D.C.

DO NOT SCALE

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

ISSUED 11-10-75

CONFIDENTIAL PROPERTY OF COLE HERSEE
TOGGLE, BRASS, NICKEL PLATED

BUSHING, 15/32-32 NS-2ATHD, BRASS NICKEL PLATED

FACE NUT, 0.590 [14.98] D X 0.060 [0.152] THK, BRASS NICKEL PLT

HEX NUT, BRASS, NICKEL PLT

16GA [1.0mA], 105°C [221°F] PVC OR SXL WIRE, BLACK

TERMINAL, BULLET BRASS, TINNED 3PL

NOTES:
1. ALL DIMENSIONS ARE REFERENCE
2. CONSERVATIVE RATING, @ 12VDC/15A.
3. O-RING SEAL IN MOUNTING STEM.
TOGGLE, BRASS, NICKEL PLATED

BUSHING, 15/32-32, BRASS, NICKEL PLATED

FACE NUT, BRASS NICKEL PLATED
HEX NUT, NICKEL PLATED

INSULATOR, BAKELITE

TERMINAL 4PL. SAE J858 TYPE 1B.

NOTES:
1. ALL DIMENSIONS ARE REFERENCE
2. ALL STEEL PARTS ZINC PLATED
3. SILVER CONTACT SURFACES
4. SWITCH RATING: 12V/25A; 24V/15A

Tolerances: Unless otherwise specifically noted, the following are default tolerances:
2-places +/- 0.02" 3-places +/- 0.005" Angular +/- 1°

Metric: Shown in [ ] refers to equivalent English Dim Tol

NOTE: All tolerances are Non-Cumulative.

PROPRIETARY INFORMATION
This Engineering Drawing and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

Special Characteristics:
Critical Characteristic, relating to Safety and/or Regulatory Compliance
Significant Characteristic relating to Process Control
Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

Cole Hersee Co.
20 Old Colony Ave., South Boston, MA 02127
Phn: 617-268-2100 Web: www.colehersee.com

Description: SWITCH, TOGGLE . DPDT M.ON-OFF-M.ON; FW-REV

Drawing / Part No.: 55046 Current Rev. H

FORM CHT-6 (207) Used On or Ref. XXXXXXXX Scale: 1:1 Drawn By: EA Date Drawn: 4/7/65 Pg. 1 of 1
**NOTES:**
1. ALL STEEL PARTS PLATED.
2. 2.25 AMPS @ 12 V.D.C.
3. O-RING SEALED.

---

**METRIC**

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**Cole Hersee Co.**

**ISSUED**

55046-06
NOTE:
① SILVER CONTACT SURFACES

METRIC

25 AMPS - 12 VOLTS D.C.
EXTRA HEAVY DUTY

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

SINGLE POLE, SINGLE THROW
TOGGLE SWITCH

DO NOT SCALE
TOGGLE-BRASS NICKEL PLT.

BUSHING-BRASS NICKEL PLT 3/32-32 TPI

FACE NUT-BRASS NICKEL PLT .590 X .060 THK.

HEX NUT-STEEL-CAD PLT

INSULATOR-MOLDED BLITE

.072 X .038 DEEP KEYWAY

NOTES:
1 SINGLE POLE MOMENTARY
2 SILVER CONTACT SURFACES

(25A-12V)

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

TOGGLE SWITCH

55052-01
25 AMP @ 12 VDC

NOTE: SILVER CONTACT SURFACES

METRIC

CIRCUIT DIAGRAM

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

"MOMENTARY" D.P.D.T.
TOGGLE SWITCH

55054
BUSHING - BRASS NICKEL PLT.
17/32 - 32 UN5 - 2A

FACE NUT - BRASS - NICKEL PLT.

HEX NUT - STEEL

INSULATOR - MOLDED BL'ITE

TERMINAL - BRASS &
SCREW - BRASS, 6 - 32 UNC - 2A
X 0.35 L.G.

NOTE:
ALL STEEL PARTS EITHER
ZINC PLT W/ DICROMATE DIP OR
CAD. PLT.

MOM. ON

MOM. ON

OFF

CIRCUIT DIAGRAM:

25 AMP @ 12 VDC
TOGGLE, BRASS, NICKEL PLT
FACE NUT, BRASS, NICKEL PLT.
BUSHING, BRASS, NICKEL PLT. 15/32-32 NS-2A
HEX NUT, STL., CAD. PLT.
INSULATOR, MOLDED B'LITE
CASE, STL., CAD. PLT.
MALE QUICK CONNECT BLADE
TERM, BRASS, SILVER PLT.
SAE-J858 TYPE 1B, 6.35 WIDE

NOTE
○ SILVER CONTACT SURFACES

"OFF"

"ON"

.96 x 1.82 KEYWAY

15.74

38.10

8.63

39.87

28.44

25 AMP., 12 VOLT D.C.
EXTRA HEAVY DUTY

METRIC

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CONFIDENTIAL PROPERTY OF COLE HERSEE

CH 188478
NOTE:
6. SILVER CONTACT SURFACES

- 0.038 x 0.072 KEYWAY
  [0.95] [1.82]

25 AMPS - 12 VOLTS D.C.
EXTRA HEAVY DUTY

TOGGLE, BRASS, NICKEL PLT.: 240 D x 185 D.
FACE NUT, BRASS, NICKEL PLT.: .39 D x .06 THK.
BUSHING, BRASS, NICKEL PLT.: 15 7/32 - 32 THD.
HEX. NUT - STEEL - CAD PLT.
INSULATOR, MOLDED B' LITE
CASE, STEEL, CAD. PLT.
TERM, BRASS

Screw, 6-32 UNC - 2A THD, BRASS
(2 REQ'D)

DIMENSIONS INCHES [MILLIMETERS]

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SP. - ST. TOGGLE SW.

COLE-HERSEE COMPANY
BOSTON, MASS. 02127, U.S.A.

55055-01

CONFIDENTIAL PROPERTY OF COLE HERSEE
Toggle-Brass Nickel Plt. 240D x .185D
Bushing-Steel Nickel Plt. 15/32-32 Thd
Face Nut-Steel Nickel Plt. .59 D x .06 Thk (A)
Hex Nut-Steel CAD Plt. (B)
Case-Steel CAD Plt.
Insulator-Molded Bakelite
Terminal-Brass SAE-J858
Type 18-25 Wide (6 Req.)

0.38 Deep x 0.72 Keyway

1.33
750

25 Amps 12 Volts D.C.
Extra Heavy Duty

COLE-HERSEE COMPANY
BOSTON 27, MASS., U.S.A.

L.P.D.T. "On-Off-On"
Toggle Switch

Confidential Property of Cole Hersee
**Dimensions - Millimeters [Inches]**

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**Notes:**
1. All steel parts either zinc plated, dichromate dip or cad plated.
2. Silver contact surfaces.

**COLE-HERSEE COMPANY**

Boston, Mass. 02127, U.S.A.

Momentary DPDT Toggle Switch

55065-02
CIRCUIT DIAGRAM

"MOM" ON  OFF  ON

25 AMP @ 12 VDC  METRIC

FACE NUT, BRASS NICKEL PLT.

BUSHING, BRASS NICKEL PLT, 1/8"-20 UNF - 2A

HEX NUT, STEEL CAD PLT.

INSULATOR, BAKELITE

MALE BLADE TERMINAL, BRASS

TOGGLE, BRASS NICKEL PLT.

NPM EX-186C3

DO NOT SCALE

CH-188(4-78)
**NOTE:**

1. All steel parts either zinc plate w/dichromate dip or cadmium plate.
2. Silver contact surfaces.

---

**METRIC**

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**SP - D.T. TOGGLE SWITCH 55088**

**ISSUED 8-3-79**

**DATE DRAWN** 7-20-79

**DATE BLUEPRINT**
NOTES:
1. SILVER CONTACTS
2. 25 AMPS @ 12V DC LAMP LOAD
3. ALL STEEL PARTS PLATED
TOGGLE, BRASS, NICKEL PLATED

BUSHING, 15/32-32, BRASS, NICKEL PLATED

FACE NUT, BRASS NICKEL PLATED

HEX NUT, NICKEL PLATED

INSULATOR, BAKELITE

SCREW: 6-32 UNC-2A 2 REQ.

1. HEAVY DUTY SILVER CONTACTS
2. NEOPRENE O-RING IN BUSHING
3. ALL STEEL PARTS ZINC PLATED
4. SWITCH RATING: 12V/25A; 24V/15A

NOTES:

- Deep Keyway:
  [1.82] x .038 [96]

- ON

- OFF

- Dimensions in inches are expressed in inches except those shown in brackets [ ] are expressed in millimeters.

- Dimensional Units: All dimensions are expressed in inches except those shown in brackets [ ] are expressed in millimeters.

- See or an Assertion for Non-Toleranced Reference Dimension, shown for clarification purposes only.

- Tolerances: Unless otherwise specifically noted, the following are default tolerances:
  - ± .002
  - ± .005
  - ± .001

- Dimensional Units: All dimensions are expressed in inches except those shown in brackets [ ] are expressed in millimeters.

- Design Control: It is the responsibility of the individual using this drawing to ensure that the noted design revisions agree with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted.

- DO NOT SCALE - Dimensional variation may occur during printing / reproduction.

- Special Characteristics:
  - Critical Characteristics, relating to safety and/or regulatory compliance
  - Significant Characteristics relating to process control (SRP)
  - Key Characteristics relating to form, fit, function as defined by Cole Hersee Company and/or the customer

- Notes: The identification of any characteristic as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.

- Notes:
  - 1. Heavy Duty Silver Contacts
  - 2. Neoprene O-Ring in Bushing
  - 3. All Steel Parts Zinc Plated
  - 4. Switch Rating: 12V/25A; 24V/15A
TOGGLE, BRASS, NICKEL PLATED

BUSHING, 15/32-32, BRASS, NICKEL PLATED

FACE NUT, BRASS NICKEL PLATED

HEX NUT, NICKEL PLATED

INSULATOR, BAKELITE

SCREW: 6-32 UNC 2 REQ.

Notes:
1. ALL DIMENSIONS ARE REFERENCE
2. ALL STEEL PARTS ARE ZINC PLATED
3. SILVER CONTACT SURFACES
4. SWITCH RATING: 25A/12V; 15A/24V
SCREW, 6-32 UNC-2A THD, BRASS (3 REQ'D)

INSULATOR, BAKELITE CASE, STEEL
HEX NUT, STEEL
FACE NUT, BRASS, NICKEL PLT.

BUSHING, 15/32-32 UNS-2A THD, BRASS, NICKEL PLT.

TOGGLE, BRASS, NICKEL PLT

0.038 [0.96] X 0.072 [1.82] KEYWAY

1.125 [28.57]

0.625 [15.88]

0.690 [17.53]

0.470 [11.94]

1.125 [28.58]

0.250 [6.35]

0.312 [7.92]

NOTES:
1. ALL STEEL PARTS PLATED
2. SILVER CONTACT SURFACES
3. ALL DIMENSIONS REFERENCE ONLY EXCEPT OTHERWIZE NOTED
4. 25AMP @ 12VDC

Tolerances: Unless otherwise specifically noted, the following are default tolerances:

2-places 3-places Angular
+/- 0.02" +/−0.005" +/−1°

Metric: Shown in [] refers to equivalent English Dim Tol
"REF" or an Asterisk (*) = Non-Tolerance Reference Dimension, shown for clarification purposes only.

NOTE: All tolerances are Non-Cumulative.

PROPRIETARY INFORMATION
This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company.

Special Characteristics:

Critical Characteristic, relating to Safety and/or Regulatory Compliance
Significant Characteristic relating to Process Control
Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer

Description:
SPDT TOGGLE SW

Cole Hersee Co.
26 Old Colony Ave., South Boston, MA 02127
Phn: 617-265-2100 Web: www.colehersee.com

Drawing / Part No.: 5584

Page 1 of 1
**METRIC**

**25 AMPS @ 12 VDC**

**DO NOT SCALE**

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**MATERIAL**

- FINISH
- TOLERANCES
  - DECIMAL ±
  - METRIC ±

**Issued**

- SPD.T. TOGGLE SW 5584-11

**NOTES**

1. O-RING SEAL AT BUSHING
2. ALL STEEL PARTS PLATED

**BUSHING 1/32.32 (SEE NOTE)**

**FACE NUT NICKEL PLT.**

**HEX NUT**

**SCREW, 6-32, 3 REQ'D**

**28.57 REF.**

**.96 X 1.82 KEYWAY**

**15.87**

**11.93**

**24.56 REF.**

**CONFIDENTIAL PROPERTY OF COLE HERSEE**
TOGGLE, NICKEL PLATE

BUSHING, 15/32-32 NICKEL PLATE

HEX NUT NICKEL PLATE (SEE NOTE 6)

HENCOL SEAL #12 SHOWN DASHED

101.60 ±6.35

279.40 ±6.35

101.60 ±6.35

25.40

3.0 mm² 105°C PVC WIRE LEADS BLACK

3.0 mm² 12 GA

1.82 X 0.96 DEEP KEYWAY

15.88

33.65 MAX

ON

ON

11.88

17.47

11.88

25.40 MAX

1.82 X 0.96 DEEP KEYWAY

NOTES:
1. SILVER CONTACTS
2. 25 AMPS @ 12VDC LAMP LOAD
   35 AMPS @ 12VDC INDUCTIVE LOAD
3. O-RING SEAL IN BUSHING
4. ALL STEEL PARTS PLATED
5. ALL DIMENSIONS REFERENCE
   A
6. 1 HEX NUT ASSEMBLED
   1 HEX NUT SHIPPED LOOSE

METRIC

CONGRATULATIONS

MATERIAL

DRAWN

APVD

SCALE

FINISH

TOLERANCES

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL
CASE, STEEL CAD.
#6-32 SCREW, BRASS

INSULATOR, BAKELITE

BUSHING, STEEL \(15/32\)-32 THD NICKEL PLT

FACE NUT, STEEL NICKEL PLT, 59 D X 0.06 THK

HEX NUT, STEEL CAD PLT

NOTE
SILVER CONTACT SURFACES
**Notes:**

1. **Double Pole - Double Throw**
2. **2 Positions - Both "ON"**
3. **6 Screw Type Terminals**
4. **All Steel Parts Plated**
5. **3 Silver Contact Surfaces**

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**Cole-Hersee Company**

BOSTON, MASS. 02127, U.S.A.
TERMINAL & *G-32 TH'D SCREW BRASS
HEX NUT-STEEL-CAD PLT ©
FACE NUT BRASS NICKEL PLT .59 D X .06 THK ©
.038 DEEP X .072 KEYWAY

NOTE:
© SILVER CONTACT SURFACES

COLE-HERSEE COMPANY
BOSTON 27, MASS., U.S.A.

D.P.D.T. "ON-OFF-ON"
TOGGLE SWITCH

5592