

**MICRO SWITCH**  
FREEPORT, ILLINOIS, U. S. A.  
A DIVISION OF HONEYWELL  
FED. MFG. CODE 91929

# **SWITCH - TOGGLE (MAGNETIC HOLD-IN)**

CATALOG LISTING  
**25ET24-S**

**25ET24-S**

**M**

DRAWING  
NUMBER

**8**

ISSUE

REPLACES

RELEASE NO. PR-4653

CHECK

REVISIONS

A CO  
61410  
D J S  
5 OCT 87

CHECK

7 DEC 87

CHECK

5 OCT 87

DRAWN

DDM/CAD

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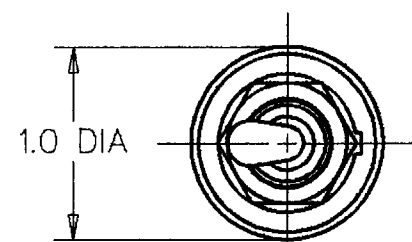
## **CHARACTERISTICS**

**SOLENOID RATING AT 20° C**  
STEADY STATE LIMITS --- 20-29 VDC  
HOLD IN --- 15 VDC  
DROP OUT --- 5-9 VDC  
COIL RESISTANCE --- 220 OHM MIN  
OPERATING FORCE --- 7 LBS MAX  
OVERRIDE FORCE AT 29 VDC-10 LBS MAX

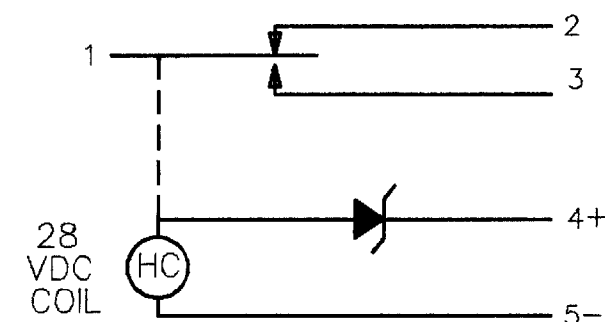
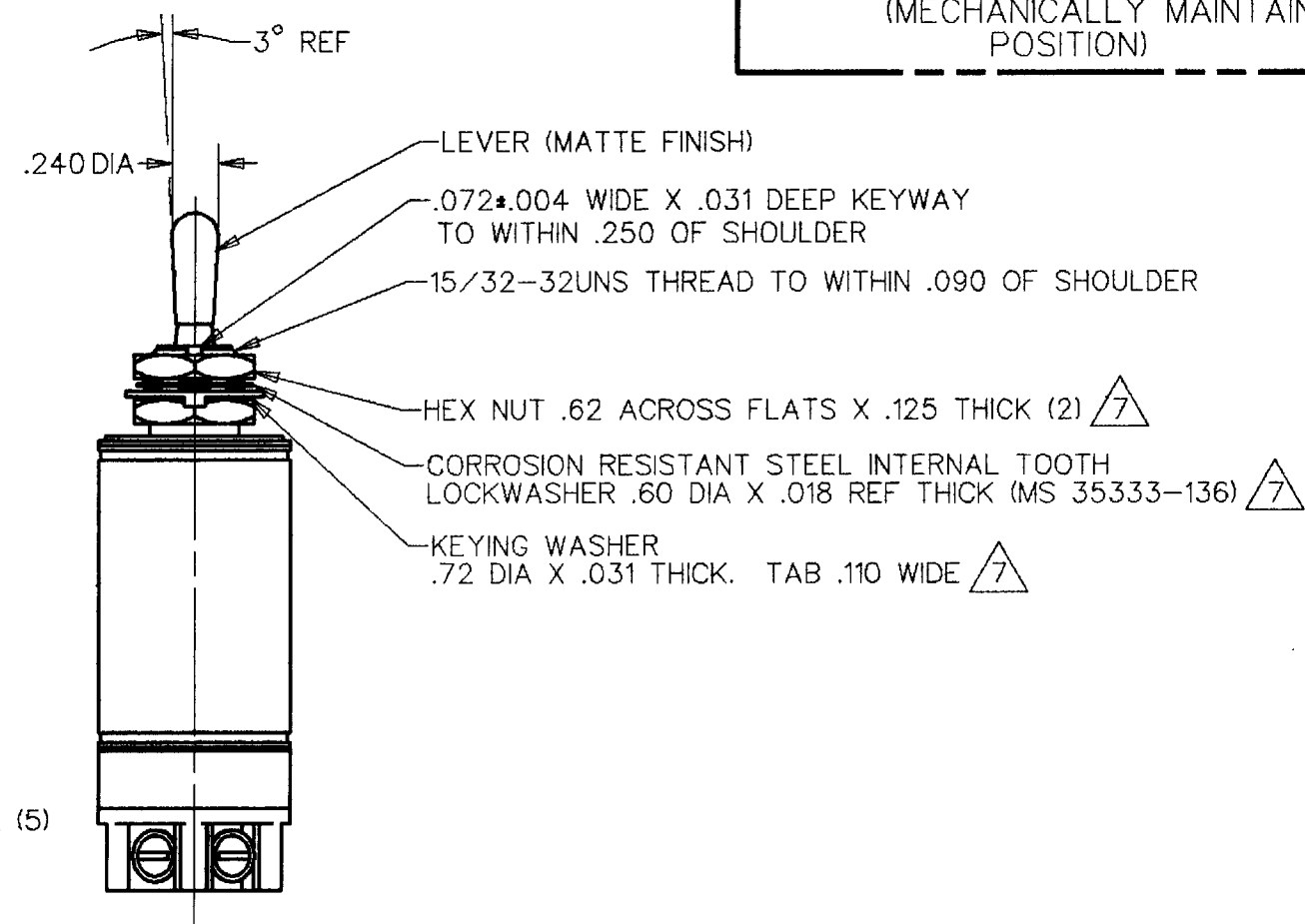
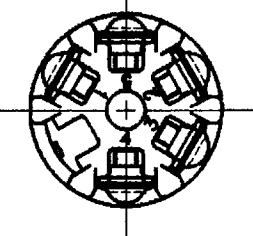
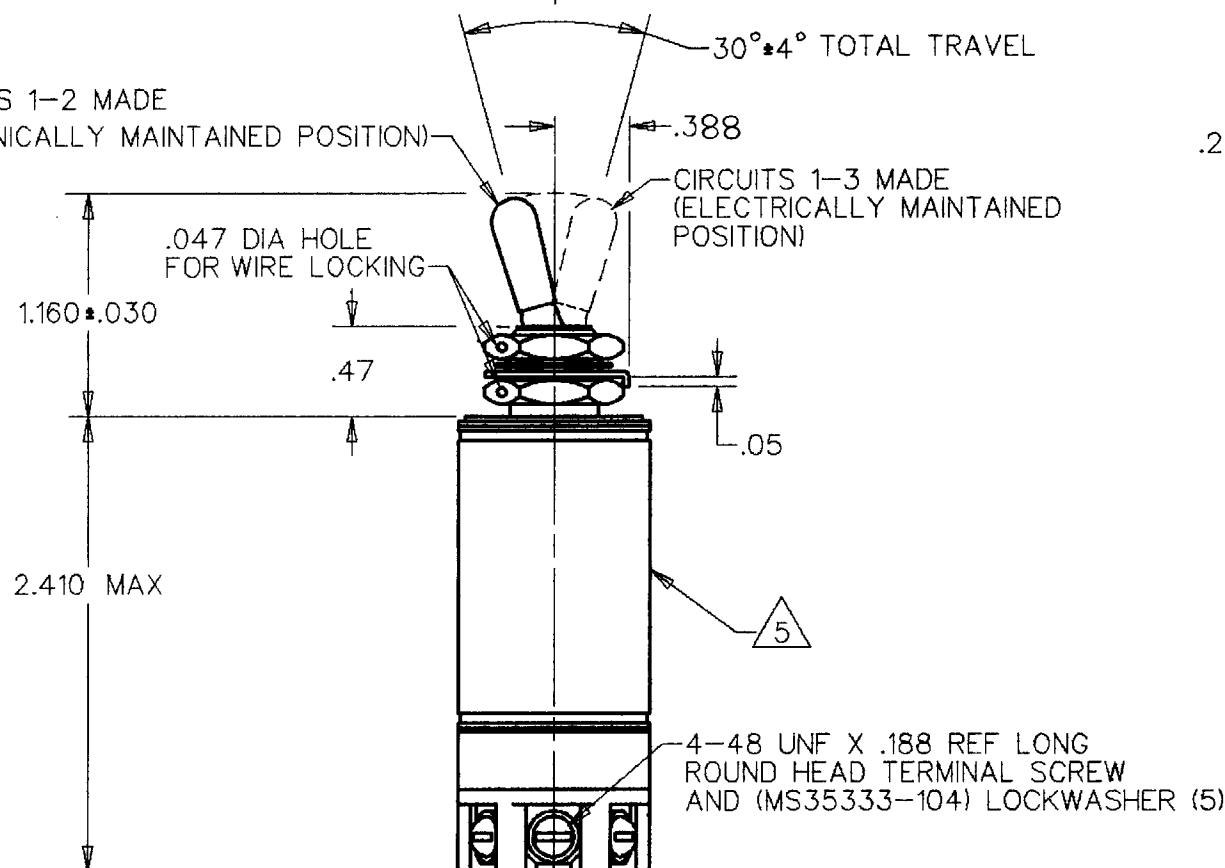
## **ELECTRICAL DATA**

| CONTACT ARRANGEMENT<br>S P D T |           | RATINGS IN AMPERES |     |     |       |        |     |     |       |
|--------------------------------|-----------|--------------------|-----|-----|-------|--------|-----|-----|-------|
| VOLTAGE                        | SEA LEVEL | 65,000 FT          |     |     |       |        |     |     |       |
|                                |           | INRUSH             | RES | IND | MOTOR | INRUSH | RES | IND | MOTOR |
| 28 VOLTS DC                    |           | 4                  | 3   | 4   |       | 4      | 2.5 | 4   |       |
|                                |           |                    |     |     |       |        |     |     |       |
|                                |           |                    |     |     |       |        |     |     |       |
|                                |           |                    |     |     |       |        |     |     |       |

|                                                                                                                |            |
|----------------------------------------------------------------------------------------------------------------|------------|
| SCALE                                                                                                          | FULL       |
| DO NOT SCALE PRINT                                                                                             |            |
| <b>TOLERANCES</b><br>APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ± |            |
| ONE PLACE (1.0)                                                                                                | ±.030      |
| TWO PLACES (1.00)                                                                                              | ±.015      |
| THREE PLACES (1.000)                                                                                           | ±.005      |
| ANGLES                                                                                                         | ±          |
| RAW MATERIAL-COMMERCIAL STANDARD                                                                               |            |
| THIRD ANGLE PROJECTION                                                                                         |            |
| WEIGHT                                                                                                         | 4.0 OZ MAX |



CIRCUITS 1-2 MADE  
(MECHANICALLY MAINTAINED POSITION)



CIRCUIT DIAGRAM  
(MECHANICALLY MAINTAINED POSITION)

## **NOTES**

- 1 - EXPOSED PARTS ARE OF CORROSION RESISTANT MATERIAL OR ARE SUITABLY PROTECTED TO PREVENT CORROSION, ENCLOSURE FINISHED WITH BLUE EPOXY BASED ENAMEL COLOR NO. 25184 PER FEDERAL STANDARD 595
- 2 - SWITCH SEALED PER MIL-S-5594
- 3 - HOLD IN VOLTAGE: THE MINIMUM SPECIFIED VOLTAGE AT WHICH THE LEVER WILL REMAIN ACTUATED. HOLD IN MAY OCCUR AT A LOWER VALUE. DROP OUT VOLTAGE: THE VOLTAGE RANGE IN WHICH THE LEVER WILL BE RELEASED
- 4 - CIRCUITS CAN BE TRANSFERRED MANUALLY. ENERGIZING THE COIL WILL NOT CAUSE TRANSFER OF CIRCUITS
- 5 - CIRCUIT IDENTIFICATION IS SHOWN ON SWITCH
- 6 - ZENER DIODE IN COIL TO CONTROL 5-9 VOLT DROPOUT
- 7 - HARDWARE MAY BE FURNISHED UNASSEMBLED PER MIL-S-5594