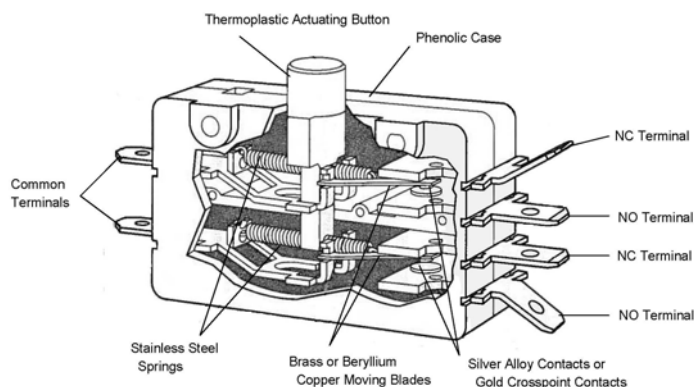


# GENERAL PURPOSE – DOUBLE POLE

# E Series



## Features

- Choice of 5 contact ratings
- Long life coil spring, snap action mechanism
- High Temperature 150°C & 200°C versions available
- RoHS Compliant

| Electrical Ratings and Operating Life |                                                                 |                                   |
|---------------------------------------|-----------------------------------------------------------------|-----------------------------------|
| According to UL1054                   |                                                                 |                                   |
| Switch Series                         | Nominal Load                                                    | Operation cycles (Min operations) |
| G20                                   | 0.1A 125VAC                                                     | 6000*                             |
| E19                                   | 15A, 125/250VAC; 3/4HP 125VAC                                   | 6000*                             |
| E19A (Mixed ratings)                  | 15A 125/250VAC 3/4HP, 125VAC, 1 1/2HP 250VAC, 0.1A 125VAC       | 6000                              |
| E20                                   | 20A, 125/250VAC, 1HP 125VAC, 2HP 250VAC                         | 6000                              |
| E25                                   | 25A 125/250VAC; 1HP 125VAC                                      | 6000                              |
| E28                                   | 30.1A 125/250/277 VAC<br>UL Approved Only – Resistive Load Only | 6000                              |

\* Extended life 105°C UL versions available. Contact factory for more information. Special part number required.

| Technical Specifications |                                                                                                       | Material Specifications    |                                                                                |
|--------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------|
| Temperature Ratings:     | -40°C to 105°C (G20, E19, E19A, E20, E25)<br>-40°C to 85°C (E28)<br>150°C & 200°C optional (E19, E20) | Case:                      | General Purpose Phenolic                                                       |
|                          |                                                                                                       | Actuator button:           | Thermoplastic Nylon                                                            |
| Flammability Rating:     | UL94HB                                                                                                | Common Terminal:           | Brass: E19, E19A, G20<br>Silver Plated Brass: E20<br>Silver Plated Copper: E28 |
|                          |                                                                                                       | NO and NC Terminals:       | Brass: E19, E19A, G20<br>Copper: E20, E25, E28                                 |
| Terminals:               | 0.250" x 0.032" (6.35mm x 0.81mm)                                                                     | Moving Blade:              | Brass: E19, E19A, G20<br>Silver Plated Beryllium Copper: E20, E25, E28         |
|                          |                                                                                                       | Spring:                    | Stainless Steel                                                                |
| CSA File Number:         | 16503                                                                                                 | Auxiliary Actuator Roller: | Cold-Rolled Stainless Steel (Nickel Plated)<br>Sintered Stainless Steel        |
| UL File Number:          | E23301                                                                                                | Contacts:                  | Silver-CdO: E19, E19A, E20, E25, E28<br>Gold Crosspoint: G20, E19A             |

Specifications subject to change



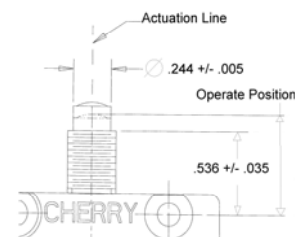
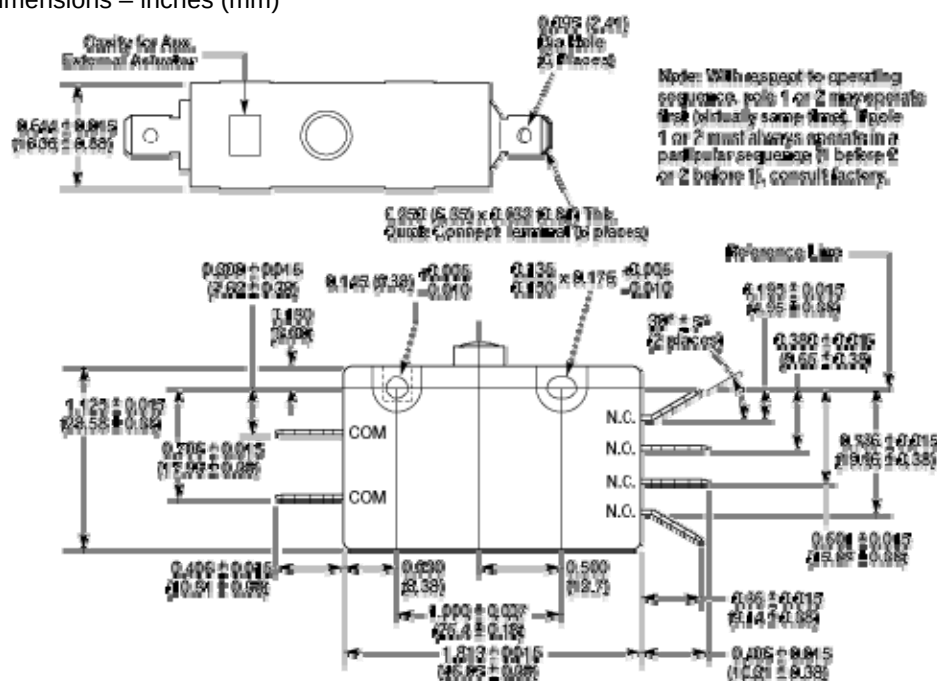
E25 only  
T200 E19 and E20



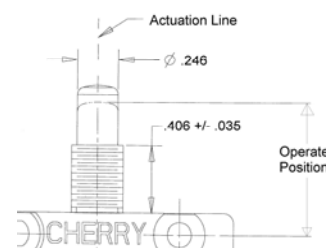
## GENERAL PURPOSE – DOUBLE POLE

# E Series

Dimensions – inches (mm)



-00J (White plastic button)



-00M (Metal cap over button)

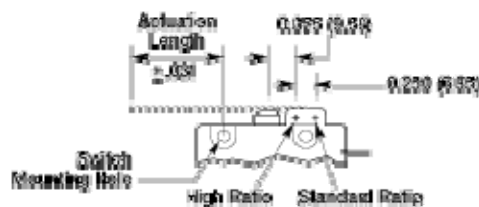
## Commonly Stocked Distributor Items / Preferred Part Numbers

| Item Number | EN Rating | UL Rating                                    | Maximum Pretravel inches (mm) | Operating Point inches (mm)      | Minimum Overtravel inches (mm) | Each Pole Max. Movement Differential inches (mm) | Maximum Operating Force (grams) | Actuation Length inches (mm) |
|-------------|-----------|----------------------------------------------|-------------------------------|----------------------------------|--------------------------------|--------------------------------------------------|---------------------------------|------------------------------|
| 0E1900A0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.050 (1.27)                  | 0.285 +/- 0.030 (7.24 +/- 0.75)  | 0.080 (2.03)                   | 0.015 (0.38)                                     | 850                             | N/A                          |
| 0E1900H0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.275 (6.99)                  | 0.312 +/- 0.062 (7.92 +/- 1.57)  | 0.100 (2.54)                   | 0.093 (2.36)                                     | 205                             | 1.50 (38.10)                 |
| 0E1900J0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.050 (1.27)                  | 0.670 +/- 0.030 (17.02 +/- 0.76) | 0.080 (2.03)                   | 0.015 (0.38)                                     | 850                             | N/A                          |
| 0E1900K0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.250 (6.36)                  | 0.718 +/- 0.062 (18.24 +/- 1.57) | 0.187 (4.75)                   | 0.093 (2.36)                                     | 212                             | 1.750 (44.45)                |
| 0E1900M0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.050 (1.27)                  | 0.812 +/- 0.030 (20.62 +/- 0.76) | 0.218 (5.54)                   | 0.015 (.38)                                      | 850                             | N/A                          |
| 0E1950H0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.400 (10.16)                 | 0.281 +/- 0.062 (7.14 +/- 1.57)  | 0.187 (4.75)                   | 0.140 (3.56)                                     | 130                             | 1.750 (44.45)                |
| 0E1950K0    | N/A       | 15A, 125/250VAC; 3/4HP 125VAC 1 1/2HP 250VAC | 0.312 (7.92)                  | 0.687 +/- 0.062 (17.45 +/- 1.57) | 0.187 (4.75)                   | 0.140 (3.56)                                     | 150                             | 1.625 (41.28)                |
| 0E2000A0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.100 (2.54)                  | 0.248 +/- 0.030 (6.30 +/- 0.76)  | 0.050 (1.27)                   | 0.015 (0.38)                                     | 1280                            | N/A                          |
| 0E2000H0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.330 (8.38)                  | 0.468 +/- 0.062 (11.89 +/- 1.57) | 0.156 (3.96)                   | 0.050 (1.27)                                     | 425                             | 0.821 (20.85)                |
| 0E2000K0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.348 (8.84)                  | 0.860 +/- 0.062 (21.84 +/- 1.57) | 0.156 (3.96)                   | 0.045 (1.14)                                     | 425                             | 0.688 (17.48)                |
| 0E2000M0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.100 (2.54)                  | 0.774 +/- 0.030 (19.66 +/- 0.76) | 0.188 (4.78)                   | 0.015 (0.38)                                     | 1280                            | N/A                          |
| 0E2050H0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.600 (15.24)                 | 0.427 +/- 0.062 (11.10 +/- 1.57) | 0.156 (3.96)                   | 0.080 (2.03)                                     | 285                             | 1.071 (27.20)                |
| 0E2050K0    | N/A       | 20A, 125/250VAC; 1HP 125VAC, 2HP 250VAC      | 0.625 (13.34)                 | 0.828 +/- 0.062 (21.03 +/- 1.57) | 0.146 (3.71)                   | 0.075 (1.91)                                     | 312                             | 0.951 (24.16)                |

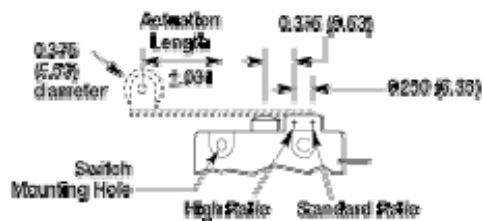
## GENERAL PURPOSE – DOUBLE POLE

# E Series

### Actuator Details



Flat Actuator Version (-00H and -50H)



Roller Actuator Version (-00K and -50K)

### “J” and “M” Type Optional Hardware

|                               |           |
|-------------------------------|-----------|
| Brass Hex Nut                 | 0012-0023 |
| Brass Hex Nut (Nickel Plated) | 0012-0028 |

### Mounting

|                                                  |                                                     |
|--------------------------------------------------|-----------------------------------------------------|
| Recommended mounting screw:<br>#6-32 round head. | Recommended torque on screw:<br>6 inch-lbs. max.    |
|                                                  | Recommended torque on ferrule:<br>20 inch lbs. max. |

### Ordering Information

|                                   |                                        |                  |
|-----------------------------------|----------------------------------------|------------------|
| Select the desired contact rating | Combine with the button/actuator style | Full part number |
| <b>E19</b>                        | <b>50H</b>                             | <b>E19-50H</b>   |

#### For single throw versions:

|                                   |                               |                                     |                                      |
|-----------------------------------|-------------------------------|-------------------------------------|--------------------------------------|
| Select the desired contact rating | Combine with the button style | DPST – NO                           | DPST - NC                            |
| <b>E19</b>                        | <b>50H</b>                    | <b>E19-51H</b><br>(Add 1 to suffix) | <b>0E19-52H</b><br>(Add 2 to suffix) |

### Contact

Call, fax or visit our Website for more information.

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Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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