

# SUBMINIATURE DB Series

## Features

- High-precision switch with high repeat accuracy
- Models available for operating temperatures up to 120°C
- Rated for currents up to 10 amp at 250VAC
- Range of auxiliary actuators available (can also be retrofitted); two mounting positions
- Variety of contact materials available to suit your application
- Mechanical life: up to  $15 \times 10^6$  operations
- Wide variety of terminal types available
- Numerous approvals



## Electrical Ratings

| Switch Series | EN61058 Rating  | UL1054 Rating                    | Electrical Life at Rated Load     |                                   |
|---------------|-----------------|----------------------------------|-----------------------------------|-----------------------------------|
|               |                 |                                  | According to EN (Min. Operations) | According to UL (Min. Operations) |
| DB1           | 6A, 250V~       | 5A, 125/250VAC                   | 10,000                            | 6,000                             |
| DB2           | 10(1.5)A, 250V~ | 10.1A, 125/250VAC; 1/4HP, 125VAC | 10,000                            | 6,000                             |
| DB3           | 0.1A, 250V~     | 0.1A, 125/250VAC                 | 50,000                            | 6,000                             |
| DB5*          | 1A, 250V~       | 1A, 125/250VAC                   | 50,000                            | 6,000                             |
| DB6*          | 6A, 250V~       | 5A, 125/250VAC                   | 50,000                            | 6,000                             |
| DB7*          | 10(1.5A), 400V~ | 10.1A, 125/250VAC; 1/4HP, 125VAC | 50,000                            | 6,000                             |

\*85°C

## Specifications

### Electrical

Temperature Rating: -40°C to +85°C / +120°C

Flammability Rating: UL94V-O (PBT, PET)  
UL94HB (POM)

### Materials

Base: PET

Cover: PBT

Actuator: PBT, POM

Auxiliary Actuator: Stainless Steel or Plastic

Terminals: Silver-Plated Copper-Zinc

Contacts: Silver Alloy  
Gold Crosspoint

PBT = Polybutyleneterephthalate • PET = Polyethyleneterephthalate • POM = Polyacetal



### Dimensions inches (mm)



### Terminal Options inches (mm)



### Auxiliary Actuator inches (mm)



### Contact Ratings at Direct Voltage

| Switching Voltage | Switched Current Resistive Load |       | Inductive Load L/R=3ms |      |
|-------------------|---------------------------------|-------|------------------------|------|
|                   | DB1                             | DB2   | DB1                    | DB2  |
| 12V               | 6A                              | 10A   | 6A                     | 10A  |
| 24V               | 3A                              | 5A    | 2A                     | 4A   |
| 60V               | 1A                              | 1A    | 0.5A                   | 0.5A |
| 110V              | 0.5A                            | 0.5A  | 0.2A                   | 0.2A |
| 220V              | 0.25A                           | 0.25A | 0.1A                   | 0.1A |

## Actuator Specifications – Standard Ratio

| Actuator Code  | Switch Type | Maximum Operating Force (gms.) | Maximum Pre-Travel inches (mm) | Operating Point inches (mm) | Minimum Over-Travel inches (mm) | Max. Movement Differential inches (mm) | Max. Rest Position inches (mm) | Actuation Length inches (mm) |
|--|-------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------|--|--------------------------------|------------------------------|
| AA<br>    | DB5         | 70                             | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB1/3       | 150                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB6         | 150                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.006 (0.15)                           | 0.366 (9.3)                    | —                            |
|  | DB2         | 250                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB7         | 280                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.006 (0.15)                           | 0.366 (9.3)                    | —                            |
| BA<br>    | DB5         | 70                             | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB1/3       | 150                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB6         | 250                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.006 (0.15)                           | 0.366 (9.3)                    | —                            |
|  | DB2         | 250                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.004 (0.10)                           | 0.366 (9.3)                    | —                            |
|  | DB7         | 280                            | 0.039 (1.0)                    | 0.331±0.012 (8.4±0.3)       | 0.024 (0.6)                     | 0.006 (0.15)                           | 0.366 (9.3)                    | —                            |
| <i>Auxiliary actuator, rear-mounted (RM)</i>   |             |                                |                                |                             |                                 |  |                                |                              |
| LB<br>    | DB5         | 30                             | 0.157 (4.0)                    | 0.421±0.051 (10.7±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.551 (14.0)                   | 0.189 (4.8)                  |
|  | DB1/3       | 60                             | 0.157 (4.0)                    | 0.421±0.051 (10.7±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.551 (14.0)                   | 0.189 (4.8)                  |
|  | DB6         | 60                             | 0.157 (4.0)                    | 0.421±0.051 (10.7±1.3)      | 0.079 (2.0)                     | 0.030 (0.75)                           | 0.551 (14.0)                   | 0.189 (4.8)                  |
|  | DB2         | 100                            | 0.177 (4.5)                    | 0.421±0.063 (10.7±1.6)      | 0.059 (1.5)                     | 0.028 (0.70)                           | 0.551 (14.0)                   | 0.189 (4.8)                  |
|  | DB7         | 115                            | 0.177 (4.5)                    | 0.421±0.063 (10.7±1.6)      | 0.059 (1.5)                     | 0.030 (0.75)                           | 0.551 (14.0)                   | 0.189 (4.8)                  |
| LC<br>    | DB5         | 25                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB1/3       | 50                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB6         | 50                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.047 (1.2)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB2         | 85                             | 0.197 (5.0)                    | 0.437±0.071 (11.1±1.8)      | 0.059 (1.5)                     | 0.039 (1.0)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB7         | 100                            | 0.197 (5.0)                    | 0.437±0.071 (11.1±1.8)      | 0.059 (1.5)                     | 0.047 (1.2)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
| LD<br>    | DB5         | 9                              | 0.591 (15.0)                   | 0.512±0.138 (13.0±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.063 (27.0)                   | 1.654 (42.0)                 |
|  | DB1/3       | 18                             | 0.591 (15.0)                   | 0.512±0.138 (13.0±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.063 (27.0)                   | 1.654 (42.0)                 |
|  | DB6         | 18                             | 0.591 (15.0)                   | 0.512±0.138 (13.0±3.5)      | 0.157 (4.0)                     | 0.268 (6.8)                            | 1.063 (27.0)                   | 1.654 (42.0)                 |
|  | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | on request                   |
| SB<br>   | DB5         | 30                             | 0.157 (4.0)                    | 0.630±0.051 (16.0±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB1/3       | 65                             | 0.157 (4.0)                    | 0.630±0.051 (16.0±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB6         | 65                             | 0.157 (4.0)                    | 0.630±0.051 (16.0±1.3)      | 0.079 (2.0)                     | 0.043 (1.1)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB2         | 110                            | 0.177 (4.5)                    | 0.630±0.063 (16.0±1.6)      | 0.059 (1.5)                     | 0.028 (0.7)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB7         | 125                            | 0.177 (4.5)                    | 0.630±0.063 (16.0±1.6)      | 0.059 (1.5)                     | 0.043 (1.1)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
| SC<br>  | DB5         | 25                             | 0.177 (4.5)                    | 0.646±0.059 (16.4±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB1/3       | 55                             | 0.177 (4.5)                    | 0.646±0.059 (16.4±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB6         | 55                             | 0.177 (4.5)                    | 0.646±0.059 (16.4±1.5)      | 0.079 (2.0)                     | 0.047 (1.2)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB2         | 95                             | 0.197 (5.0)                    | 0.646±0.071 (16.4±1.8)      | 0.059 (1.5)                     | 0.039 (1.0)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB7         | 110                            | 0.197 (5.0)                    | 0.646±0.071 (16.4±1.8)      | 0.059 (1.5)                     | 0.047 (1.2)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
| SD<br>  | DB5         | 9                              | 0.591 (15.0)                   | 0.720±0.138 (18.3±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB1/3       | 20                             | 0.591 (15.0)                   | 0.720±0.138 (18.3±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB6         | 20                             | 0.591 (15.0)                   | 0.720±0.138 (18.3±3.5)      | 0.157 (4.0)                     | 0.268 (6.8)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | on request                   |
| RB<br>  | DB5         | 30                             | 0.157 (4.0)                    | 0.622±0.051 (15.8±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB1/3       | 65                             | 0.157 (4.0)                    | 0.622±0.051 (15.8±1.3)      | 0.079 (2.0)                     | 0.020 (0.5)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB6         | 65                             | 0.157 (4.0)                    | 0.622±0.051 (15.8±1.3)      | 0.079 (2.0)                     | 0.030 (0.75)                           | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB2         | 110                            | 0.177 (4.5)                    | 0.622±0.063 (15.8±1.6)      | 0.059 (1.5)                     | 0.028 (0.7)                            | 0.748 (19.0)                   | 0.098 (2.5)                  |
|  | DB7         | 125                            | 0.177 (4.5)                    | 0.622±0.063 (15.8±1.6)      | 0.059 (1.5)                     | 0.030 (0.75)                           | 0.748 (19.0)                   | 0.098 (2.5)                  |
| RC<br>  | DB5         | 25                             | 0.177 (4.5)                    | 0.638±0.059 (16.2±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB1/3       | 55                             | 0.177 (4.5)                    | 0.638±0.059 (16.2±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB6         | 55                             | 0.177 (4.5)                    | 0.638±0.059 (16.2±1.5)      | 0.079 (2.0)                     | 0.047 (1.2)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB2         | 95                             | 0.197 (5.0)                    | 0.638±0.071 (16.2±1.8)      | 0.059 (1.5)                     | 0.039 (1.0)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
|  | DB7         | 110                            | 0.197 (5.0)                    | 0.638±0.071 (16.2±1.8)      | 0.059 (1.5)                     | 0.047 (1.2)                            | 0.787 (20.0)                   | 0.185 (4.7)                  |
| RD<br>  | DB5         | 9                              | 0.591 (15.0)                   | 0.713±0.138 (18.1±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB1/3       | 20                             | 0.591 (15.0)                   | 0.713±0.138 (18.1±3.5)      | 0.157 (4.0)                     | 0.177 (4.5)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB6         | 20                             | 0.591 (15.0)                   | 0.713±0.138 (18.1±3.5)      | 0.157 (4.0)                     | 0.268 (6.8)                            | 1.260 (32.0)                   | 1.563 (39.7)                 |
|  | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | on request                   |
| WB*<br> | DB5         | 24                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB1/3       | 50                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB6         | 50                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.035 (0.9)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB2         | 85                             | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
|  | DB7         | 100                            | 0.177 (4.5)                    | 0.437±0.059 (11.1±1.5)      | 0.079 (2.0)                     | 0.035 (0.9)                            | 0.591 (15.0)                   | 0.276 (7.0)                  |
| WC*<br> | DB5         | 18                             | 0.236 (6.0)                    | 0.480±0.071 (12.2±1.8)      | 0.118 (3.0)                     | 0.031 (0.8)                            | 0.669 (17.0)                   | 0.551 (14.0)                 |
|  | DB1/3       | 38                             | 0.236 (6.0)                    | 0.480±0.071 (12.2±1.8)      | 0.118 (3.0)                     | 0.031 (0.8)                            | 0.669 (17.0)                   | 0.551 (14.0)                 |
|  | DB6         | 38                             | 0.236 (6.0)                    | 0.480±0.071 (12.2±1.8)      | 0.118 (3.0)                     | 0.047 (1.2)                            | 0.669 (17.0)                   | 0.551 (14.0)                 |
|  | DB2         | 63                             | 0.236 (6.0)                    | 0.480±0.071 (12.2±1.8)      | 0.118 (3.0)                     | 0.031 (0.8)                            | 0.669 (17.0)                   | 0.551 (14.0)                 |
|  | DB7         | 75                             | 0.236 (6.0)                    | 0.480±0.071 (12.2±1.8)      | 0.118 (3.0)                     | 0.047 (1.2)                            | 0.669 (17.0)                   | 0.551 (14.0)                 |
| VB*<br> | DB5         | 25                             | 0.177 (4.5)                    | 0.469±0.055 (11.9±1.4)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.220 (5.6)                  |
|  | DB1/3       | 55                             | 0.177 (4.5)                    | 0.469±0.055 (11.9±1.4)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.220 (5.6)                  |
|  | DB6         | 55                             | 0.177 (4.5)                    | 0.469±0.055 (11.9±1.4)      | 0.079 (2.0)                     | 0.035 (0.9)                            | 0.591 (15.0)                   | 0.220 (5.6)                  |
|  | DB2         | 90                             | 0.177 (4.5)                    | 0.469±0.055 (11.9±1.4)      | 0.079 (2.0)                     | 0.024 (0.6)                            | 0.591 (15.0)                   | 0.220 (5.6)                  |
|  | DB7         | 105                            | 0.177 (4.5)                    | 0.469±0.055 (11.9±1.4)      | 0.079 (2.0)                     | 0.035 (0.9)                            | 0.591 (15.0)                   | 0.220 (5.6)                  |
| ZB*<br> | DB5         | 25                             | 0.177 (4.5)                    | 0.630±0.055 (16.0±1.4)      | 0.059 (1.5)                     | 0.024 (0.6)                            | 0.748 (19.0)                   | 0.205 (5.2)                  |
|  | DB1/3       | 55                             | 0.177 (4.5)                    | 0.630±0.055 (16.0±1.4)      | 0.059 (1.5)                     | 0.024 (0.6)                            | 0.748 (19.0)                   | 0.205 (5.2)                  |
|  | DB6         | 55                             | 0.177 (4.5)                    | 0.630±0.055 (16.0±1.4)      | 0.059 (1.5)                     | 0.035 (0.9)                            | 0.748 (19.0)                   | 0.205 (5.2)                  |
|  | DB2         | 90                             | 0.177 (4.5)                    | 0.630±0.055 (16.0±1.4)      | 0.059 (1.5)                     | 0.024 (0.6)                            | 0.748 (19.0)                   | 0.205 (5.2)                  |
|  | DB7         | 105                            | 0.177 (4.5)                    | 0.630±0.055 (16.0±1.4)      | 0.059 (1.5)                     | 0.035 (0.9)                            | 0.748 (19.0)                   | 0.205 (5.2)                  |

\*For 85°C only

## Actuator Specifications — High Ratio

| Actuator Code                                 | Switch Type | Maximum Operating Force (gms.) | Maximum Pre-Travel inches (mm) | Operating Point inches (mm) | Minimum Over-Travel inches (mm) | Max. Movement Differential inches (mm) | Max. Rest Position inches (mm) | Actuation Length inches (mm) |
|---|-------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------|--|--------------------------------|------------------------------|
| <i>Auxiliary actuator, front-mounted (FM)</i> |             |                                |                                |                             |                                 |  |                                |                              |
|   | MB DB5      | 12                             | 0.354 (9.0)                    | 0.472±0.098 (12.0±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.709 (18.0)                   | 0.276 (7.0)                  |
|   | DB1/3       | 25                             | 0.354 (9.0)                    | 0.472±0.098 (12.0±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.709 (18.0)                   | 0.276 (7.0)                  |
|   | DB6         | 25                             | 0.354 (9.0)                    | 0.472±0.098 (12.0±2.5)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.709 (18.0)                   | 0.276 (7.0)                  |
|   | DB2         | 40                             | 0.354 (9.0)                    | 0.472±0.118 (12.0±3.0)      | 0.138 (3.5)                     | 0.059 (1.5)                            | 0.709 (18.0)                   | 0.276 (7.0)                  |
|   | DB7         | 45                             | 0.354 (9.0)                    | 0.472±0.118 (12.0±3.0)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.709 (18.0)                   | 0.276 (7.0)                  |
|   | MC DB5      | 10                             | 0.394 (10.0)                   | 0.492±0.118 (12.5±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB1/3       | 22                             | 0.394 (10.0)                   | 0.492±0.118 (12.5±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB6         | 22                             | 0.394 (10.0)                   | 0.492±0.118 (12.5±3.0)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB2         | 35                             | 0.394 (10.0)                   | 0.492±0.138 (12.5±3.5)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB7         | 40                             | 0.394 (10.0)                   | 0.492±0.138 (12.5±3.5)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | MD DB5      | 4                              | 1.063 (27.0)                   | 0.709±0.315 (18.0±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.575 (40.0)                   | 1.713 (43.5)                 |
|   | DB1/3       | 9                              | 1.063 (27.0)                   | 0.709±0.315 (18.0±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.575 (40.0)                   | 1.713 (43.5)                 |
|   | DB6         | 9                              | 1.063 (27.0)                   | 0.709±0.315 (18.0±8.0)      | 0.394 (10.0)                    | 0.354 (9.0)                            | 1.575 (40.0)                   | 1.713 (43.5)                 |
|   | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | <i>on request</i>            |
|   | UB DB5      | 14                             | 0.354 (9.0)                    | 0.677±0.098 (17.2±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB1/3       | 30                             | 0.354 (9.0)                    | 0.677±0.098 (17.2±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB6         | 30                             | 0.354 (9.0)                    | 0.677±0.098 (17.2±2.5)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB2         | 50                             | 0.354 (9.0)                    | 0.677±0.118 (17.2±3.0)      | 0.138 (3.5)                     | 0.059 (1.5)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB7         | 56                             | 0.354 (9.0)                    | 0.677±0.118 (17.2±3.0)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | UC DB5      | 12                             | 0.394 (10.0)                   | 0.697±0.118 (17.7±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB1/3       | 25                             | 0.394 (10.0)                   | 0.697±0.118 (17.7±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB6         | 25                             | 0.394 (10.0)                   | 0.697±0.118 (17.7±3.0)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB2         | 40                             | 0.394 (10.0)                   | 0.697±0.138 (17.7±3.5)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB7         | 45                             | 0.394 (10.0)                   | 0.697±0.138 (17.7±3.5)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | UD DB5      | 4                              | 1.063 (27.0)                   | 0.913±0.315 (23.2±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB1/3       | 9                              | 1.063 (27.0)                   | 0.913±0.315 (23.2±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB6         | 9                              | 1.063 (27.0)                   | 0.913±0.315 (23.2±8.0)      | 0.394 (10.0)                    | 0.354 (9.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | <i>on request</i>            |
|   | TB DB5      | 14                             | 0.354 (9.0)                    | 0.669±0.098 (17.0±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB1/3       | 30                             | 0.354 (9.0)                    | 0.669±0.098 (17.0±2.5)      | 0.138 (3.5)                     | 0.047 (1.2)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB6         | 30                             | 0.354 (9.0)                    | 0.669±0.098 (17.0±2.5)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB2         | 50                             | 0.354 (9.0)                    | 0.669±0.118 (17.0±3.0)      | 0.138 (3.5)                     | 0.059 (1.5)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | DB7         | 56                             | 0.354 (9.0)                    | 0.669±0.118 (17.0±3.0)      | 0.138 (3.5)                     | 0.071 (1.8)                            | 0.866 (22.0)                   | 0.185 (4.7)                  |
|   | TC DB5      | 12                             | 0.394 (10.0)                   | 0.689±0.118 (17.5±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB1/3       | 25                             | 0.394 (10.0)                   | 0.689±0.118 (17.5±3.0)      | 0.157 (4.0)                     | 0.055 (1.4)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB6         | 25                             | 0.394 (10.0)                   | 0.689±0.118 (17.5±3.0)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB2         | 40                             | 0.394 (10.0)                   | 0.689±0.138 (17.5±3.5)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | DB7         | 45                             | 0.394 (10.0)                   | 0.689±0.138 (17.5±3.5)      | 0.157 (4.0)                     | 0.083 (2.1)                            | 0.945 (24.0)                   | 0.280 (7.1)                  |
|   | TD DB5      | 4                              | 1.063 (27.0)                   | 0.906±0.315 (23.0±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB1/3       | 9                              | 1.063 (27.0)                   | 0.906±0.315 (23.0±8.0)      | 0.394 (10.0)                    | 0.236 (6.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB6         | 9                              | 1.063 (27.0)                   | 0.906±0.315 (23.0±8.0)      | 0.394 (10.0)                    | 0.354 (9.0)                            | 1.732 (44.0)                   | 1.622 (41.2)                 |
|   | DB2/7       | —                              | —                              | —                           | —                               | —                                      | —                              | <i>on request</i>            |
|   | GB* DB5     | 10                             | 0.394 (10.0)                   | 0.508±0.102 (12.9±2.6)      | 0.118 (3.0)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB1/3       | 21                             | 0.394 (10.0)                   | 0.508±0.102 (12.9±2.6)      | 0.118 (3.0)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB6         | 21                             | 0.394 (10.0)                   | 0.508±0.102 (12.9±2.6)      | 0.118 (3.0)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB2         | 36                             | 0.394 (10.0)                   | 0.508±0.102 (12.9±2.6)      | 0.118 (3.0)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | DB7         | 42                             | 0.394 (10.0)                   | 0.508±0.102 (12.9±2.6)      | 0.118 (3.0)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.370 (9.4)                  |
|   | GC* DB5     | 7                              | 0.512 (13.0)                   | 0.571±0.142 (14.5±3.6)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.945 (24.0)                   | 0.638 (16.2)                 |
|   | DB1/3       | 16                             | 0.512 (13.0)                   | 0.571±0.142 (14.5±3.6)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.945 (24.0)                   | 0.638 (16.2)                 |
|   | DB6         | 16                             | 0.512 (13.0)                   | 0.571±0.142 (14.5±3.6)      | 0.157 (4.0)                     | 0.083 (2.4)                            | 0.945 (24.0)                   | 0.638 (16.2)                 |
|   | DB2         | 26                             | 0.512 (13.0)                   | 0.571±0.142 (14.5±3.6)      | 0.157 (4.0)                     | 0.071 (1.8)                            | 0.945 (24.0)                   | 0.638 (16.2)                 |
|   | DB7         | 30                             | 0.512 (13.0)                   | 0.571±0.142 (14.5±3.6)      | 0.157 (4.0)                     | 0.094 (2.4)                            | 0.945 (24.0)                   | 0.638 (16.2)                 |
|   | HB* DB5     | 11                             | 0.354 (9.0)                    | 0.531±0.098 (13.5±2.5)      | 0.098 (2.5)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.311 (7.9)                  |
|   | DB1/3       | 23                             | 0.354 (9.0)                    | 0.531±0.098 (13.5±2.5)      | 0.098 (2.5)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.311 (7.9)                  |
|   | DB6         | 23                             | 0.354 (9.0)                    | 0.531±0.098 (13.5±2.5)      | 0.098 (2.5)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.311 (7.9)                  |
|   | DB2         | 29                             | 0.354 (9.0)                    | 0.531±0.098 (13.5±2.5)      | 0.098 (2.5)                     | 0.055 (1.4)                            | 0.787 (20.0)                   | 0.311 (7.9)                  |
|   | DB7         | 45                             | 0.354 (9.0)                    | 0.531±0.098 (13.5±2.5)      | 0.098 (2.5)                     | 0.083 (2.1)                            | 0.787 (20.0)                   | 0.311 (7.9)                  |
|   | OB* DB5     | 11                             | 0.354 (9.0)                    | 0.693±0.098 (17.6±2.5)      | 0.079 (2.0)                     | 0.055 (1.4)                            | 0.906 (23.0)                   | 0.287 (7.3)                  |
|   | DB1/3       | 23                             | 0.354 (9.0)                    | 0.693±0.098 (17.6±2.5)      | 0.079 (2.0)                     | 0.055 (1.4)                            | 0.906 (23.0)                   | 0.287 (7.3)                  |
|   | DB6         | 23                             | 0.354 (9.0)                    | 0.693±0.098 (17.6±2.5)      | 0.079 (2.0)                     | 0.083 (2.1)                            | 0.906 (23.0)                   | 0.287 (7.3)                  |
|   | DB2         | 39                             | 0.354 (9.0)                    | 0.693±0.098 (17.6±2.5)      | 0.079 (2.0)                     | 0.055 (1.4)                            | 0.906 (23.0)                   | 0.287 (7.3)                  |
|   | DB7         | 45                             | 0.354 (9.0)                    | 0.693±0.098 (17.6±2.5)      | 0.079 (2.0)                     | 0.083 (2.1)                            | 0.906 (23.0)                   | 0.287 (7.3)                  |

\*For 85°C only

## Ordering Information

**DB** — **1**

Series/Prefix

| Code | UL Rating 1054                      | EN 61058 Rating  |
|------|-------------------------------------|------------------|
| 1    | 5A, 125/250VAC                      | 6A, 250V~        |
| 2    | 10.1A, 125/250VAC<br>1/4HP, 125VAC  | 10(1.5)A, 250V~  |
| 3    | 0.1A, 125/250VAC                    | 0.1A, 250V       |
| 5*   | 1A, 125/250VAC                      | 1A, 250V         |
| 6*   | 5A, 125/250VAC                      | 6A, 250V         |
| 7*   | 10.1A, 125/250VAC<br>1/4 HP, 125VAC | 10 (1.5)A, 250V~ |

\*85°C only

Specifications subject to change without notice.

**B** —

| Code                         | Contact Configuration |
|------------------------------|-----------------------|
| <b>+120°C Operating Temp</b> |                       |
| A                            | SPST NO               |
| B                            | SPST NC               |
| C                            | SPDT                  |
| <b>+85°C Operating Temp*</b> |                       |
| E                            | SPST NO               |
| F                            | SPST NC               |
| G                            | SPDT                  |

\*85°C versions use plastic levers

**B1**

| Code | Terminal Type inches (mm)                                 |
|------|---|
| B1   | 0.110 x 0.020 (2.8 x 0.5) QC, Straight                    |
| A1   | Solder, Short   |
| C1   | 0.051 x 0.020 (1.3 x 0.5) PCB, Straight                   |
| D1   | 0.024 x 0.020 (0.6 x 0.5) PCB, Straight                   |
| D2   | 0.024 x 0.020 (0.6 x 0.5) PCB, RH Side with Location Pins |
| D3   | 0.024 x 0.020 (0.6 x 0.5) PCB, LH Side with Location Pins |
| D4   | 0.024 x 0.020 (0.6 x 0.5) PCB, RH Side                    |
| D5   | 0.024 x 0.020 (0.6 x 0.5) PCB, LH Side                    |

**AA**

| Code | Actuator Type*                        |
|------|---------------------------------------|
| AA   | Spherical-head w/o Auxiliary Actuator |
| BA   | Radius w/o Auxiliary Actuator         |

\*For further actuators see Actuation Specifications table.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Basic / Snap Action Switches](#) category:*

*Click to view products by [ZF Cherry](#) manufacturer:*

Other Similar products are found below :

[5SM901-S12](#) [5SM9-S12N195](#) [602EN532](#) [602EN535-RB](#) [602HE5-RB1](#) [604HE162](#) [604HE223-6B](#) [624HE17-RB](#) [6HM82](#) [6HM89](#) [6SE1](#)  
[6SX1-H58](#) [70500216](#) [70599106](#) [MBD5B1](#) [MBH2731](#) [73-316-0012](#) [EXD-AR20](#) [79211923](#) [79218589](#) [7AS12](#)  
[MIL30126AB6BBMD4A12XAU](#) [ML-1155](#) [ML-1376](#) [831010C3.0](#) [831090C2.EL](#) [83131904](#) [84212012](#) [8AS239](#) [8HM73-3](#) [8SX26-H33](#)  
[914CE1-6G](#) [PL-100](#) [11SM1077-H4](#) [11SM1077-H58](#) [11SM1-TN107](#) [11SM405](#) [11SM8423-H2](#) [11SX37-T](#) [11SX48-H58](#) [11SM2442-T](#)  
[11SM76-T](#) [11SM77-H58](#) [11SM77-T](#) [11SM863-T](#) [11SM866](#) [A7CN-1M-1-LEFT](#) [A831700C7.0](#) [121EN188-R](#) [1245.0120](#)