

# SIM16-DB-2



## Key Features

- Modular DC Switch, 16A
- 600VDC, 16A
- Lever Handle
- IP40
- 2 Pole, 1 String



## Technical Data for DC according to IEC 60947-3

| Main Contacts   | DC              | Units           | SIM16 (DC-PV1)                                 | SIM16 (DC-PV2) |
|---|-----------------|-----------------|--|----------------|
| Rated Thermal Current $I_{th}$                                |                 | A               | 16   |                |
| Rated Insulation Voltage $U_I$ 1)                             |                 | V               | 1000   |                |
| Rated Insulation Voltage $U_I$ 2)                             |                 | V               | 1500   |                |
| Distance of Contacts (per pole)                               |                 | mm              | 8  |                |
| 2 poles in series   | 500V            | A               | 16   | 16             |
| <b>Rated Operational Current <math>I_n</math></b><br>         | 600V            | A               | 16   | 14             |
|   | 700V            | A               | 16   | 13             |
|   | 800V            | A               | 16   | 12             |
|   | 900V            | A               | 16   | 8              |
|   | 1000V           | A               | 10   | 4              |
|   | 1100V           | A               | 8  | 3              |
|   | 1200V           | A               | 7  | 2              |
|   | 1300V           | A               | 6  | 1.5            |
|   | 1400V           | A               | 5  | 1              |
|   | 1500V           | A               | 3  | 1              |
| <b>Rated Operational Current <math>I_n</math></b><br>AC21B    | $U_g$ max. 440V | A               | 16   |                |
| <b>Rated Conditional Short Circuit Current</b>                |                 | $kA_{eff}$      | 5  |                |
| Max. Fuse Size  | gL (gG)         | A               | 40   |                |
| Mechanical Life   |                 | Ops             | 10,000   |                |
| Rated Short-time Withstand Current (1s)                       |                 | A               | 800  |                |
| Short Circuit Making Capacity                                 |                 | A               | 800  |                |
| <b>Maximum Cable Cross Section (Including Jumper SIMV-B1)</b> |                 |                 |  |                |
| Solid Stranded  |                 | mm <sup>2</sup> | 1.5-10   |                |
| Flexible  |                 | mm <sup>2</sup> | 1.5-6  |                |
| Flexible (+ Multicore Cable End)                              |                 | mm <sup>2</sup> | 1.5-6  |                |
| Size of Terminal Screw  |                 |                 | M3.5 Pz1                                       |                |
| Tightening Torque   |                 |                 | 1.4  |                |
| <b>2 Cables per Clamp Without Jumper SIMV-B1</b>              |                 |                 |  |                |
| Solid or Stranded   |                 | mm <sup>2</sup> | 2 x 0.5mm <sup>2</sup> to 2 x 6mm <sup>2</sup> |                |
| <b>Maximum Ambient Temperature</b>                            |                 |                 |  |                |
| Operation Open  |                 | °C              | -40 to +65                                     |                |
| Storage   |                 | °C              | -50 to +90                                     |                |
| Contact Resistance per Pole                                   |                 | mΩ              | 1.75   |                |

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry);  $U_{imp} = 8kV$ .  
 2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55);  $U_{imp} = 8kV$ .

## Technical Data for DC according to UL508i. File E362605

| Main Contacts   | DC   | Units   | SIM16    |
|---|------|---------|----------|
| Ampere-Rating "General Use"                                       | 350V | A       | 16       |
|   | 500V | A       | 16       |
|   | 600V | A       | 16       |
| <b>Maximum cable cross sections (Including Jumper SIMV-B1/B2)</b> |      |         |          |
| Solid   |      | AWG     | 16-10    |
| Stranded  |      | AWG     | 20-6     |
| Size of Terminal Screw  |      |         | M3.5 Pz1 |
| Tightening Torque   |      | lb.inch | 12.4     |

# SIM16-DB-2



Technical Datasheet

## Dimensions (mm)

