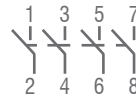


# SIM38-DB-4



## Key Features

- Modular DC Switch, 38A
- 600VDC, 38A
- Lever Handle
- IP40
- 4 Pole, 2 Strings



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

| Main Contacts  | DC              | Units             | SIM38 (DC-PV1)                                 | SIM38 (DC-PV2) |
|--|-----------------|-------------------|--|----------------|
| Rated Thermal Current $I_{th}$                         |                 | A                 | 38   |                |
| Rated Insulation Voltage $U_I$ <sup>1)</sup>           |                 | V                 | 1000   |                |
| Rated Insulation Voltage $U_I$ <sup>2)</sup>           |                 | V                 | 1500   |                |
| Distance of Contacts (per pole)                        |                 | mm                | 8  |                |
| 2 poles in series                                      | 500V            | A                 | 45   | 38             |
|  | 600V            | A                 | 45   | 31             |
|  | 700V            | A                 | 36   | 25             |
|  | 800V            | A                 | 30   | 19             |
|  | 900V            | A                 | 25   | 14             |
|  | 1000V           | A                 | 20   | 7              |
|  | 1100V           | A                 | -  | -              |
|  | 1200V           | A                 | 10   | 4              |
|  | 1300V           | A                 | -  | -              |
|  | 1400V           | A                 | -  | -              |
|  | 1500V           | A                 | 6  | 2              |
| Rated Operational Current $I_o$<br>AC21B               | $U_o$ max. 440V | A                 | 45   |                |
| Rated Conditional Short Circuit Current                |                 | kA <sub>eff</sub> | 5  |                |
| Max. Fuse Size   | gL (gG)         | A                 | 80   |                |
| Mechanical Life  |                 | Ops               | 10,000   |                |
| Rated Short-time Withstand Current (1s)                |                 | A                 | 1,000  |                |
| Short Circuit Making Capacity                          |                 | A                 | 1,000  |                |
| Maximum Cable Cross Section (Including Jumper SIMV-B1) |                 |                   |  |                |
| 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  |                |
| 2 Cables per Clamp Without Jumper SIMV-B1              |                 |                   |  |                |
| Solid or Stranded                                      |                 | mm <sup>2</sup>   | 2 x 0.5mm <sup>2</sup> to 2 x 6mm <sup>2</sup> |                |
| Maximum Ambient Temperature                            |                 |                   |  |                |
| 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 NO.: E362605

| Main Contacts  | DC   | Units   | SIM38    |
|--|------|---------|----------|
| Ampere-Rating "General Use"                                | 350V | A       | 38       |
|  | 500V | A       | 38       |
|  | 600V | A       | 38       |
| Maximum cable cross sections (Including Jumper SIMV-B1/B2) |      |         |          |
| Solid  |      | AWG     | 16-10    |
| Stranded   |      | AWG     | 20-6     |
| Size of Terminal Screw                                     |      |         | M3.5 Pz1 |
| Tightening Torque  |      | lb.inch | 12.4     |

# SIM38-DB-4



Technical Datasheet

## Dimensions (mm)

