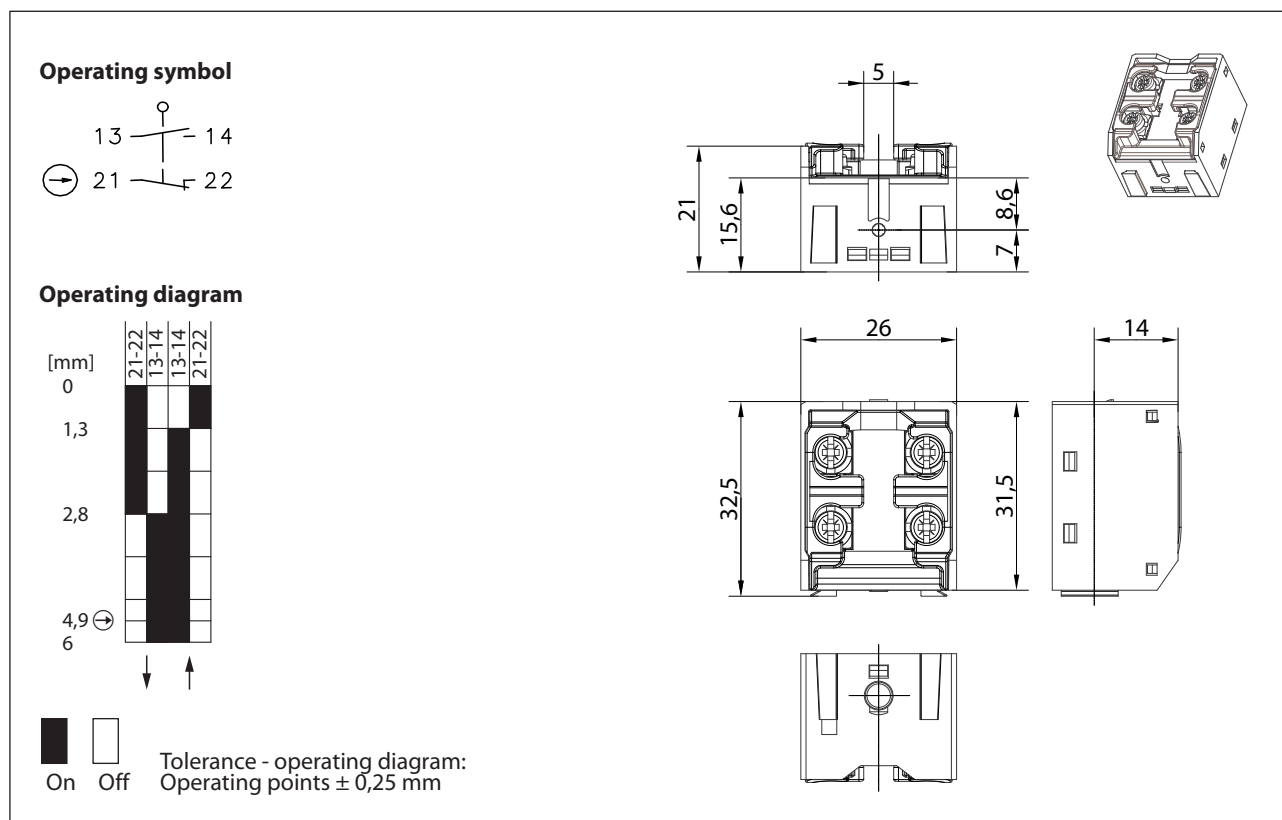


Mechanical switching device Series C14

Description **C14-SU1Z**

Article number **3935199001**



| Electrical Data acc. IEC/EN 60947-5-1 | | |
|--|---------------|---|
| Rated insulation voltage | U_i | 400 V |
| Rated impulse withstand voltage | U_{imp} | 4 kV |
| Rated operational voltage | U_e | 240 V AC / 24 V DC |
| Rated supply frequency AC | | 50 / 60 Hz |
| Overvoltage category | | II acc. EN 60947-1 annex H table H1 |
| Conventional enclosed thermal current | I_{the} | 5 A |
| Minimum current | | 1 mA |
| Reliability | | acc. EN 60947-5-4 @ 24 V DC, 1 mA, U_{kd} 2,4 V DC |
| Utilization category and rated values | | AC-15, U_e/I_e 240 V / 1,5 A DC-13, U_e/I_e 24 V / 1,5 A (B300 table A.1) |
| Direct opening action | \rightarrow | acc. IEC/EN 60947-5-1, annex K |
| Short-circuit protective device | | Fuse 4 A gG |
| Rated conditional short-circuit current | | 400 A |
| Max. contact resistance | | 25 mOhm (unused) |
| Electrical life | | on request |

| Mechanical data | |
|--------------------------|---|
| Enclosure | Thermoplastic, glass fibre reinforced (UL 94-V0) |
| Fastening | Locking connection with switches of the BERNSTEIN AG |
| Actuator | Plunger (Thermoplastic, glass fibre reinforced (UL 94-V0)) |
| Min. actuating force | F_{bmin} 14 N |
| Max. force at stroke end | F_{bmax} 30 N |
| Direct opening force | F_{\ominus} 18 N |
| Operating temperature | -30 °C ... +75 °C |
| Storage temperature | -40 °C ... +80 °C |
| Protection type | IP00 acc. EN 60529 |
| Pollution degree | 3 |
| Contact material | silver |
| Device class | Category E (MC3 + CC2 + SC1) acc. EN 60947-1 annex Q |
| Contact type | 1 N.C. (Form Zb), 1 N.O. |
| Operating rate | V 0,06 m/min $\leq V \leq$ 30 m/min |
| Bounce duration | ms < 3 ms |
| Switchover time | ms < 8 ms |
| Switching frequency | \leq 100 / min. |
| Mechanical life | 10 x 10 ⁶ operating cycles |
| Mission time | 20 years |
| Connection | 4 screw connections (M3) |
| Conductor cross-sections | Solid or Litz wire with ferrules 0,34 mm ² - 1,5 mm ² ; AWG 22 - 16 |
| Weight | \approx 0,02 kg |
| Installation position | operator definable |

| Actuation |
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| The push bolt actuator is mainly intended to be actuated along its axis. |

| ID for safety engineering | |
|---------------------------|---|
| B10d N.C. | 20 x 10 ⁶ cycles (check acc. to DIN EN 60947-5-1) |
| B10d N.O. | 1 x 10 ⁶ cycles (when the contacts are loaded with \leq 10 % of the maximum electrical values for an ohmic load) |

| Standards |
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| VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 |
| VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 |
| VDE 0660 T211, DIN EN 60947-5-4, IEC 60947-5-4 |
| UL 60947-1, CAN/CSA-22.2 No. 60947-1-13 |
| UL 60947-5-1, CAN/CSA-C22.2 No. 60947-5-1-14 |
| DIN EN ISO 13849-1 |
| DIN EN ISO 13849-2 |

| EU Conformity |
|--|
| acc. to directive 2014/35/EU (Low-Voltage-Directive) |

| Approvals |
|---|
| cUR _{US} (Mechanical switching device without protection type) |
| CCC |

| Notes |
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| Because of the open construction of the device there is no special protection against ingesting of water and touching parts under voltage. |