

Technical Data Ex9CC

Capacitor contactors Ex9CC

General parameters

| | | |
|---|--------|-----------------|
| Contactors rated at AC-6b | | |
| Suitable for switching of power factor compensation | | |
| 3-pole versions | | |
| Mounting onto device rail DIN (35 or 75 mm) or onto panel | | |
| With various combinations of built-in auxiliary contacts | | |
| Accessories | | |
| Side-mounted auxiliary contacts | AX4311 | 101292 |
| Surge suppressor blocks | CCU4 | 104495 - 104500 |

Electrical parameters - main contacts and general

| | Ex9CC25 | Ex9CC38 | Ex9CC50 | Ex9CC65 | Ex9CC80 | Ex9CC100 |
|--|--|------------|-------------------------------|-------------|-------------|-------------|
| Tested according to | IEC/EN 60947-4-1 | | | | | |
| Rated operating voltage U_e | 220-240 V AC, 380-415 V AC, 660-690 V AC | | | | | |
| Rated insulating voltage U_i | 690 V AC | | | | | |
| Rated frequency | 50/60 Hz | | | | | |
| Conventional free air thermal current I_{th} | 50 A | 50 A | 80 A | 80 A | 125 A | 125 A |
| Rated current AC-6b I_e | | | | | | |
| AC-6b, 220-240 V | 25 A | 38 A | 50 A | 65 A | 80 A | 100 A |
| AC-6b, 380-415 V | 25 A | 38 A | 50 A | 65 A | 80 A | 100 A |
| AC-6b, 660-690 V | 17.3 A | 21.9 A | 39 A | 42 A | 49 A | 49 A |
| Rated operational power Q_e | | | | | | |
| AC-6b, 220-240 V | 8 kvar | 15 kvar | 20 kvar | 25 kvar | 30 kvar | 40 kvar |
| AC-6b, 380-415 V | 16 kvar | 25 kvar | 30 kvar | 40 kvar | 50 kvar | 60 kvar |
| AC-6b, 660-690 V | 25 kvar | 40 kvar | 50 kvar | 60 kvar | 80 kvar | 90 kvar |
| Mechanical service life | 1 000 000 operation cycles | | | | | |
| Electrical service life | 200 000 operation cycles | | | | | |
| Operating frequency | 180 operation cycles per hour | | 100 operation cycles per hour | | | |
| Max. permissible peak current I | 30 x I_e | | | | | |
| Maximum short-circuit protection fuse Coordination type 1 | 63 A gG/gL | 63 A gG/gL | 100 A gG/gL | 160 A gG/gL | 200 A gG/gL | 200 A gG/gL |
| Rated impulse withstand voltage U_{imp} | 6 kV | | | | | |
| Safe isolation (EN 61140) | | | | | | |
| Main contact | 400 V AC | | 690 V AC | | 690 V AC | |
| Coil | 400 V AC | | 690 V AC | | 690 V AC | |
| Overvoltage category | III | | | | | |
| EMC environment | A | | | | | |
| Comparative Tracking Index | 400 A | | | | | |
| Prospective short circuit current I_q | 50 kA | | | | | |

Technical Data Ex9CC

Capacitor contactors Ex9CC

Electrical parameters - coil

| | Ex9CC25/38 | Ex9CC50/65 | Ex9CC80/100 |
|------------------------------------|---|----------------|----------------|
| Control Voltage U_c | 24, 36, 42, 48, 110, 127, 220, 230, 240, 380, 400, 415 V AC | | |
| Tolerance of Control Voltage U_c | 0.85 - 1.15 x U_c | | |
| Frequency | 50/60 Hz | | |
| Power consumption | | | |
| Pick-up | 100 VA / 50 W | 240 VA / 100 W | 280 VA / 120 W |
| Hold | 10.5 VA / 5W | 25 VA / 10 W | 30 VA / 12 W |
| Duty | 100% | | |
| Closing delay | 14 - 27 ms | 20 - 30 ms | 20 - 35 ms |
| Opening delay | 7 - 22 ms | 8 - 20 ms | 6 - 20 ms |

Electrical parameters - built-in auxiliary contacts

| | | | |
|--|--|--|--|
| Rated operational voltage U_e | 415 V AC | | |
| Rated frequency | 50 Hz | | |
| Conventional free air thermal current I_{th} | 10 A | | |
| Rated operational current I_e | | | |
| AC-15 | 6 A / 120 V, 3 A / 240 V, 1.9 A / 415 V, 1.2 A / 600 V | | |
| DC-13 | 0.55 A / 125 V, 0.31 A / 250 V | | |
| Making capacity | | | |
| AC-15 | 7200 VA | | |
| DC-13 | 69 W | | |
| Breaking capacity | | | |
| AC-15 | 720 VA | | |
| DC-13 | 69 W | | |

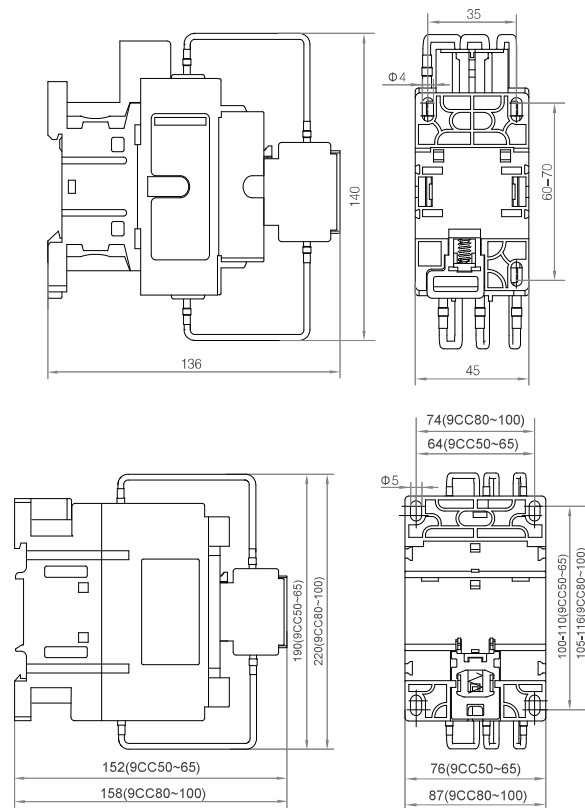
Mechanical parameters

| | Ex9CC25/38 | Ex9CC50/65 | Ex9CC80/100 |
|---|---|--------------------------|------------------------|
| Device width | 45 mm | 76 mm | 87 mm |
| Device height (including comp. block) | 140 mm | 190 mm | 220 mm |
| Device depth (including comp. block) | 136 mm | 152 mm | 158 mm |
| Mounting | easy fastening onto 35 mm (75 mm) device rail (DIN) or onto panel | | |
| Degree of protection | IP20 | | |
| Terminals | lift | | |
| Main contact terminal capacity | 2.5 — 10 mm ² | 2.5 — 25 mm ² | 4 — 50 mm ² |
| Fastening torque of main contact terminals | 2.5 Nm | 6 Nm | 9 Nm |
| Auxiliary contact terminal capacity | 2x 1.5 - 6 mm ² (multi wire) 2x 1 - 4 mm ² (fine wire) | | |
| Fastening torque of auxiliary contact terminals | 1.5 - 1.7 Nm | | |
| Ambient temperature | -20 — +40 °C | | |
| Altitude | ≤ 2000 m | | |
| Relative humidity | ≤ 90 % | | |
| Resistance to humidity and heat | class 2 | | |
| Pollution degree | 3 | | |
| Installation class | III | | |
| Weight | 0.62 kg | 1.65 kg | 1.9 kg |
| Power loss at I_e | 3 W | 4.2 W | 7.5 W |

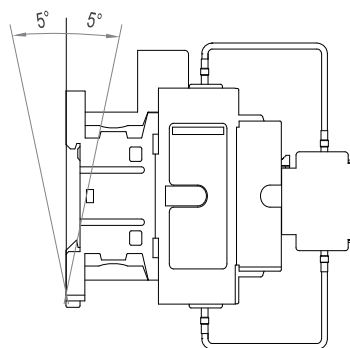
Technical Data Ex9CC

Capacitor contactors Ex9CC

Dimensions



Mounting position



Wiring diagram

