

CBC 80 to 630 A, single-pole versions



2 types:

With a closing pole

CBC 57 80,
CBC 57 150,
CBC 68 200,
CBC 96 400,
CBC 96 630.

With an opening pole

RUBC 96 400,
RUBC 96 630.



CBC 57 80

CBC 96 400

Use

Switching-on and cutting-off resistive or inductive circuits. Nominal operating voltage: 500 V_a.

Description

- Single pin arc-blowout main pole (reinforced magnetic blowout for adaptation to nominal current, on request).
- Silver or silver alloy contacts for all the range, for use under continuous, semi-intensive and intensive duties DC₁ to DC₅.
- Copper contacts for the calibres 150, 200, 400 and 630 A for current use under semi-intensive and intensive duties DC₂ to DC₅.
- Solid closing electromagnet in iron, direct DC supply for the coil without economy resistor, except for the RUBC 96 400 and 630 contactors.

Options

- Possible addition M type auxiliary contact blocks (2 blocks at maximum).
- Horizontal mechanical locking facility.
- Reinforced insulation.
- Tropical treatment n° 2.



**NEW
PRODUCT**

Single pole DC contactors

4. CBC 80 - 150 - 200 - 400 - 630 and RUBC 400 to 630

Standards: IEC 947.4.1.

(In conformity with UTEC 63-100, IEC 158-1 standards and VERITAS regulations.)

| | | CBC 57-80 | | CBC 57-150 | | CBC 68-200 | |
|----------------------------------------------------------------------------------------------|------------------------|------------------------------------|----------|-------------------|--|---------------------------|--|
| Thermal nominal current⁽¹⁾ | A | 100 | | 250 | | 320 | |
| connecting section | mm ² | 35 | | 70 | | 95 | |
| Nominal operating voltage | V | 500 | | 500 | | 500 | |
| Maximum controlled powers⁽²⁾ | voltage | V 220/250 | | 440/500 | | 220/250 440/500 | |
| DC_2 - DC_4 duty cycle | kW | 22 | | 44 | | 45 90 65 130 | |
| Current switch-off rating L/R = 15 ms, all contacts | | | | | | | |
| in open air under 500 V | A | 500 | | 1400 | | 3500 | |
| in cubicle | voltage | V 250 | | 500 | | 250 500 250 500 | |
| safety perimeter for | | | | | | | |
| metallic walls | | | | | | | |
| insulated walls | | | | | | | |
| M | N | M | N | | | | |
| 45 | 25 | 35 | 20 | A | | 300 3000 500 | |
| 50 | 40 | 40 | 30 | A 250 | | | |
| 110 | 80 | 90 | 65 | A | | 150 | |
| 125 | 95 | 105 | 75 | A | | 500 165 4250 600 | |
| 140 | 110 | 120 | 90 | A 900 | | | |
| 175 | 125 | 145 | 105 | A | | 700 | |
| 195 | 145 | 185 | 135 | A | | 1400 600 | |
| 245 | 175 | 225 | 105 | A | | 700 1000 | |
| Arcing time at current switch-off rating | ms | 60 | | 75 | | 88 | |
| Magnetic blowout | normal | A 100 | | 250 | | 320 | |
| | reinforced | A 10 - 16 - 25 - 40 ⁽⁴⁾ | | 80 ⁽⁴⁾ | | 150 ⁽⁴⁾ | |
| Current switch-on rating L/R = 15 ms | A | 500 | | 1400 | | 3500 | |
| Control circuit | | | | | | | |
| standard voltages ⁽³⁾ | V | 110 - 115/125 - 220/230 | | 110/125 - 220/230 | | 110 - 115/125 - 200/220 | |
| consumptions | W | 19 | | 23 | | 30 | |
| closing time at Un | ms | 125 | | 180 | | 220 | |
| opening time between command and | | | | | | | |
| separation of contacts | ms | 25 | | 30 | | 35 | |
| complete opening of electromagnet | ms | 77 | | 85 | | 110 | |
| Mechanical endurance | millions of operations | 5 | | 5 | | 10 | |
| Number maximum of instant auxiliary contacts (M type blocks with 2 or 3 contacts). | | 6 NO 3 NO 1 NC | | 6 NO 4 NO 1 NC | | 6 NO 4 NO 2 NC 3 NC | |

| | | RUBC 96 | | CBC 96 | |
|----------------------------------------------------------------------------------------------|------------------------|---------------------------|------|--------|------|
| | | 400 | 630 | 400 | 630 |
| Thermal nominal current⁽¹⁾ | A | 500 | 630 | 500 | 630 |
| connecting section | mm ² | 240 | 400 | 240 | 400 |
| Nominal operating voltage | V | 600 | 600 | 600 | 600 |
| Maximum operating voltage | V | 700 | 700 | 700 | 700 |
| DC_2 - DC_4 duty cycle | kW | 200 | 250 | 200 | 250 |
| Current switch-off rating L/R = 15 ms | | | | | |
| in open air under 500 V | A | 6000 | 8500 | 6000 | 8500 |
| Safety perimeter for | | | | | |
| metallic walls | | | | | |
| M | mm | 80 | 100 | 80 | 100 |
| N | mm | 40 | 60 | 40 | 60 |
| insulated walls | | | | | |
| M | mm | 40 | 60 | 40 | 60 |
| N | mm | 30 | 40 | 30 | 40 |
| Arcing time at current switch-off rating | ms | 40 | 40 | 40 | 40 |
| Magnetic blowout | normal | A 400 | 630 | 400 | 630 |
| Current switch-on rating L/R = 15 ms | A | 6000 | 8500 | 6000 | 8500 |
| Control circuit | | | | | |
| standard voltages ⁽³⁾ | V | 110 - 127 - 220/230 - 250 | | | |
| consumptions | W | 460/60 | | 125 | 125 |
| closing time at Un | ms | | | 160 | 160 |
| opening time between command and | | | | | |
| separation of contacts | ms | 50 | 50 | 38 | 38 |
| Mechanical endurance | millions of operations | 10 | 10 | 10 | 10 |
| Number maximum of instant auxiliary contacts (M type blocks with 2 or 3 contacts). | | 6 | 6 | 6 | 6 |

(1) in open air, DC_1 duty, silver contacts and normal blowout.

(2) 30 operations/hour, duty factor f 20 %.

(3) for other voltages, please consult us.

(4) possible blowout calibration:

CB 80 A: 1-2-3-4-6-10-16-25-40 A.

CB 150 A: 1-2-3-4-6-10-16-25-40-80 A.

CB 200 A: 1-2-3-4-6-10-16-25-40-80-150 A