

# 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<sub>a</sub>.

## 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 DC<sub>1</sub> to DC<sub>5</sub>.
- Copper contacts for the calibres 150, 200, 400 and 630 A for current use under semi-intensive and intensive duties DC<sub>2</sub> to DC<sub>5</sub>.
- 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                |              |
|--|------------------------|----------------------------------|----------|-------------------|-----|---------------------------|--------------|
| <b>Thermal nominal current<sup>(1)</sup></b>               | A                      | 100                              |          | 250               |     | 320                       |              |
| connecting section   | mm <sup>2</sup>        | 35                               |          | 70                |     | 95                        |              |
| <b>Nominal operating voltage</b>                           | V                      | 500                              |          | 500               |     | 500                       |              |
| <b>Maximum controlled powers<sup>(2)</sup></b>             | voltage                | V 220/250                        |          | 440/500           |     | 220/250 440/500           |              |
| DC_2 - DC_4 duty cycle                                     | kW                     | 22                               |          | 44                |     | 45 90 65 130              |              |
| <b>Current switch-off rating L/R = 15 ms, all contacts</b> |                        |                                  |          |                   |     |                           |              |
| 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  |                        |                                  |          |                   |     |                           |              |
| <b>M</b>   | <b>N</b>               | <b>M</b>                         | <b>N</b> |                   |     |                           |              |
| 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     |
| <b>Arcing time at current switch-off rating</b>            | ms                     | 60                               |          | 75                |     | 88                        |              |
| <b>Magnetic blowout</b>                                    |                        |                                  |          |                   |     |                           |              |
| normal   | A                      | 100                              |          | 250               |     | 320                       |              |
| reinforced   | A                      | 10 - 16 - 25 - 40 <sup>(4)</sup> |          | 80 <sup>(4)</sup> |     | 150 <sup>(4)</sup>        |              |
| <b>Current switch-on rating L/R = 15 ms</b>                | A                      | 500                              |          | 1400              |     | 3500                      |              |
| <b>Control circuit</b>                                     |                        |                                  |          |                   |     |                           |              |
| standard voltages <sup>(3)</sup>                           | 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                       |              |
| <b>Mechanical endurance</b>                                | millions of operations | 5                                |          | 5                 |     | 10                        |              |
| <b>Number maximum of instant auxiliary contacts</b>        |                        | 6 NO<br>3 NO 1 NC                |          | 6 NO<br>4 NO 1 NC |     | 6 NO<br>4 NO 2 NC<br>3 NC |              |

|   |                        | RUBC 96                   |      | CBC 96 |      |
|---|------------------------|---------------------------|------|--------|------|
|   |                        | 400                       | 630  | 400    | 630  |
| <b>Thermal nominal current<sup>(1)</sup></b>        | A                      | 500                       | 630  | 500    | 630  |
| connecting section                                  | mm <sup>2</sup>        | 240                       | 400  | 240    | 400  |
| <b>Nominal operating voltage</b>                    | V                      | 600                       | 600  | 600    | 600  |
| <b>Maximum operating voltage</b>                    | V                      | 700                       | 700  | 700    | 700  |
| DC_2 - DC_4 duty cycle                              | kW                     | 200                       | 250  | 200    | 250  |
| <b>Current switch-off rating L/R = 15 ms</b>        |                        |                           |      |        |      |
| in open air under 500 V                             | A                      | 6000                      | 8500 | 6000   | 8500 |
| <b>Safety perimeter for</b>                         |                        |                           |      |        |      |
| 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   |
| <b>Arcing time at current switch-off rating</b>     | ms                     | 40                        | 40   | 40     | 40   |
| <b>Magnetic blowout</b>                             |                        |                           |      |        |      |
| normal  | A                      | 400                       | 630  | 400    | 630  |
| <b>Current switch-on rating L/R = 15 ms</b>         | A                      | 6000                      | 8500 | 6000   | 8500 |
| <b>Control circuit</b>                              |                        |                           |      |        |      |
| standard voltages <sup>(3)</sup>                    | 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   |
| <b>Mechanical endurance</b>                         | millions of operations | 10                        | 10   | 10     | 10   |
| <b>Number maximum of instant auxiliary contacts</b> |                        | 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