# CBC Series

## with UL94V-0 polyamide insulating body

- UL94V-0
- reduced overall dimension
- patented "Easy bridge" system: double possibility to insert PTC multi-pole cross-connections, without the need of insulating protection
- mounting onto PR/3 type rails, according to IEC 60715 Std., "TH/35" type
- available in grey RAL 7042 and beige RAL 1001 colours
- **CESI 08 ATEX 061 U** Ex e ⟨Ex⟩ certificate
  I M2 / II 2 G D
  operating temperature range: –40 ÷ +80 °C
- **CoC IEC Ex N. CES 09.0002U** Ex e II





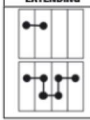


(*): 24 A factory wiring only
(**): 32 A factory wiring only

*The **/GR** tag indicates the grey colour version.*

*Values in brackets are referred to the Ex e application*

**PTC jumper configurations**

| SINGLE OR PARALLEL EXTENDING | POLE SKIPPING | ADJACENT WITHOUT BARRIER | ADJACENT WITH BARRIER | STAGGERED MODE | PARALLEL SKIPPING |
|---|---|---|---|---|---|
|  |  |  |  |  |  |

| Terminal block | Jumper | Insulation voltage in the above configurations (V) | | | | | |
|---|---|---|---|---|---|---|---|
| CBC.2 | PTC/2 | 630 (400) | 630 (400) | | 1000 (400) | 500 (320) | 500 (320) |
| CBC.4 | PTC/4 | 630 (320) | 500 (320) | | 800 (320) | 500 (320) | 500 (320) |
| CBC.6 | PTC/6 | 630 (320) | 630 (320) | | 800 (320) | 630 (250) | 630 (250) |

| | CBC.2/GR Cat. No. CBC02GR | CBC.4/GR Cat. No. CBC04GR | CBC.6/GR Cat. No. CBC06GR |
|---|---|---|---|
| **grey version** | | | |
| **beige version** | **CBC.2** Cat. No. **CBC02** | **CBC.4** Cat. No. **CBC04** | **CBC.6** Cat. No. **CBC06** |
| **(Ex)i version** | **CBC.2 (Ex)i** Cat. No. **CBI02** | **CBC.4 (Ex)i** Cat. No. **CBI04** | **CBC.6 (Ex)i** Cat. No. **CBI06** |
| **TECHNICAL CHARACTERISTICS** | | | |
| function / type | feed-through | feed-through | feed-through |
| rated cross-section (mm²) | 2,5 | 4 | 6 |
| connecting capacity | | | |
| flexible (mm²) | 0,2 ÷ 4 | 0,2 ÷ 6 | 0,2 ÷ 10 |
| rigid (mm²) | 0,2 ÷ 4 | 0,2 ÷ 6 | 0,2 ÷ 10 |
| max. flexible with ferrule (mm²)-ferrule type | 2,5 - WP25/14 | 4 - WP40/16 | 6 - WP60/20 |
| rated voltage / rated current / gauge conf. to IEC 60947-7-1 | 1000 V / 32 A (4 mm²) / A3 | 1000 V / 41 A (6 mm²) / A4 | 1000 V / 57 A (10 mm²) / A5 |
| rated voltage / rated current / AWG / tightening torque value UL | 600 V / 20 A (*) / 20-12 AWG / 0,4 Nm | 600 V / 30 A (**) / 20-10 AWG / 0,5 Nm | 600 V / 50 A / 20-8 AWG / 1,7 Nm |
| max current (*) | 27 A (2,5 mm²) / 37 A (4 mm²) | 38 A (4 mm²) / 45 A (6 mm²) | 53 A (6 mm²) / 64 A (10 mm²) |
| (Ex e) rated voltage ⊏⊐ / ⊐⊏ (V) | 500 | 500 | 500 |
| rated impulse withstand voltage / pollution degree | 12 KV / 3 | 12 KV / 3 | 12 KV / 3 |
| insulation stripping length (mm) | 9 | 10 | 10 |
| tightening torque value (test / max) (Nm) | 0,4 / 0,8 | 0,5 / 1,2 | 0,8 / 1,4 |
| height / width / thickness ⊐⊏ TH/35 7,5 mm | 52 / 44 / 5 | 52 / 44 / 6 | 52 / 44 / 8 |
| height / width / thickness ⊏⊐ TH/35 15 mm | 60 / 44 / 5 | 60 / 44 / 6 | 60 / 44 / 8 |
| **APPROVALS** | c UL us · KEMA KEUR · ⟨Ex⟩ · Enel Distribuzione DV 27/1 · UL | c UL us · KEMA KEUR · ⟨Ex⟩ · Enel Distribuzione DV 27/1 · UL | c UL us · KEMA KEUR · ⟨Ex⟩ · Enel Distribuzione DV 27/1 |

| ACCESSORIES | | Type | Cat. No. | Type | Cat. No. | Type | Cat. No. |
|---|---|---|---|---|---|---|---|
| End sections | grey | **CBC.2-10/PT/GR** | CB061GR | **CBC.2-10/PT/GR** | CB061GR | **CBC.2-10/PT/GR** | CB061GR |
| | beige | **CBC.2-10/PT** | CB061 | **CBC.2-10/PT** | CB061 | **CBC.2-10/PT** | CB061 |
| | blue | **CBC.2-10/PT (Ex)i** | CBI061 | **CBC.2-10/PT (Ex)i** | CBI061 | **CBC.2-10/PT (Ex)i** | CBI061 |
| Permanent cross connection (intrinsically IPXXB protected once mounted) | | **PTC/2/02** poles | PTC0202 | **PTC/4/02** poles | PTC0402 | **PTC/6/02** poles | PTC0602 |
| | | **PTC/2/03** poles | PTC0203 | **PTC/4/03** poles | PTC0403 | **PTC/6/03** poles | PTC0603 |
| | | **PTC/2/05** poles | PTC0205 | **PTC/4/05** poles | PTC0405 | **PTC/6/05** poles | PTC0605 |
| | | **PTC/2/10** poles | PTC0210 | **PTC/4/10** poles | PTC0410 | **PTC/6/10** poles | PTC0610 |
| | | **PTC/2/00** (50 poles) | PTC0200 | **PTC/4/00** (42 poles) | PTC0400 | **PTC/6/00** (31 poles) | PTC0600 |
| Rated current carrying capacity of jumper (same, Ex e version) (A) | | **24 / (21)** | | **32 / (25)** | | **41 / (35)** | |
| Cross-connection identification strip (100 mm) | green | **PTC/SP** | PTC0990 | **PTC/SP** | PTC0990 | **PTC/SP** | PTC0990 |
| Switchable cross connection | | - | | - | | - | |
| Multiple common bar | 250 mm | - | | - | | - | |
| Shunting screw and sleeve | | - | | - | | - | |
| Coloured partition | red, green, white | **DFU/4** | DU04.. | **DFU/4** | DU04.. | **DFU/4** | DU04.. |
| Cross connection barrier | red | **DFM/800 - DFM/900** | DF800-900 | **DFM/800 - DFM/900** | DF800-900 | **DFM/800 - DFM/900** | DF800-900 |
| Test plug socket | | - | | - | | - | |
| Test plug | | **SDC/5 - SDC/5P** | DC005-DC05P | **SDC/6 - SDC/6P** | DC006-DC06P | - | |
| Modular test plug | | **SDC/POL** | DCPOL | **SDC/POL** | DCPOL | - | |
| End section for modular test plug | | - | | - | | - | |
| Numbering strip | | **CNU/8/51** | NU0851 | **CNU/8/61** | NU0861 | - | |
| Warning plate | on adjacent terminal blocks | **PRP/7/G** (100 mm) | PRP070G | **PRP/7/G** (100 mm) | PRP070G | **PRP/7/G** (100 mm) | PRP070G |
| | | - | | - | | - | |
| Cover for cross-connection | | - | | - | | - | |
| Marking tag | printed or blank | **CNU/8/51** | NU0851 | **CNU/8/51** | NU0851 | **CNU/8/51** | NU0851 |
| End bracket | | **BTU** for PR/DIN and PR/3 | BT005 | **BTU** for PR/DIN and PR/3 | BT005 | **BTU** for PR/DIN and PR/3 | BT005 |
| | | **BTO** for PR/3 only | BT007 | **BTO** for PR/3 only | BT007 | **BTO** for PR/3 only | BT007 |
| | | **BT/3** for PR/3 only | BT003 | **BT/3** for PR/3 only | BT003 | **BT/3** for PR/3 only | BT003 |
| Mounting rail according to IEC 60715 Std. | ⊏⊐ | - | | - | | - | |
| | ⊐⊏ | **PR/3/AC** for PR/DIN and PR/3 | PR003 | **PR/3/AC** for PR/DIN and PR/3 | PR003 | **PR/3/AC** for PR/DIN and PR/3 | PR003 |
| | | **PR/3/AS** same with slots | PR005 | **PR/3/AS** same with slots | PR005 | **PR/3/AS** same with slots | PR005 |



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