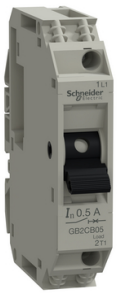
# Product data sheet

Specifications



## Circuit breaker, TeSys GB2, 1P, 0.5A, Icu 50kA at 240V, Thermal magnetic, DIN rail mounted

GB2CB05

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product name** | TeSys GB2 |
| **Device short name** | GB2 |
| **Product or component type** | Circuit breaker |
| **Device application** | Control |
| **Poles description** | 1P |
| **Network type** | AC/DC |
| **Utilisation category** | Category A conforming to IEC 60947-2<br>DC-12 conforming to IEC 60947-5-1<br>DC-13 conforming to IEC 60947-5-1 |
| **Network frequency** | 50/60 Hz conforming to IEC 60947-2 |
| **Breaking capacity** | 10 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Ics] rated service short-circuit breaking capacity** | 25 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| **Trip unit technology** | Thermal-magnetic |
| **Magnetic tripping current** | 6.6 A |

## Complementary

| | |
|---|---|
| **Mounting mode** | By clips |
| **Mounting support** | Plate<br>Rail |
| **Mounting position** | Horizontal<br>Vertical |
| **Control type** | Toggle |
| **[In] rated current** | 0.5 A |
| **[Ue] rated operational voltage** | 250 V AC 50/60 Hz conforming to IEC 60947-2<br>277 V AC 60 Hz conforming to CSA C22.2 No 235<br>277 V AC 60 Hz conforming to UL 1077<br>48 V DC |
| **[Uimp] rated impulse withstand voltage** | 4 kV conforming to IEC 60947-2 |
| **Power dissipation per pole** | 2 W |
| **Mechanical durability** | 8000 cycles |
| **Electrical durability** | 8000 cycles |
| **Connections - terminals** | Connector 1 cable(s) 0.75…6 mm²solid without cable end<br>Connector 2 cable(s) 0.75…4 mm²solid without cable end<br>Connector 1 cable(s) 0.75…4 mm²flexible with cable end<br>Connector 2 cable(s) 0.75…2.5 mm²flexible with cable end |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Tightening torque** | 1.2 N.m on connector |
| **Mechanical robustness** | Shocks: 22 Gn for 20 ms conforming to IEC 60068-2-27<br>Vibrations: 5 Gn, 5...110 Hz conforming to IEC 60068-2-6 |
| **Quantity per set** | Set of 6 |
| **9 mm pitches** | 2 |
| **Height** | 74 mm |
| **Width** | 15 mm |
| **Depth** | 67 mm |

## Environment

| | |
|---|---|
| **Standards** | EN/IEC 60947-1<br>EN/IEC 60947-2<br>CSA C22.2 No 235<br>UL 1077 |
| **Product certifications** | UL<br>CSA |
| **Protective treatment** | TC |
| **IP degree of protection** | IP20 conforming to IEC 60529 |
| **Ambient air temperature for operation** | -20…60 °C |
| **Ambient air temperature for storage** | -40…80 °C |
| **Fire resistance** | 960 °C conforming to IEC 60695-2-1 |
| **Operating altitude** | 3000 m |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 8.000 cm |
| **Package 1 Width** | 10.000 cm |
| **Package 1 Length** | 8.000 cm |
| **Package 1 Weight** | 50.000 g |
| **Unit Type of Package 2** | BB1 |
| **Number of Units in Package 2** | 6 |
| **Package 2 Height** | 8.000 cm |
| **Package 2 Width** | 10.000 cm |
| **Package 2 Length** | 8.000 cm |
| **Package 2 Weight** | 321.000 g |
| **Unit Type of Package 3** | S02 |
| **Number of Units in Package 3** | 72 |
| **Package 3 Height** | 15.000 cm |
| **Package 3 Width** | 30.000 cm |
| **Package 3 Length** | 40.000 cm |
| **Package 3 Weight** | 4.148 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **3 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **0.3 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **2 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.1 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.** |
| Halogen-free status | **Halogen free plastic parts product** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **36** |
| End of life manual availability | **No need of specific recycling operations** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |