

## GB2CB08

TeSys GB2 - thermal-magnetic circuit breaker - 1P -  
3 A -  $I_d = 40$  A



### 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                                   | $I_{cu} = 1$ kA at 48 V DC conforming to IEC 60947-2<br>$I_{cu} = 10$ kA at 110 V AC 50/60 Hz conforming to IEC 60947-2<br>$I_{cu} = 1.5$ kA at 24 V DC conforming to IEC 60947-2<br>$I_{cu} = 3$ kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 50 % at 110 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                          |
| Trip unit technology                                | Thermal-magnetic                                                                                                                                                                                                                                        |
| Magnetic tripping current                           | 40 A                                                                                                                                                                                                                                                    |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting mode                          | By clips                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting support                       | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting position                      | Horizontal<br>Vertical                                                                                                                                                                                                                                                                                                                                                                     |
| Control type                           | Toggle                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current                     | 3 A                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ue] rated operational voltage         | 48 V DC<br>250 V AC 50/60 Hz conforming to IEC 60947-2<br>277 V AC 50/60 Hz conforming to UL 1077<br>277 V AC 50/60 Hz conforming to CSA C22.2 No 14                                                                                                                                                                                                                                       |
| [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 mm <sup>2</sup> - cable stiffness : solid - without cable end<br>Connector 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness : solid - without cable end<br>Connector 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness : flexible - with cable end<br>Connector 2 cable(s) 0.75...2.5 mm <sup>2</sup> - cable stiffness : flexible - with cable end |
| 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                                                                                                                                                                                                                                                                                                                                                                                      |

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|       |       |
|-------|-------|
| Depth | 67 mm |
|-------|-------|

## Environment

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| standards                             | EN 60947-1<br>EN 60947-2<br>IEC 60947-1<br>IEC 60947-2 |
| product certifications                | CSA<br>NEMKO<br>UL                                     |
| 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                                                 |

## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0627 - Schneider Electric declaration of conformity |
| REACH                            | Reference contains SVHC above the threshold                           |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Need no specific recycling operations                                 |