



Miniature circuit breaker 400 V 6kA, 2-pole, C, 30 A

| Model   |                                 |
|---|---------------------------------|
| product brand name  | SENTRON                         |
| product designation   | Miniature circuit breaker       |
| General technical data  |                                 |
| number of poles   | 2                               |
| design of pole  | 2P                              |
| tripping characteristic class   | C                               |
| mechanical service life (operating cycles) typical                                  | 10 000                          |
| overvoltage category  | 3                               |
| degree of pollution   | 3                               |
| Voltage   |                                 |
| type of voltage of the operating voltage  | AC                              |
| insulation voltage (U <sub>i</sub> )  |                                 |
| • with single-phase operation at AC rated value                                     | 440 V                           |
| • with multi-phase operation at AC rated value                                      | 440 V                           |
| • operational current   |                                 |
| — at 40 °C rated value  | 28.56 A                         |
| — at 50 °C rated value  | 27.06 A                         |
| — at 55 °C rated value  | 26.25 A                         |
| • operational current at AC rated value   | 30 A                            |
| Supply voltage  |                                 |
| supply voltage  |                                 |
| • at AC   | 400 V                           |
| • at DC rated value   | 60 V                            |
| value range of the supply voltage frequency   | 50/60 Hz                        |
| operating voltage at DC rated value maximum   | 72 V                            |
| Protection class  |                                 |
| protection class IP   | IP20, with connected conductors |
| Breaking Capacity   |                                 |
| switching capacity current  |                                 |
| • at DC according to IEC 60947-2 rated value  | 15 kA                           |
| • according to EN 60898 rated value   | 6 kA                            |
| • according to IEC 60947-2 rated value  | 15 kA                           |
| energy limitation class   | 3                               |
| Dissipation   |                                 |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 2.3 W                           |
| suitability for operation   | Infrastructure / Industry       |

| Product details  |  |
|--|--|
| product feature touch protection   | Yes  |
| product component  |  |
| • combined terminal top  | Yes  |
| • combined terminal bottom   | Yes  |
| • neutral conductor switching  | No   |
| product feature properties for main switches in accordance with EN 60204-1   | Yes  |
| product feature halogen-free   | Yes  |
| product feature sealable   | Yes  |
| product feature silicon-free   | Yes  |
| product extension installable supplementary devices                          | Yes  |
| Product function   |  |
| set values setting current (Ii) for I-tripping                               | 6,5  |
| reference value setting current (Ii) for I-tripping                          | x I <sub>n</sub>                                     |
| Short circuit  |  |
| short-circuit current breaking capacity (I <sub>cn</sub> )                   |  |
| • at AC according to UL 1077 and CSA C22.2 No.235                            | 5 kA   |
| Connections  |  |
| connectable conductor cross-section solid                                    |  |
| • minimum  | 0.75 mm <sup>2</sup>                                 |
| • maximum  | 35 mm <sup>2</sup>                                   |
| connectable conductor cross-section stranded                                 |  |
| • minimum  | 0.75 mm <sup>2</sup>                                 |
| • maximum  | 35 mm <sup>2</sup>                                   |
| connectable conductor cross-section finely stranded with core end processing |  |
| • minimum  | 0.75 mm <sup>2</sup>                                 |
| • maximum  | 25 mm <sup>2</sup>                                   |
| AWG number as coded connectable conductor cross section                      |  |
| • minimum  | 18   |
| • maximum  | 4  |
| tightening torque [lbf·in] with screw-type terminals                         |  |
| • minimum  | 22 lbf·in  |
| • maximum  | 31 lbf·in  |
| tightening torque with screw-type terminals                                  |  |
| • minimum  | 2.5 N·m  |
| • maximum  | 3.5 N·m  |
| position of power supply cord  | Any  |
| Mechanical Design  |  |
| height   | 90 mm  |
| width  | 36 mm  |
| depth  | 76 mm  |
| installation depth   | 70 mm  |
| number of modular width units  | 2  |
| fastening method   | DIN rail   |
| mounting position  | any  |
| Net Weight   | 316 g  |
| Environmental conditions   |  |
| influence of the surrounding temperature                                     | max. 95% RH up to 55°C                               |
| standard   | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077          |
| vibration resistance according to IEC 60068-2-6                              | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz |
| ambient temperature during operation   |  |
| • minimum  | -25 °C   |
| • maximum  | 55 °C  |
| ambient temperature during storage   |  |
| • minimum  | -40 °C   |
| • maximum  | 75 °C  |

|   |   |
|---|---|
| number of test cycles for environmental testing according to IEC 60068-2-30 | 6 |
|---|---|

### Environmental footprint

|  |          |
|--|----------|
| Environmental Product Declaration(EPD)                 | Yes      |
| global warming potential [CO2 eq] total                | 8.93 kg  |
| global warming potential [CO2 eq] during manufacturing | 1.08 kg  |
| global warming potential [CO2 eq] during operation     | 7.83 kg  |
| global warming potential [CO2 eq] after end of life    | 0.028 kg |

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



EG-Konf.



UR



VDE

|                          |     |                   |                      |
|--------------------------|-----|-------------------|----------------------|
| General Product Approval | EMV | Test Certificates | Maritime application |
|--------------------------|-----|-------------------|----------------------|

[Miscellaneous](#)



RCM

[Miscellaneous](#)



ABS

|                      |       |             |
|----------------------|-------|-------------|
| Maritime application | other | Environment |
|----------------------|-------|-------------|



LRS



[Confirmation](#)



### Environment

[Environmental Confirmations](#)

[Environmental Confirmations](#)

### Further information

#### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

#### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

#### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6230-7>

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6230-7>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6230-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6230-7)

#### CAx-Online-Generator

<https://www.siemens.com/cax>

#### Tender specifications

<https://www.siemens.com/specifications>



# CB



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