



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 40 A

| Model                                                                               |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
| product brand name                                                                  | SENTRON                              |
| product designation                                                                 | Miniature circuit breaker            |
| General technical data                                                              |                                      |
| number of poles                                                                     | 1                                    |
| design of pole                                                                      | 1P                                   |
| tripping characteristic class                                                       | C                                    |
| mechanical service life (operating cycles)                                          |                                      |
| • typical                                                                           | 10 000                               |
| overvoltage category                                                                | III                                  |
| degree of pollution                                                                 | 2                                    |
| Voltage                                                                             |                                      |
| type of voltage of the operating voltage                                            | AC                                   |
| <b>insulation voltage (Ui)</b>                                                      |                                      |
| • with single-phase operation at AC rated value                                     | 250 V                                |
| • with multi-phase operation at AC rated value                                      | 440 V                                |
| operational current                                                                 |                                      |
| • at 30 °C rated value                                                              | 40 A                                 |
| • at 40 °C rated value                                                              | 37.57 A                              |
| • at 55 °C rated value                                                              | 33.61 A                              |
| • at AC rated value                                                                 | 40 A                                 |
| Supply voltage                                                                      |                                      |
| supply voltage at AC                                                                | 400 V                                |
| value range of the supply voltage frequency                                         | 50/60 Hz                             |
| operating voltage                                                                   |                                      |
| • with multi-phase operation at AC maximum                                          | 440 V                                |
| • at DC rated value maximum                                                         | 72 V                                 |
| Protection class                                                                    |                                      |
| protection class IP                                                                 | IP20, with connected conductors      |
| Breaking Capacity                                                                   |                                      |
| switching capacity current                                                          |                                      |
| • according to EN 60898 rated value                                                 | 6 kA                                 |
| • according to IEC 60947-2 rated value                                              | 6 kA                                 |
| energy limitation class                                                             | 3                                    |
| Dissipation                                                                         |                                      |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 3.3 W                                |
| suitability for operation                                                           | Residential buildings/infrastructure |
| Product details                                                                     |                                      |
| product feature                                                                     |                                      |

|                                                     |     |
|-----------------------------------------------------|-----|
| • halogen-free                                      | Yes |
| • sealable                                          | Yes |
| • silicon-free                                      | Yes |
| product extension installable supplementary devices | Yes |

#### Connections

|                                                                              |                      |
|------------------------------------------------------------------------------|----------------------|
| connectable conductor cross-section solid                                    |                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup> |
| • maximum                                                                    | 25 mm <sup>2</sup>   |
| connectable conductor cross-section stranded                                 |                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup> |
| • maximum                                                                    | 25 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>   |
| tightening torque with screw-type terminals                                  |                      |
| • minimum                                                                    | 2.5 N·m              |
| • maximum                                                                    | 3 N·m                |

#### Mechanical Design

|                               |       |
|-------------------------------|-------|
| height                        | 90 mm |
| width                         | 18 mm |
| depth                         | 76 mm |
| installation depth            | 70 mm |
| number of modular width units | 1     |
| mounting position             | any   |
| net weight                    | 145 g |

#### Environmental conditions

|                                      |        |
|--------------------------------------|--------|
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 45 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -40 °C |
| • maximum                            | 75 °C  |

#### Environmental footprint

|                                                        |           |
|--------------------------------------------------------|-----------|
| Environmental Product Declaration (EPD)                | Yes       |
| Global Warming Potential [CO2 eq] total                | 28.2 kg   |
| Global Warming Potential [CO2 eq] during manufacturing | 0.718 kg  |
| Global Warming Potential [CO2 eq] during operation     | 27.5 kg   |
| Global Warming Potential [CO2 eq] after end of life    | -0.057 kg |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



| other | Environment |
|-------|-------------|
|-------|-------------|

[Miscellaneous](#)

[Confirmation](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### Further information

Information on the packaging

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

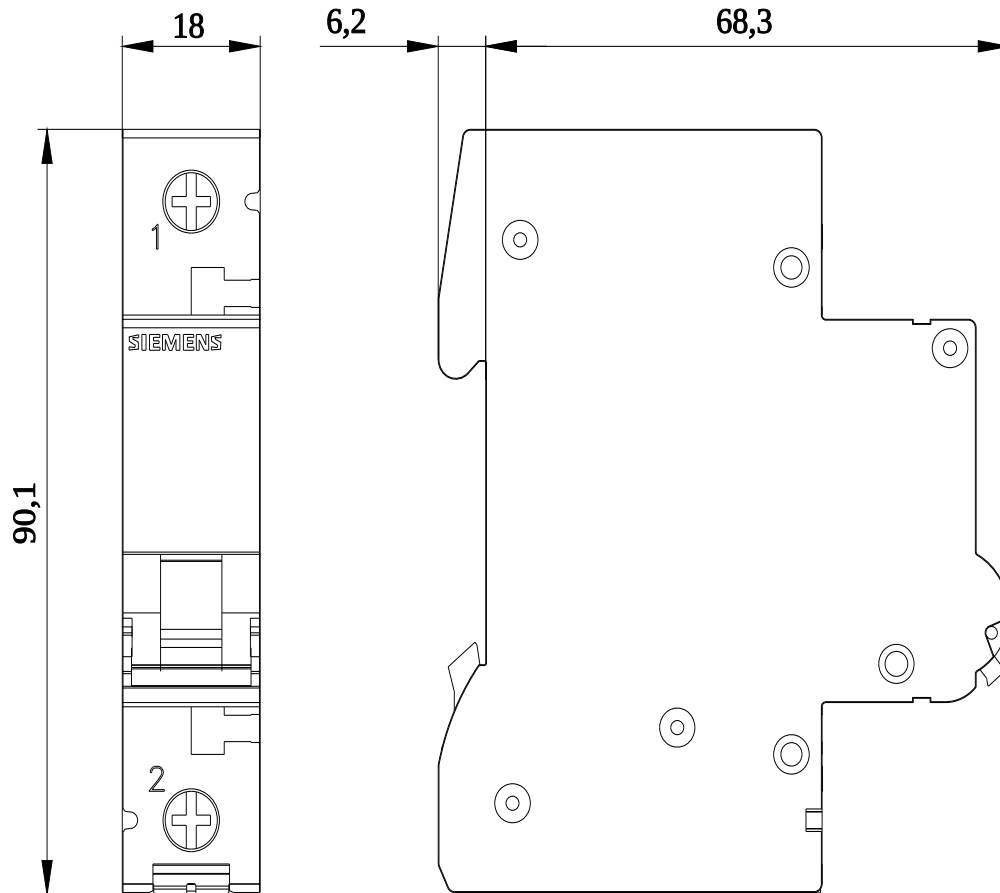
Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6140-7>

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





---

last modified:

2/16/2024 

