



Figure similar

Miniature circuit breaker 400 V 10kA, 2-pole, C, 100 A, D=70 mm

| Model                                                                               |                                                                                        |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| product brand name                                                                  | SETRON                                                                                 |
| 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 (Ui)                                                             |                                                                                        |
| • at AC rated value                                                                 | 440 V                                                                                  |
| • with multi-phase operation at AC rated value                                      | 440 V                                                                                  |
| operational current                                                                 |                                                                                        |
| • at 30 °C rated value                                                              | 100 A                                                                                  |
| • at 40 °C rated value                                                              | 95 A                                                                                   |
| • at 50 °C rated value                                                              | 89.5 A                                                                                 |
| • at 60 °C rated value                                                              | 84 A                                                                                   |
| • at AC rated value                                                                 | 100 A                                                                                  |
| Supply voltage                                                                      |                                                                                        |
| supply voltage at AC                                                                | 400 V                                                                                  |
| value range of the supply voltage frequency                                         | 50/60 Hz                                                                               |
| Protection class                                                                    |                                                                                        |
| protection class IP                                                                 | IP20 with connected conductors, IP40 in the area of the handle with distribution cover |
| Breaking Capacity                                                                   |                                                                                        |
| switching capacity current                                                          |                                                                                        |
| • according to EN 60898 rated value                                                 | 10 kA                                                                                  |
| Dissipation                                                                         |                                                                                        |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 8 W                                                                                    |
| suitability for operation                                                           | Infrastructure / Industry                                                              |
| Product details                                                                     |                                                                                        |
| product feature touch protection                                                    | Yes                                                                                    |
| product component                                                                   |                                                                                        |
| • tunnel terminals top                                                              | Yes                                                                                    |
| • tunnel terminals bottom                                                           | Yes                                                                                    |

|                                                              |     |
|--------------------------------------------------------------|-----|
| <b>product feature</b>                                       |     |
| • properties for main switches in accordance with EN 60204-1 | Yes |
| • halogen-free                                               | Yes |
| • sealable                                                   | Yes |
| • silicon-free                                               | Yes |
| product extension installable supplementary devices          | Yes |

#### Connections

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
| <b>connectable conductor cross-section solid</b>                                    |                    |
| • minimum                                                                           | 25 mm <sup>2</sup> |
| • maximum                                                                           | 50 mm <sup>2</sup> |
| <b>connectable conductor cross-section stranded</b>                                 |                    |
| • minimum                                                                           | 25 mm <sup>2</sup> |
| • maximum                                                                           | 50 mm <sup>2</sup> |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |                    |
| • minimum                                                                           | 25 mm <sup>2</sup> |
| • maximum                                                                           | 35 mm <sup>2</sup> |
| <b>AWG number as coded connectable conductor cross section</b>                      |                    |
| • minimum                                                                           | 3                  |
| • maximum                                                                           | 1                  |
| <b>tightening torque [lbf·in] with screw-type terminals</b>                         |                    |
| • minimum                                                                           | 22.1 lbf·in        |
| • maximum                                                                           | 31 lbf·in          |
| <b>tightening torque with screw-type terminals</b>                                  |                    |
| • minimum                                                                           | 2.5 N·m            |
| • maximum                                                                           | 3.5 N·m            |
| position of power supply cord                                                       | Any                |

#### Mechanical Design

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>height</b>                        | 90 mm                     |
| <b>width</b>                         | 54 mm                     |
| <b>depth</b>                         | 76 mm                     |
| <b>installation depth</b>            | 70 mm                     |
| <b>number of modular width units</b> | 3                         |
| <b>fastening method</b>              | DIN rail and screw fixing |
| <b>mounting position</b>             | any                       |
| <b>net weight</b>                    | 520 g                     |

#### Environmental conditions

|                                                 |                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------|
| <b>influence of the surrounding temperature</b> | Max. 95% rel. humidity                                                  |
| shock resistance according to IEC 60068-2-27    | 150m/s <sup>2</sup> at 11ms half-sine                                   |
| vibration resistance according to IEC 60068-2-6 | 50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| <b>ambient temperature during storage</b>       |                                                                         |
| • minimum                                       | -40 °C                                                                  |
| • maximum                                       | 75 °C                                                                   |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



##### General Product Approval

##### Marine / Shipping

##### other



[Confirmation](#)

[Miscellaneous](#)

##### Railway

##### Dangerous goods

##### Environment

#### 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=5SP4291-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP4291-7>

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

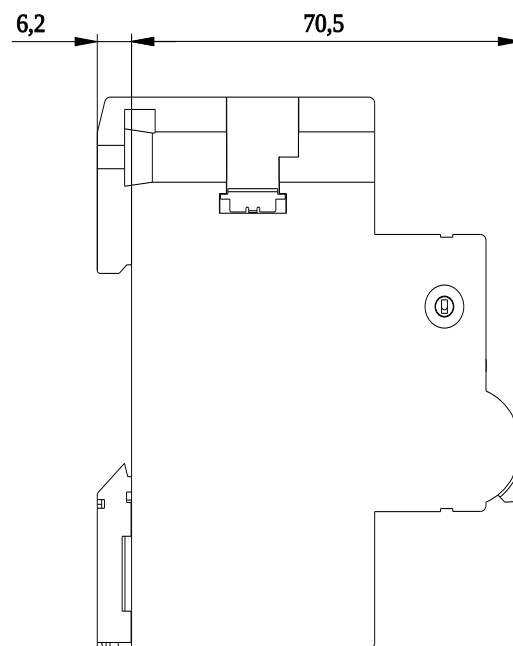
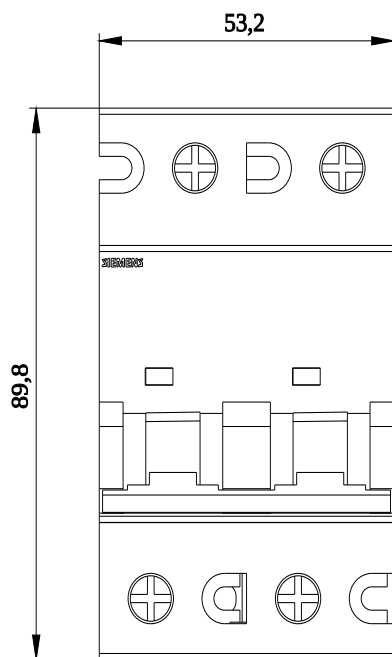
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4291-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4291-7)

**CAX-Online-Generator**

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

**Tender specifications**

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



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