



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

Figure similar

| 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 (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   |
| • operational current 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  |
| energy limitation class   | 3  |
| 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  |

|   |     |
|---|-----|
| <b>product component</b>  |     |
| • tunnel terminals top  | Yes |
| • tunnel terminals bottom   | Yes |
| <b>product feature properties for main switches in accordance with EN 60204-1</b> | Yes |
| <b>product feature halogen-free</b>   | Yes |
| <b>product feature sealable</b>   | Yes |
| <b>product feature silicon-free</b>   | Yes |
| <b>product extension installable supplementary devices</b>                        | 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            |
| <b>position of power supply cord</b>  | 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 |
| <b>mounting position</b>             | any      |
| <b>Net Weight</b>                    | 520 g    |

### Environmental conditions

|  |   |
|--|---|
| <b>influence of the surrounding temperature</b>        | Max. 95% rel. humidity  |
| <b>shock resistance according to IEC 60068-2-27</b>    | 150m/s <sup>2</sup> at 11ms half-sine                                   |
| <b>vibration resistance according to IEC 60068-2-6</b> | 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



|                                 |                             |              |
|---------------------------------|-----------------------------|--------------|
| <b>General Product Approval</b> | <b>Maritime application</b> | <b>other</b> |
|---------------------------------|-----------------------------|--------------|



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**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=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, ...)

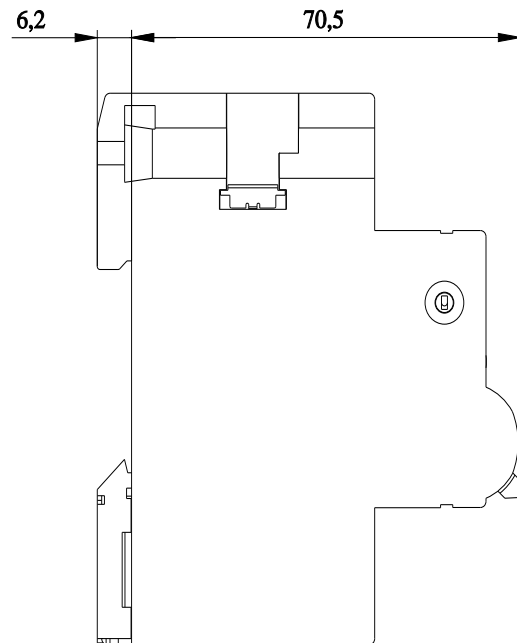
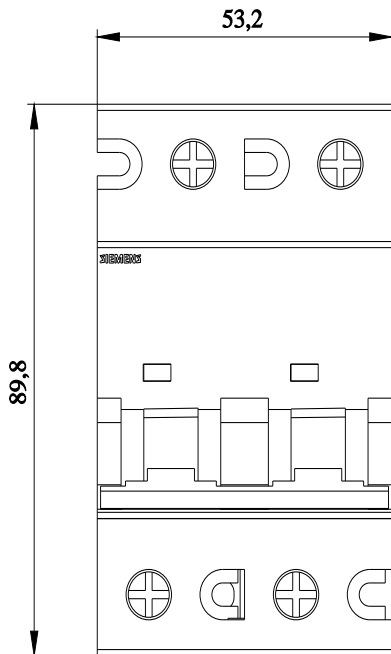
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4291-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4291-7)

CAX-Online-Generator

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

Tender specifications

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



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