



Figure similar

Circuit breaker 10kA, 1-pole, D, 16A according to UL 489-277V

| Model                                                                                                                                                                                                                                                                                                                   |                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                                      | SENTRON                                                              |
| product designation                                                                                                                                                                                                                                                                                                     | Miniature circuit breakers                                           |
| design of the product                                                                                                                                                                                                                                                                                                   | Miniature circuit-breaker 5SJ4                                       |
| General technical data                                                                                                                                                                                                                                                                                                  |                                                                      |
| number of poles                                                                                                                                                                                                                                                                                                         | 1                                                                    |
| design of pole                                                                                                                                                                                                                                                                                                          | 1P                                                                   |
| tripping characteristic class                                                                                                                                                                                                                                                                                           | D                                                                    |
| mechanical service life (operating cycles) typical                                                                                                                                                                                                                                                                      | 10 000                                                               |
| installation environment regarding EMC                                                                                                                                                                                                                                                                                  | Suitable for environment B (immunity to interference not applicable) |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750                                                                                                                                                                                                                              | F                                                                    |
| overvoltage category                                                                                                                                                                                                                                                                                                    | 3                                                                    |
| degree of pollution                                                                                                                                                                                                                                                                                                     | 3                                                                    |
| Voltage                                                                                                                                                                                                                                                                                                                 |                                                                      |
| insulation voltage (Ui) at AC rated value                                                                                                                                                                                                                                                                               | 440 V                                                                |
| <ul style="list-style-type: none"> <li>operational current <ul style="list-style-type: none"> <li>at 30 °C rated value</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> <li>at 60 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul>    | 16 A<br>16 A<br>15 A<br>14.5 A<br>14.1 A<br>16 A                     |
| Supply voltage                                                                                                                                                                                                                                                                                                          |                                                                      |
| supply voltage <ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>                                                                                                                                                                                                                       | 400 V<br>60 V                                                        |
| value range of the supply voltage frequency                                                                                                                                                                                                                                                                             | 50/60 Hz                                                             |
| operating voltage <ul style="list-style-type: none"> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>at DC rated value maximum</li> <li>at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul> | 277 V<br>60 V<br>60 V<br>125 V                                       |
| supply voltage frequency rated value                                                                                                                                                                                                                                                                                    | 50 Hz                                                                |
| Protection class                                                                                                                                                                                                                                                                                                        |                                                                      |

|                                                                                                            |                                                                          |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>protection class IP</b>                                                                                 | IP 0 in the handle range                                                 |
| <b>Breaking Capacity</b>                                                                                   |                                                                          |
| <b>switching capacity current</b>                                                                          |                                                                          |
| • according to EN 60898 rated value                                                                        | 10 kA                                                                    |
| • according to IEC 60947-2 rated value                                                                     | 15 kA                                                                    |
| <b>Dissipation</b>                                                                                         |                                                                          |
| power loss [W] for rated value of the current at AC in hot operating state per pole                        | 2.1 W                                                                    |
| <b>Main circuit</b>                                                                                        |                                                                          |
| <b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>                             | 480/277                                                                  |
| <b>suitability for operation</b>                                                                           | Infrastructure / Industry                                                |
| <b>Product details</b>                                                                                     |                                                                          |
| <b>product feature touch protection</b>                                                                    | Yes                                                                      |
| <b>product component</b>                                                                                   |                                                                          |
| • tunnel terminals top                                                                                     | No                                                                       |
| • tunnel terminals bottom                                                                                  | No                                                                       |
| • combined terminal top                                                                                    | Yes                                                                      |
| • combined terminal bottom                                                                                 | Yes                                                                      |
| • neutral conductor switching                                                                              | No                                                                       |
| <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                                                                      |
| <b>Product function</b>                                                                                    |                                                                          |
| <b>set values setting current (Ii) for I-tripping</b>                                                      | 14                                                                       |
| <b>reference value setting current (Ii) for I-tripping</b>                                                 | x I <sub>n</sub>                                                         |
| product function note                                                                                      | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in                |
| <b>Short circuit</b>                                                                                       |                                                                          |
| short-circuit current breaking capacity (I <sub>cn</sub> ) at AC according to UL 1077 and CSA C22.2 No.235 | 10 kA                                                                    |
| <b>Connections</b>                                                                                         |                                                                          |
| <b>connectable conductor cross-section finely stranded with core end processing</b>                        |                                                                          |
| • minimum                                                                                                  | 0.75 mm <sup>2</sup>                                                     |
| • maximum                                                                                                  | 25 mm <sup>2</sup>                                                       |
| tightening torque with screw-type terminals maximum                                                        | 3.5 N·m                                                                  |
| <b>position of power supply cord</b>                                                                       | Any                                                                      |
| <b>Mechanical Design</b>                                                                                   |                                                                          |
| <b>height</b>                                                                                              | 121 mm                                                                   |
| <b>width</b>                                                                                               | 18 mm                                                                    |
| <b>depth</b>                                                                                               | 70 mm                                                                    |
| <b>installation depth</b>                                                                                  | 70 mm                                                                    |
| <b>number of modular width units</b>                                                                       | 1                                                                        |
| <b>fastening method</b>                                                                                    | on standard mounting rail                                                |
| <b>mounting position</b>                                                                                   | any                                                                      |
| <b>Net Weight</b>                                                                                          | 173 g                                                                    |
| <b>Environmental conditions</b>                                                                            |                                                                          |
| <b>standard</b>                                                                                            | IEC / EN 60947-2 / UL 489                                                |
| <b>vibration resistance</b>                                                                                | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| <b>vibration resistance according to IEC 60068-2-6</b>                                                     | ±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz                 |
| <b>ambient temperature during operation</b>                                                                |                                                                          |
| • minimum                                                                                                  | -25 °C                                                                   |
| • maximum                                                                                                  | 55 °C                                                                    |
| <b>ambient temperature during operation</b>                                                                | max. 95% humidity                                                        |
| <b>ambient temperature during storage</b>                                                                  |                                                                          |
| • minimum                                                                                                  | -40 °C                                                                   |
| • maximum                                                                                                  | 75 °C                                                                    |
| <b>Approvals Certificates</b>                                                                              |                                                                          |

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

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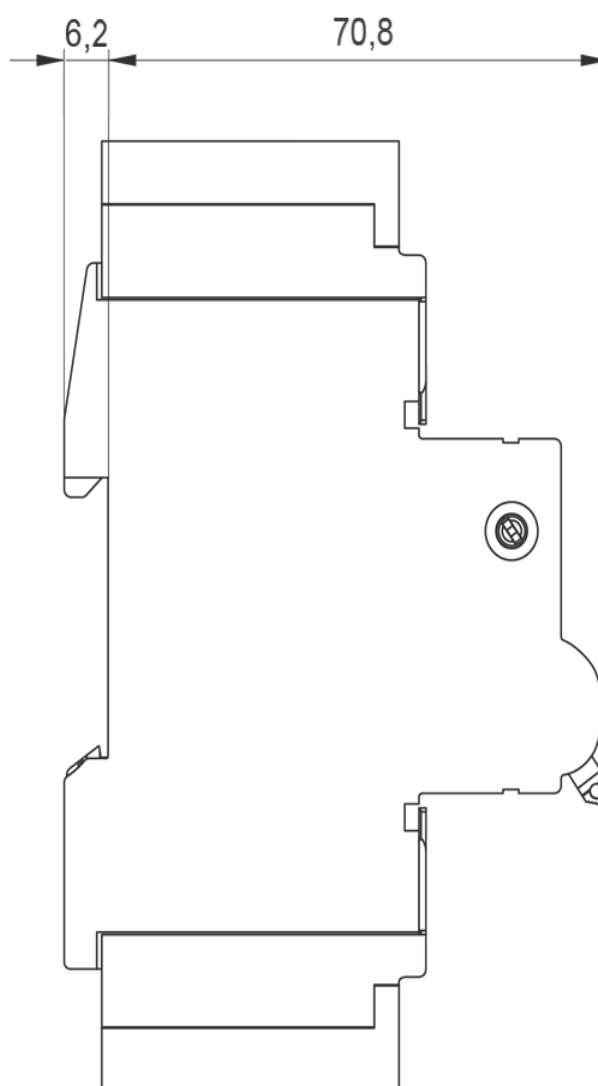
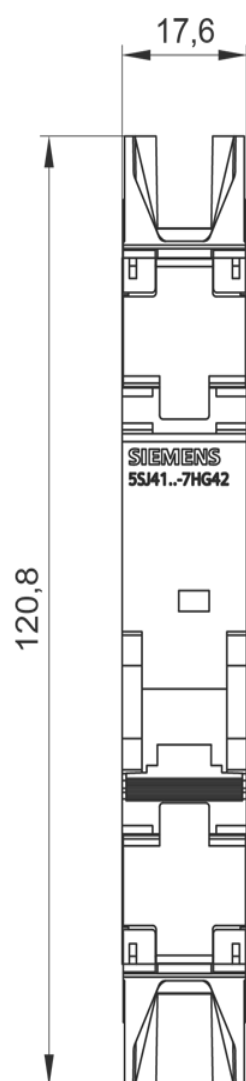
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|       |
|-------|
| other |
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|---------------------|
| Further information |
|---------------------|

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=5SJ4116-8HG42>  
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4116-8HG42>  
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4116-8HG42](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4116-8HG42)  
 CAx-Online-Generator  
<https://www.siemens.com/cax>  
 Tender specifications  
<https://www.siemens.com/specifications>  
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