## SIEMENS

## Data sheet

## 5SY7208-7

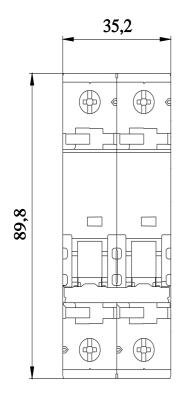


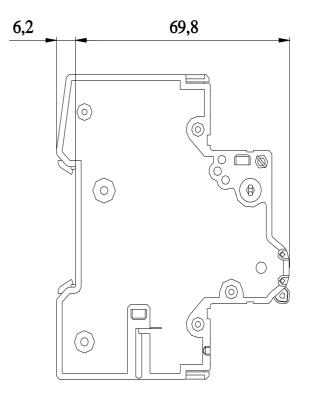
Miniature circuit breaker 400 V 15kA, 2-pole, C, 8A, D=70 mm

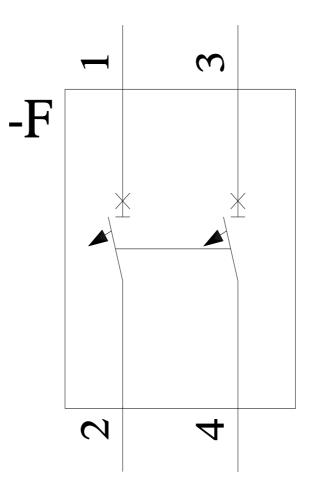
| Model  |                                   |  |  |
|--|-----------------------------------|--|--|
| product brand name   | SENTRON                           |  |  |
| product designation  | Miniature circuit breaker         |  |  |
| General technical data   |                                   |  |  |
| number of poles  | 2                                 |  |  |
| design of pole   | 2P                                |  |  |
| tripping characteristic class  | C                                 |  |  |
| mechanical service life (operating cycles) typical                                     | 10 000                            |  |  |
| overvoltage category   | III                               |  |  |
| degree of pollution  | 3                                 |  |  |
| Voltage  |                                   |  |  |
| type of voltage of the operating voltage   | AC                                |  |  |
| insulation voltage (Ui)  |                                   |  |  |
| <ul> <li>with single-phase operation at AC rated value</li> </ul>                      | 440 V                             |  |  |
| <ul> <li>with multi-phase operation at AC rated value</li> </ul>                       | 440 V                             |  |  |
| supply voltage with single-phase operation at AC rated value                           | 230 V                             |  |  |
| Supply voltage   |                                   |  |  |
| supply voltage   |                                   |  |  |
| <ul> <li>at AC rated value</li> </ul>  | 400 V                             |  |  |
| <ul> <li>at DC rated value</li> </ul>  | 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   |  |  |
| Switching capacity   |                                   |  |  |
| switching capacity current   |                                   |  |  |
| <ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>                         | 15 kA                             |  |  |
| <ul> <li>according to EN 60898 rated value</li> </ul>                                  | 15 kA                             |  |  |
| <ul> <li>according to IEC 60947-2 rated value</li> </ul>                               | 30 kA                             |  |  |
| energy limitation class  | 3                                 |  |  |
| Dissipation  |                                   |  |  |
| power loss [W] for rated value of the current at AC in hot<br>operating state per pole | 0.9 W                             |  |  |
| suitability for operation  | Mechanical engineering / industry |  |  |
| Product details  |                                   |  |  |
| product component  |                                   |  |  |
| <ul> <li>combined terminal top</li> </ul>  | Yes                               |  |  |
| <ul> <li>combined terminal bottom</li> </ul>   | Yes                               |  |  |
| <ul> <li>neutral conductor switching</li> </ul>  | No                                |  |  |
| product feature  |                                   |  |  |

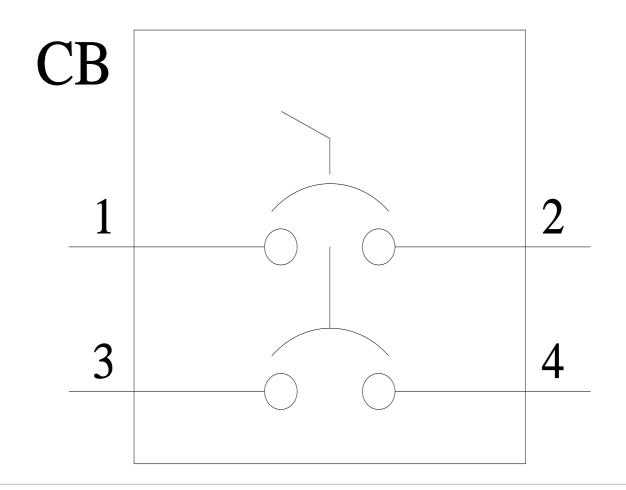
| <ul> <li>properties for main switches in accordance with EN<br/>60204-1</li> </ul> | Yes  |                      |  |  |  |
|--|--|----------------------|--|--|--|
| halogen-free   | Yes  |                      |  |  |  |
| • sealable   | Yes  |                      |  |  |  |
| • silicon-free   | Yes  |                      |  |  |  |
| product extension installable supplementary devices                                | Yes  |                      |  |  |  |
| Short circuit  |  |                      |  |  |  |
| short-circuit current breaking capacity (Icn)                                      |  |                      |  |  |  |
| at AC according to UL 1077 and CSA C22.2 No.235                                    | 5 kA   |                      |  |  |  |
| Connections  |  |                      |  |  |  |
| connectable conductor cross-section solid  |  |                      |  |  |  |
| minimum  | 0.75 mm²   |                      |  |  |  |
| • maximum  | 35 mm <sup>2</sup>                                   |                      |  |  |  |
| connectable conductor cross-section stranded                                       |  |                      |  |  |  |
| minimum  | 0.75 mm²   |                      |  |  |  |
| • maximum  | 35 mm <sup>2</sup>                                   |                      |  |  |  |
| connectable conductor cross-section finely stranded with core                      |  |                      |  |  |  |
| end processing   |  |                      |  |  |  |
| • minimum  | 0.75 mm²   |                      |  |  |  |
| • maximum  | 25 mm²   |                      |  |  |  |
| 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   | Quick assembly system                                |                      |  |  |  |
| mounting position  | any  |                      |  |  |  |
| net weight   | 288 g  |                      |  |  |  |
| Environmental conditions   |  |                      |  |  |  |
| influence of the surrounding temperature   | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°  | С                    |  |  |  |
| 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  | -40 °C   |                      |  |  |  |
| • maximum  | 70 °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  |                      |  |  |  |
| General Product Approval   |  |                      |  |  |  |
|  |  | <u>Miscellaneous</u> |  |  |  |
| General Product Approval EMC   | Declaration of Conformity                            | Test Certificates    |  |  |  |
|  |  |                      |  |  |  |

| EHC  | <u>Miscellaneous</u>   | RCM                              | UK<br>CA  | CE<br>EG-Konf.          | <u>Special Test Certific-</u><br><u>ate</u> |
|--|--|----------------------------------|---|-------------------------|---|
| Marine / Shipping  |  |                                  |   |                         | other                                       |
| ABS  | BUREAU<br>VERITAS  | Lloyd's<br>Register<br>urs       | RINA  | DNV-GL                  | <u>Miscellaneous</u>                        |
| other  | Railway  |                                  | Environment   |                         |   |
| <u>Confirmation</u>  | Vibration and Shock  | <u>Confirmation</u>              | Environmental Con-<br>firmations                    |                         |   |
| https://press.siemens.<br>Siemens is working of  | d to exit the Russian marke<br>com/global/en/pressrelease/s<br>on the renewal of the curren<br>cal Siemens office on the sta | iemens-wind-down-ru              | ssian-business<br>AC certification if you intend to | o import or offer to su | upply these products to an                  |
| Information on the p<br>https://support.industry<br>Information- and Dov<br>http://www.siemens.cc<br>Industry Mall (Online | v.siemens.com/cs/ww/en/view<br>vnloadcenter (Catalogs, Bro<br>m/lowvoltage/catalogs<br>ordering system)                      | <u>v/109813875</u><br>ochures,…) |   |                         |   |
| Service&Support (Ma<br>https://support.industry  | emens.com/mall/en/en/Catalo<br>anuals, Certificates, Charac<br>/.siemens.com/cs/ww/en/ps/E<br>duct images, 2D dimension      | teristics, FAQs,)<br>SY7208-7    |   | N                       |   |
|  | <u>.siemens.com/bilddb/cax_en</u><br>or<br>om/cax<br>s   |                                  | ls, device circuit diagrams,<br>7                   | )                       |   |









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