

Miniature circuit breaker 400 V 10kA, 3-pole, C, 80 A, D=70 mm



Figure similar

| Model                                                |                                |
|------------------------------------------------------|--------------------------------|
| Product brand name                                   | SETRON                         |
| Product designation                                  | Miniature circuit breaker      |
| Design of the product                                | 5SP Miniature circuit breakers |
| General technical data                               |                                |
| Number of poles                                      | 3                              |
| Number of poles / Note                               | 3P                             |
| Tripping characteristic class                        | C                              |
| circuit-breaker / Design                             | 5SP4                           |
| Mechanical service life (switching cycles) / typical | 10 000                         |
| Overvoltage category                                 | 3                              |
| Voltage                                              |                                |
| Type of voltage                                      | AC                             |
| Insulation voltage                                   |                                |
| • at AC / rated value                                | 440 V                          |
| • with multi-phase operation / at AC / rated value   | 440 V                          |

|                                                                                             |                                                                                        |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Supply voltage                                                                              |                                                                                        |
| Supply voltage / at AC / rated value                                                        | 400 V                                                                                  |
| Supply voltage frequency / rated value                                                      | 50 Hz                                                                                  |
| Protection class                                                                            |                                                                                        |
| Protection class IP                                                                         | IP20 with connected conductors, IP40 in the area of the handle with distribution cover |
| Switching capacity                                                                          |                                                                                        |
| Switching capacity current                                                                  |                                                                                        |
| • acc. 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 | 7 W                                                                                    |
| Electricity                                                                                 |                                                                                        |
| Tripping residual / rated value / derated current / at 40 Cel                               | 76 A                                                                                   |
| Current / at AC / rated value                                                               | 80 A                                                                                   |
| Product details                                                                             |                                                                                        |
| Product feature / Touch protection                                                          | Yes                                                                                    |
| Product component                                                                           |                                                                                        |
| • Tunnel terminals top                                                                      | Yes                                                                                    |
| • Tunnel terminals bottom                                                                   | Yes                                                                                    |
| Product feature                                                                             |                                                                                        |
| • Properties for main switches in accordance with EN 60204-1                                | Yes                                                                                    |
| • halogen-free                                                                              | Yes                                                                                    |
| • sealable                                                                                  | Yes                                                                                    |
| • silicon-free                                                                              | Yes                                                                                    |
| Product extension / can be installed / supplementary devices                                | Yes                                                                                    |
| Product function                                                                            |                                                                                        |
| Product function / neutral conductor switching                                              | No                                                                                     |
| Number                                                                                      |                                                                                        |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30                  | 6                                                                                      |
| Connections                                                                                 |                                                                                        |
| Connectable conductor cross-section / stranded                                              |                                                                                        |
| • minimum                                                                                   | 25 mm <sup>2</sup>                                                                     |
| • maximum                                                                                   | 50 mm <sup>2</sup>                                                                     |
| Connectable conductor cross-section / solid                                                 |                                                                                        |
| • minimum                                                                                   | 25 mm <sup>2</sup>                                                                     |

|                                                           |             |
|-----------------------------------------------------------|-------------|
| • maximum                                                 | 50 mm²      |
| AWG number / as coded connectable conductor cross section |             |
| • minimum                                                 | 3           |
| • maximum                                                 | 1           |
| Tightening torque [lbf·in] / with screw-type terminals    |             |
| • minimum                                                 | 22.1 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                 | 81 mm |
| Depth                 | 76 mm |
| Mounting position     | any   |
| Installation depth    | 70 mm |
| Number of width units | 4.5   |
| Net weight            | 792 g |

#### Environmental conditions

|                                              |                                                 |
|----------------------------------------------|-------------------------------------------------|
| Degree of pollution                          | 3                                               |
| Influence of the surrounding temperature     | Max. 95% rel. humidity                          |
| Shock resistance / acc. to IEC 60068-2-27    | 150m/s² at 11ms half-sine                       |
| Vibration resistance / acc. to IEC 60068-2-6 | 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) |
| Ambient temperature                          |                                                 |
| • minimum                                    | -25 °C                                          |
| • maximum                                    | 55 °C                                           |
| • during storage / minimum                   | -40 °C                                          |
| • during storage / maximum                   | 75 °C                                           |

#### Certificates

|                            |    |
|----------------------------|----|
| Reference code             |    |
| • acc. to DIN EN 61346-2   | F  |
| • acc. to IEC 81346-2:2009 | FC |

#### General Product Approval

#### Declaration of Conformity

#### Test Certificates



[Special Test  
Certificate](#)

## Further information

### 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=5SP4380-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP4380-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4380-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4380-7)

### CAX-Online-Generator

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

### Tender specifications

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





