



key-operated switch Siemens, 22 mm, round, plastic, lock number SSG10, with 2 keys, 3 switch positions I-O<II, left latching, momentary contact type on the right, actuating angle 2x45°, 10:30h/12h/13:30h, key removal I, with laser labeling, lower case

|                                                  |                                                                                            |
|--------------------------------------------------|--------------------------------------------------------------------------------------------|
| product brand name                               | SIRIUS ACT                                                                                 |
| product designation                              | Key-operated switches                                                                      |
| design of the product                            | Actuating/signaling element                                                                |
| product type designation                         | 3SU1                                                                                       |
| product line                                     | Plastic, black, 22 mm                                                                      |
| manufacturer's article number of included key    | <a href="#">3SU1950-0FP80-0AA0</a>                                                         |
| Actuator                                         |                                                                                            |
| principle of operation of the actuating element  | latching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching |
| product extension optional light source          | No                                                                                         |
| color                                            |                                                                                            |
| • of the actuating element                       | silver                                                                                     |
| material of the actuating element                | metal                                                                                      |
| shape of the actuating element                   | Key                                                                                        |
| outer diameter of the actuating element          | 29.5 mm                                                                                    |
| marking of the actuating element                 | Customized labeling, text in lower case letters                                            |
| number of switching positions                    | 3                                                                                          |
| switch position for key distraction              | I                                                                                          |
| actuating angle                                  |                                                                                            |
| • clockwise                                      | 45°                                                                                        |
| • anticlockwise                                  | 45°                                                                                        |
| lock make                                        | Siemens                                                                                    |
| key number                                       | SSG10                                                                                      |
| Front ring                                       |                                                                                            |
| product component front ring                     | Yes                                                                                        |
| design of the front ring                         | Standard                                                                                   |
| material of the front ring                       | plastic                                                                                    |
| color of the front ring                          | black                                                                                      |
| General technical data                           |                                                                                            |
| protection class IP                              | IP66, IP67, IP69(IP69K)                                                                    |
| • of the terminal                                | IP20                                                                                       |
| degree of protection NEMA rating                 | 1, 2, 3, 3R, 4, 4X, 12, 13                                                                 |
| shock resistance                                 |                                                                                            |
| • according to IEC 60068-2-27                    | sinusoidal half-wave 15g / 11 ms                                                           |
| • for railway applications according to EN 61373 | Category 1, Class B                                                                        |
| vibration resistance                             |                                                                                            |
| • according to IEC 60068-2-6                     | 10 ... 500 Hz: 5g                                                                          |

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| • for railway applications according to EN 61373          | Category 1, Class B |
| <b>operating frequency maximum</b>                        | 1 800 1/h           |
| <b>mechanical service life (operating cycles) typical</b> | 1 000 000           |
| <b>reference code according to IEC 81346-2</b>            | S                   |
| <b>Substance Prohibittance (Date)</b>                     | 10/01/2014          |

#### Safety related data

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| <b>proportion of dangerous failures</b>                              |         |
| • with low demand rate according to SN 31920                         | 20 %    |
| • with high demand rate according to SN 31920                        | 20 %    |
| <b>B10 value with high demand rate according to SN 31920</b>         | 300 000 |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 100 FIT |

#### Ambient conditions

|                                                                |                                                                    |
|----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>ambient temperature</b>                                     |                                                                    |
| • during operation                                             | -25 ... +70 °C                                                     |
| • during storage                                               | -40 ... +80 °C                                                     |
| environmental category during operation according to IEC 60721 | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |

#### Environmental footprint

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| Environmental Product Declaration (EPD)                | Yes             |
| Global Warming Potential [CO2 eq] total                | 0.787 kg        |
| Global Warming Potential [CO2 eq] during manufacturing | 0.566 kg        |
| Global Warming Potential [CO2 eq] during operation     | 0.235 kg        |
| Global Warming Potential [CO2 eq] after end of life    | -0.015 kg       |
| Siemens Eco Profile (SEP)                              | Siemens EcoTech |

#### Installation/ mounting/ dimensions

|                                                    |         |
|----------------------------------------------------|---------|
| <b>height</b>                                      | 29.5 mm |
| <b>width</b>                                       | 29.5 mm |
| <b>shape of the installation opening</b>           | round   |
| <b>mounting diameter</b>                           | 22.3 mm |
| <b>positive tolerance of installation diameter</b> | 0.4 mm  |
| <b>mounting height</b>                             | 61 mm   |
| <b>installation width</b>                          | 29.5 mm |
| <b>installation depth</b>                          | 25.4 mm |

#### Approvals Certificates

|                                 |                          |
|---------------------------------|--------------------------|
| <b>General Product Approval</b> | <b>Test Certificates</b> |
|---------------------------------|--------------------------|



[Confirmation](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

|                          |              |                    |
|--------------------------|--------------|--------------------|
| <b>Marine / Shipping</b> | <b>other</b> | <b>Environment</b> |
|--------------------------|--------------|--------------------|



[Confirmation](#)



#### Environment

**Siemens  
EcoTech**



#### Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1000-5BN21-0AA0-Z Y12>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-5BN21-0AA0-Z Y12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-5BN21-0AA0-Z Y12>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-5BN21-0AA0-Z Y12&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-5BN21-0AA0-Z Y12&lang=en)

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