

Pushbutton, 22 mm, round, plastic, red, pushbutton, flat, momentary contact type, with holder 1 NO+1 NC, spring-type terminal, with laser labeling, symbol number according to, ISO 7000 or IEC 60417

|                                                    |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| product brand name                                 | SIRIUS ACT                                                          |
| product designation                                | Pushbuttons                                                         |
| design of the product                              | Complete unit                                                       |
| product type designation                           | 3SU1                                                                |
| product line                                       | Plastic, black, 22 mm                                               |
| manufacturer's article number                      |                                                                     |
| • of supplied contact module at position 1         | <a href="#">3SU1400-1AA10-3FA0</a>                                  |
| • of the supplied holder                           | <a href="#">3SU1500-0AA10-0AA0</a>                                  |
| • of the supplied actuator                         | <a href="#">3SU1000-0AB20-0AA0</a>                                  |
| number of command points                           | 1                                                                   |
| <b>Actuator</b>                                    |                                                                     |
| design of the actuating element                    | Button, flat                                                        |
| principle of operation of the actuating element    | momentary contact type                                              |
| product extension optional light source            | No                                                                  |
| color of the actuating element                     | red                                                                 |
| material of the actuating element                  | plastic                                                             |
| shape of the actuating element                     | round                                                               |
| outer diameter of the actuating element            | 29.45 mm                                                            |
| marking of the actuating element                   | Customized labeling, graphical symbols acc. to ISO7000 and IEC60417 |
| number of contact modules                          | 1                                                                   |
| <b>Front ring</b>                                  |                                                                     |
| product component front ring                       | Yes                                                                 |
| design of the front ring                           | Standard                                                            |
| material of the front ring                         | plastic                                                             |
| color of the front ring                            | black                                                               |
| <b>Holder</b>                                      |                                                                     |
| material of the holder                             | Plastic                                                             |
| <b>Display</b>                                     |                                                                     |
| number of LED modules                              | 0                                                                   |
| <b>General technical data</b>                      |                                                                     |
| product function positive opening                  | Yes                                                                 |
| product component light source                     | No                                                                  |
| insulation voltage rated value                     | 500 V                                                               |
| degree of pollution                                | 3                                                                   |
| type of voltage of the operating voltage           | AC/DC                                                               |
| surge voltage resistance rated value               | 6 kV                                                                |
| protection class IP                                | IP66, IP67, IP69(IP69K)                                             |
| protection class IP 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 15 g / 11 ms                                   |
| • for railway applications according to EN 61373   | Category 1, Class B                                                 |
| vibration resistance                               |                                                                     |
| • according to IEC 60068-2-6                       | 10 ... 500 Hz: 5 g                                                  |
| • for railway applications according to EN 61373   | Category 1, Class B                                                 |
| operating frequency maximum                        | 3 600 1/h                                                           |
| mechanical service life (operating cycles) typical | 10 000 000                                                          |
| electrical endurance (operating cycles) typical    | 10 000 000                                                          |

|                                                                                     |                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>thermal current</b>                                                              | 10 A                                                                                                                                          |
| <b>reference code according to IEC 81346-2</b>                                      | S                                                                                                                                             |
| <b>continuous current of the C characteristic MCB</b>                               | 10 A; for a short-circuit current smaller than 400 A                                                                                          |
| <b>continuous current of the quick DIAZED fuse link</b>                             | 10 A                                                                                                                                          |
| <b>continuous current of the DIAZED fuse link gG</b>                                | 10 A                                                                                                                                          |
| <b>Substance Prohibitance (day/month/year)</b>                                      | 10/01/2014                                                                                                                                    |
| <b>Net Weight</b>                                                                   | 0.051 kg                                                                                                                                      |
| <b>operating voltage</b>                                                            |                                                                                                                                               |
| • at AC                                                                             |                                                                                                                                               |
| — at 50 Hz rated value                                                              | 5 ... 500 V                                                                                                                                   |
| — at 60 Hz rated value                                                              | 5 ... 500 V                                                                                                                                   |
| • at DC rated value                                                                 | 5 ... 500 V                                                                                                                                   |
| <b>Power Electronics</b>                                                            |                                                                                                                                               |
| <b>contact reliability</b>                                                          | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)                                                    |
| <b>Auxiliary circuit</b>                                                            |                                                                                                                                               |
| <b>design of the contact of auxiliary contacts</b>                                  | Silver alloy                                                                                                                                  |
| <b>number of NC contacts for auxiliary contacts</b>                                 | 1                                                                                                                                             |
| <b>number of NO contacts for auxiliary contacts</b>                                 | 1                                                                                                                                             |
| <b>Connections/ Terminals</b>                                                       |                                                                                                                                               |
| <b>type of electrical connection</b>                                                | spring-loaded terminals                                                                                                                       |
| • of modules and accessories                                                        | Spring-type terminal                                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                                 |                                                                                                                                               |
| • solid without core end processing                                                 | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                                            |
| • finely stranded with core end processing                                          | 2x (0.25 ... 0.75 mm <sup>2</sup> )                                                                                                           |
| • finely stranded without core end processing                                       | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                                            |
| • for AWG cables                                                                    | 2x (24 ... 16)                                                                                                                                |
| <b>tightening torque of the screws in the bracket</b>                               | 1 ... 1.2 N·m                                                                                                                                 |
| <b>Safety related data</b>                                                          |                                                                                                                                               |
| <b>product function suitable for safety function</b>                                | Yes                                                                                                                                           |
| <b>test wear-related service life necessary</b>                                     | Yes                                                                                                                                           |
| <b>proportion of dangerous failures</b>                                             |                                                                                                                                               |
| • with low demand rate according to SN 31920                                        | 20 %                                                                                                                                          |
| • with high demand rate per NC contact according to SN 31920                        | 20 %                                                                                                                                          |
| • with high demand rate per NO contact according to SN 31920                        | 50 %                                                                                                                                          |
| <b>B10 value with high demand rate according to SN 31920</b>                        | 10 000 000                                                                                                                                    |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b> | 100 FIT                                                                                                                                       |
| <b>ISO 13849</b>                                                                    |                                                                                                                                               |
| <b>device type according to ISO 13849-1</b>                                         | 3                                                                                                                                             |
| <b>IEC 61508</b>                                                                    |                                                                                                                                               |
| <b>safety device type according to IEC 61508-2</b>                                  | Type A                                                                                                                                        |
| <b>T1 value for proof test interval or service life according to IEC 61508</b>      | 20 a                                                                                                                                          |
| <b>Ambient conditions</b>                                                           |                                                                                                                                               |
| <b>ambient temperature</b>                                                          |                                                                                                                                               |
| • during operation                                                                  | -25 ... +70 °C                                                                                                                                |
| • during storage                                                                    | -40 ... +80 °C                                                                                                                                |
| <b>environmental category during operation according to IEC 60721</b>               | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted for all devices behind front panel) |
| <b>Installation/ mounting/ dimensions</b>                                           |                                                                                                                                               |
| <b>fastening method</b>                                                             | front plate mounting                                                                                                                          |
| • of modules and accessories                                                        | Front plate mounting                                                                                                                          |
| <b>height</b>                                                                       | 40 mm                                                                                                                                         |
| <b>width</b>                                                                        | 30 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                                                                                                                                        |

|                    |         |
|--------------------|---------|
| mounting height    | 11 mm   |
| installation width | 29.5 mm |
| installation depth | 71.7 mm |

#### 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 |

#### Approvals Certificates

|                                                                                                                                                                                                                                                                                            |                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Environmental Product Declaration                                                                                                                                                                                                                                                          |                                                                                                                    |
| <ul style="list-style-type: none"> <li>global warming potential [CO2 eq] / during manufacturing</li> <li>global warming potential [CO2 eq] / during operation</li> <li>global warming potential [CO2 eq] / after end of life</li> <li>global warming potential [CO2 eq] / total</li> </ul> | <ul style="list-style-type: none"> <li>0.566 kg</li> <li>0.235 kg</li> <li>-0.0145 kg</li> <li>0.787 kg</li> </ul> |
| Environment                                                                                                                                                                                                                                                                                | General Product Approval                                                                                           |

[Environmental Confirmations](#)



|                          |                   |                      |
|--------------------------|-------------------|----------------------|
| General Product Approval | Test Certificates | Maritime application |
|--------------------------|-------------------|----------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                      |       |
|----------------------|-------|
| Maritime application | other |
|----------------------|-------|



[Confirmation](#)



#### 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/ic10>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1100-0AB20-3FA0-Z Y13>

##### Cax online generator

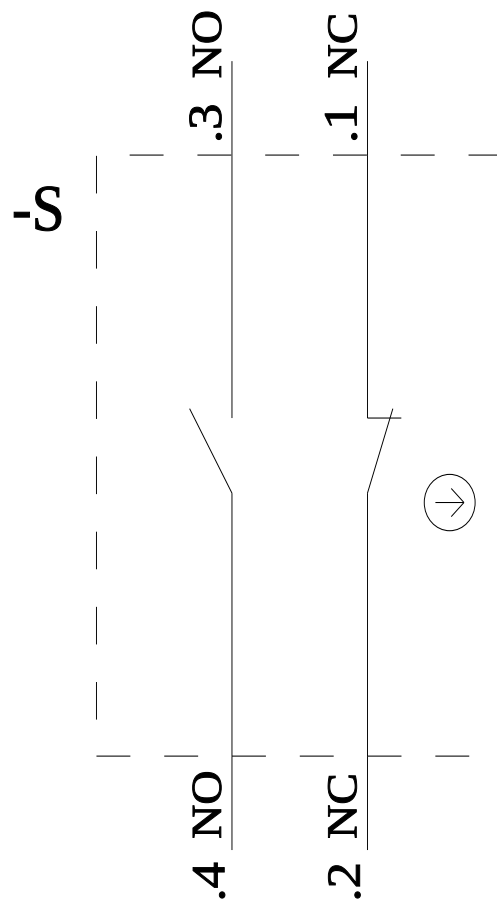
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-0AB20-3FA0-Z Y13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-0AB20-3FA0-Z Y13>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1100-0AB20-3FA0-Z Y13&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-0AB20-3FA0-Z Y13&lang=en)



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