SIEMENS

## Data sheet 3SU1100-1HB20-1CH0

EMERGENCY STOP mushroom-type actuator, 22 mm, round, plastic, red, 40 mm, positive latching, according to EN ISO 13850, rotate-to-unlatch, with yellow backing plate, inscription: NOT-HALT, with holder, 1 NC, screw terminal

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|---|---|
| **product brand name** | SIRIUS ACT |
| **product designation** | EMERGENCY STOP mushroom 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 | 3SU1400-1AA10-1CA0 |
| ● of the supplied holder | 3SU1500-0AA10-0AA0 |
| ● of the supplied actuator | 3SU1000-1HB20-0AA0 |
| ● of supplied accessory | 3SU1900-0BC31-0AT0 |
| **Enclosure** | |
| **number of command points** | 1 |
| **Actuator** | |
| **design of the actuating element** | positive latching |
| **principle of operation of the actuating element** | latching |
| 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** | 40 mm |
| **number of contact modules** | 1 |
| **type of unlocking device** | rotate-to-unlatch mechanism |
| **Front ring** | |
| **product component front ring** | No |
| **Holder** | |
| **material of the holder** | Plastic |
| **Display** | |
| **number of LED modules** | 0 |
| **General technical data** | |
| **product function** | |
| ● positive opening | Yes |
| ● EMERGENCY OFF function | Yes |
| ● EMERGENCY STOP function | 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 |


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|---|---|
| **surge voltage resistance rated value** | 6 kV |
| **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** | |
| ● acc. to IEC 60068-2-27 | Sinusoidal half-wave 50g / 11 ms |
| ● for railway applications acc. to DIN EN 61373 | Category 1, Class B |
| **vibration resistance** | |
| ● acc. to IEC 60068-2-6 | 10 ... 500 Hz: 5g |
| ● for railway applications acc. to DIN EN 61373 | Category 1, Class B |
| **operating frequency maximum** | 600 1/h |
| mechanical service life (switching cycles) typical | 300 000 |
| electrical endurance (switching cycles) typical | 300 000 |
| **thermal current** | 10 A |
| **reference code acc. to IEC 81346-2** | S |
| **continuous current of the C characteristic MCB** | 10 A; for a short-circuit current smaller than 400 A |
| **continuous current of the quick DIAZED fuse link** | 10 A |
| **continuous current of the DIAZED fuse link gG** | 10 A |
| ● operating voltage at AC | |
| — at 50 Hz rated value | 5 ... 500 V |
| — at 60 Hz rated value | 5 ... 500 V |
| ● operating voltage at DC rated value | 5 ... 500 V |
| **Power Electronics** | |
| **contact reliability** | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA) |
| **Auxiliary circuit** | |
| **design of the contact of auxiliary contacts** | Silver alloy |
| **number of NC contacts for auxiliary contacts** | 1 |
| **number of NO contacts for auxiliary contacts** | 0 |
| **Connections/ Terminals** | |
| **type of electrical connection** | |
| ● of modules and accessories | Screw-type terminal |
| **type of connectable conductor cross-sections** | |
| ● solid with core end processing | 2x (0.5 ... 0.75 mm²) |
| ● solid without core end processing | 2x (1.0 ... 1.5 mm²) |
| ● finely stranded with core end processing | 2x (0.5 ... 1.5 mm²) |
| ● finely stranded without core end processing | 2x (1,0 ... 1,5 mm²) |
| ● at AWG cables | 2x (18 ... 14) |
| **tightening torque of the screws in the bracket** | 1 ... 1.2 N·m |
| ● tightening torque for auxiliary contacts with screw-type terminals | 0.8 ... 0.9 N·m |
| **Safety related data** | |
| B10 value with high demand rate acc. to SN 31920 | 100 000 |
| **proportion of dangerous failures** | |
| ● with low demand rate acc. to SN 31920 | 20 % |
| ● with high demand rate acc. to SN 31920 | 20 % |
| failure rate [FIT] with low demand rate acc. to SN 31920 | 100 FIT |
| **T1 value for proof test interval or service life acc. to IEC 61508** | 20 y |
| **Ambient conditions** | |
| ● ambient temperature during operation | -25 ... +70 °C |
| ● ambient temperature during storage | -40 ... +80 °C |
| environmental category during operation acc. to IEC 60721 | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95 %, no condensation in operation permitted for all devices behind front panel) |
| **Installation/ mounting/ dimensions** | |
| **fastening method** | front panel mounting |
| ● of modules and accessories | Front plate mounting |
| **height** | 40 mm |


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| **width** | 30 mm |
| **shape of the installation opening** | round |
| **mounting diameter** | 22.3 mm |
| **positive tolerance of installation diameter** | 0.4 mm |
| **mounting height** | 46.4 mm |
| **installation width** | 75 mm |
| **installation depth** | 48.6 mm |

## Accessories

| | |
|---|---|
| **number of backing plates** | 1 |
| **marking of backing plate** | EMERGENCY-STOP |
| **color of backing plate** | Yellow |

## Certificates/ approvals

**General Product Approval**

**Declaration of Conformity**

Miscellaneous

**Test Certificates**

Type Test Certificates/Test Report

Special Test Certificate

**Marine / Shipping**

**Marine / Shipping**

**other**

Confirmation

## Further information

**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=3SU1100-1HB20-1CH0
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1HB20-1CH0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1HB20-1CH0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-1HB20-1CH0&lang=en


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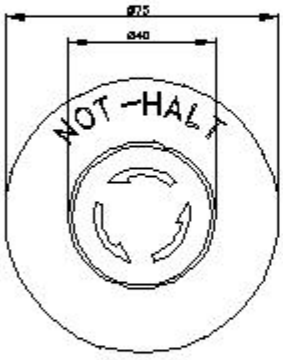


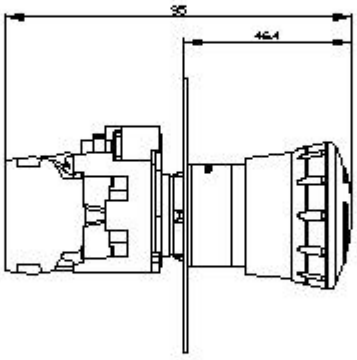

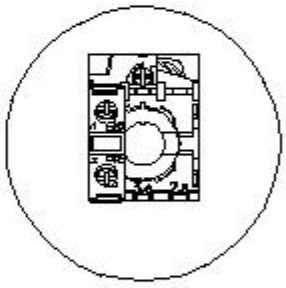


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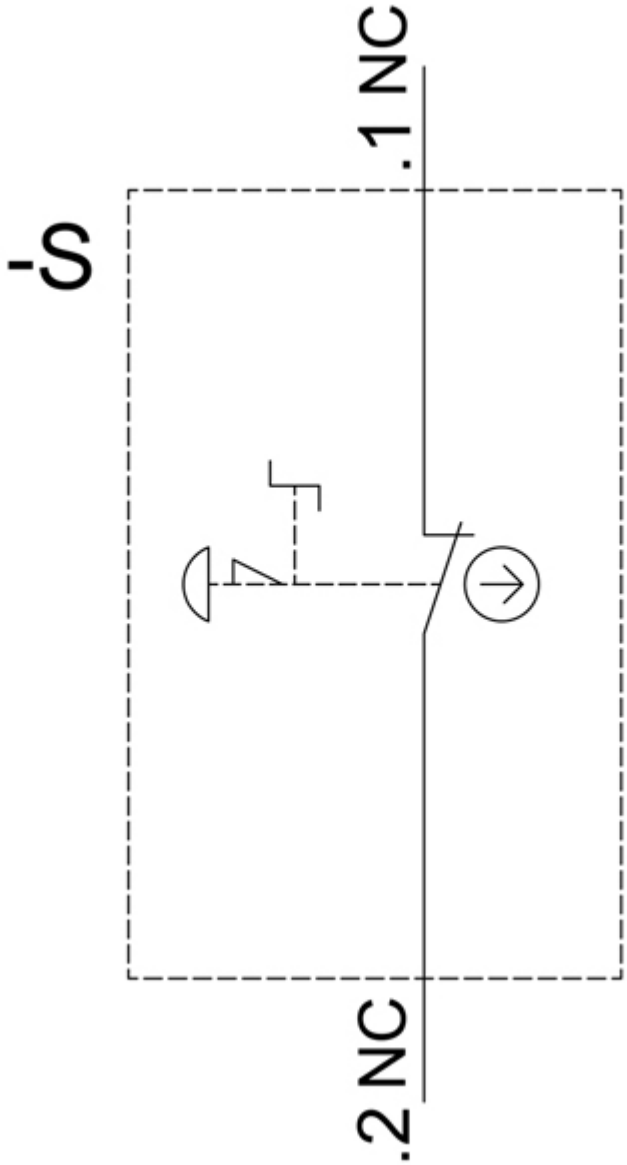


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