SIEMENS

## Data sheet 3SE5112-0BA00




Basic switch for position switch 3SE51 Metal enclosure, according to EN 50041 1x (M20x 1.5) 1 NO/1 NC slow-action contacts without actuator head

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | Mechanical safety switches |
| **product type designation** | 3SE5 |
| **manufacturer's article number** | |
| ● of the supplied switching contacts | 3SE5000-0BA00 |
| ● of the supplied empty enclosure with cover | 3SE5112-0AA00 |
| **General technical data** | |
| product function positive opening | Yes |
| **insulation voltage rated value** | 400 V |
| **degree of pollution** | class 3 |
| **surge voltage resistance rated value** | 6 kV |
| **protection class IP** | IP66/IP67 |
| **shock resistance** | |
| ● **according to IEC 60068-2-27** | 30 g / 11 ms |
| **vibration resistance according to IEC 60068-2-6** | 0.35 mm/5 g |
| **mechanical service life (operating cycles) typical** | 15 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| **thermal current** | 10 A |
| **reference code according to IEC 81346-2** | B |
| **continuous current of the C characteristic MCB** | 1 A; for a short-circuit current smaller than 400 A |
| **continuous current of the quick DIAZED fuse link** | 10 A; for a short-circuit current smaller than 400 A |
| **continuous current of the DIAZED fuse link gG** | 6 A |
| **active principle** | mechanical |
| **repeat accuracy** | 0.05 mm |
| **Substance Prohibitance (day/month/year)** | 07/01/2006 |
| **SVHC substance name** | Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7 |
| **Net Weight** | 0.296 kg |
| **minimum actuating force in directions of actuation** | 20 N |
| **length of the sensor** | 85.7 mm |
| **width of the sensor** | 40 mm |
| **Ambient conditions** | |
| **ambient temperature** | |
| ● during operation | -25 ... +85 °C |
| ● during storage | -40 ... +90 °C |
| **explosion protection category for dust** | none |
| **Main circuit** | |
| **design of the switching contact** | mechanical |
| **operating frequency rated value** | 50 ... 60 Hz |
| **number of NC contacts for auxiliary contacts** | 1 |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| **number of NO contacts for auxiliary contacts** | 1 |
| **operational current at AC-15** | |
| ● at 24 V rated value | 6 A |
| ● at 125 V rated value | 6 A |
| ● at 240 V rated value | 6 A |
| ● at 400 V rated value | 4 A |
| **operational current at DC-13** | |
| ● at 24 V rated value | 3 A |
| ● at 125 V rated value | 0.55 A |
| ● at 250 V rated value | 0.27 A |
| ● at 400 V rated value | 0.12 A |
| **Enclosure** | |
| **design of the housing** | block, narrow |
| **material of the enclosure** | metal |
| **coating of the enclosure** | cathodic dip coating |
| **design of the housing according to standard** | Yes |
| **Drive Head** | |
| **design of the actuating element** | Other, without, basic switch |
| **design of the switching function** | Positive opening with appropriate positive opening actuator head |
| **circuit principle** | slow-action contacts |
| number of switching contacts safety-related | 1 |
| **cable entry type** | 1x (M20 x 1.5) |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | any |
| **fastening method** | screw fixing |
| **Connections/ Terminals** | |
| **type of electrical connection** | screw terminal |
| **type of connectable conductor cross-sections** | |
| ● solid | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²) |
| ● finely stranded with core end processing | 1x (0.5 ... 1.5 mm²), 2x (0.5 ... 0.75 mm²) |
| ● for AWG cables solid | 1x (20 ... 16), 2x (20 ... 18) |
| ● for AWG cables stranded | 1x (20 ... 16), 2x (20 ... 18) |
| design of the interface for safety-related communication | without |
| **Communication/ Protocol** | |
| **design of the interface** | without |
| **Safety related data** | |
| product function suitable for safety function | Yes |
| **service life maximum** | 20 a |
| **test wear-related service life necessary** | Yes |
| **proportion of dangerous failures** | |
| ● with low demand rate according to SN 31920 | 20 % |
| ● with high demand rate according to SN 31920 | 20 % |
| **B10 value with high demand rate according to SN 31920** | 10 000 000 |
| **failure rate [FIT] with low demand rate according to SN 31920** | 100 FIT |
| ISO 13849 | |
| **device type according to ISO 13849-1** | 3 |
| IEC 61508 | |
| **safety device type according to IEC 61508-2** | A |

**Approvals Certificates**

| **General Product Approval** | **Test Certificates** |
|---|---|
| CCC, cULus, EAC, CE EG-Konf., UKCA | Type Test Certific-ates/Test Report |

| **other** | **Environment** |
|---|---|

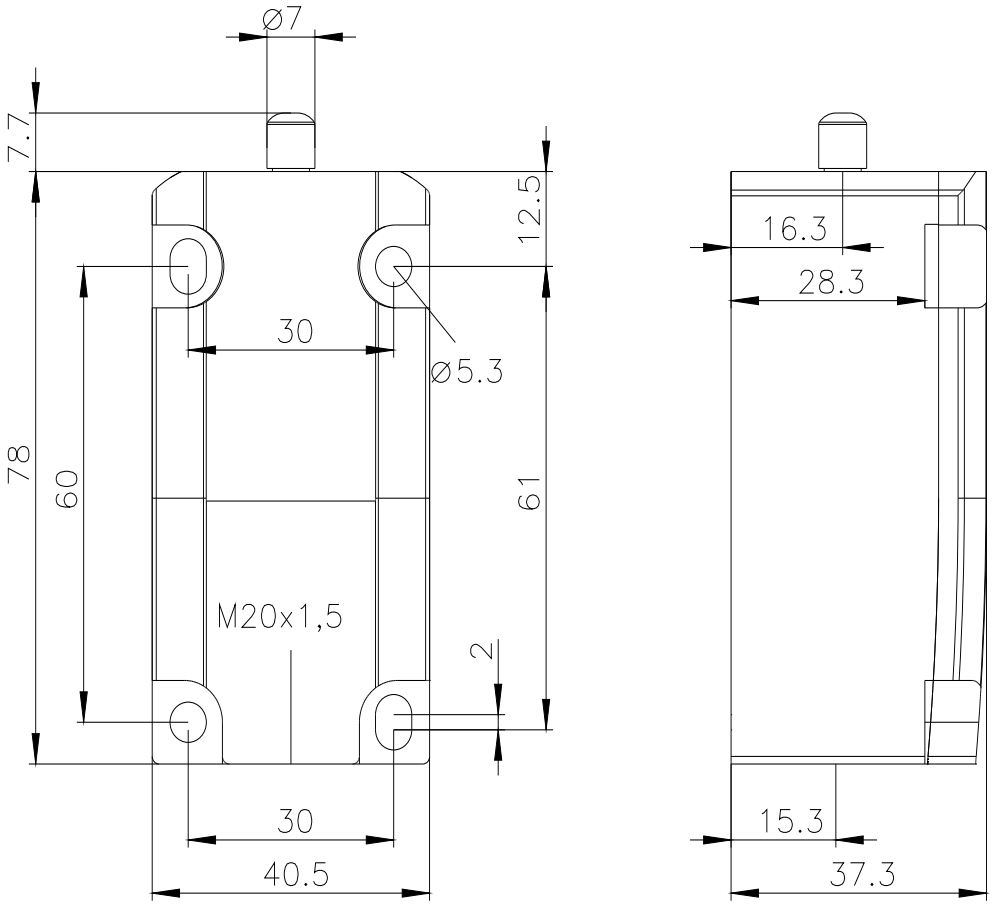

Subject to change without notice
© Copyright Siemens

Confirmation

Environmental Confirmations

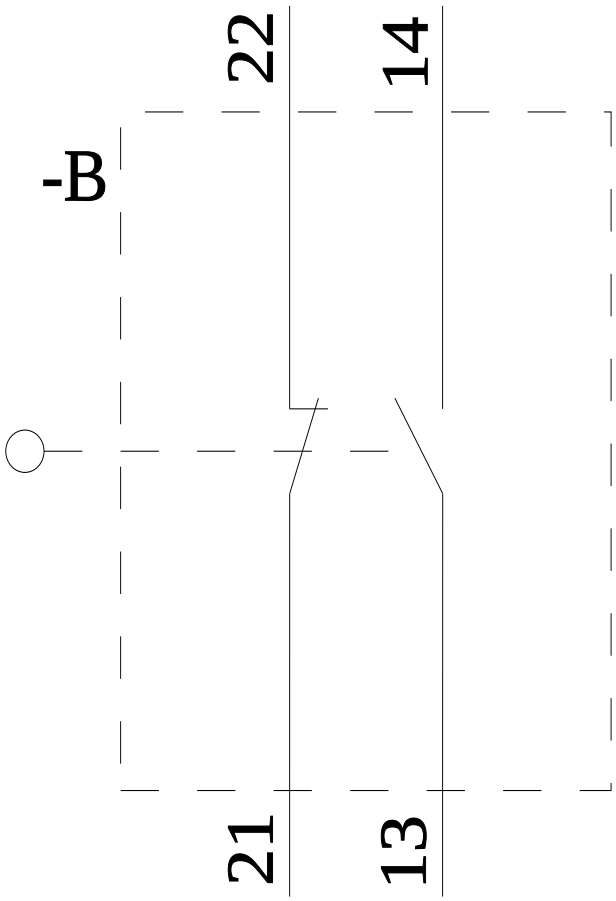
## Further information

**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=3SE5112-0BA00
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0BA00
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0BA00
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0BA00&lang=en





Subject to change without notice
© Copyright Siemens




**last modified:** 4/4/2026


Subject to change without notice
© Copyright Siemens