SIEMENS

## Data sheet 3SF1234-1QV40-1BA1



Safety position switch with separate actuator 5 directions of approaches Plastic enclosure, EN 50047 ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Slow-action contacts 2 NC with M12 connector 4-pole Channel 1 to NC, Channel 2 to NC

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | Mechanical safety switches |
| **product type designation** | 3SF12 |
| **manufacturer's article number** | |
| ● of the optional actuators | 3SE5000-0AV01 standard actuator, 3SE5000-0AV02 actuator with vertical fixing, 3SE5000-0AV03 actuator with transverse fixing, 3SE5000-0AV04 radius actuator left, 3SE5000-0AV05 universal actuator, 3SE5000-0AV06 radius actuator right |
| **General technical data** | |
| product function positive opening | Yes |
| **insulation voltage rated value** | 30 V |
| **degree of pollution** | class 3 |
| **surge voltage resistance rated value** | 0.8 kV |
| **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** | 1 000 000 |
| **material of the enclosure of the switch head** | plastic enclosure |
| **reference code according to IEC 81346-2** | B |
| **active principle** | mechanical |
| **repeat accuracy** | 0.1 mm |
| **Substance Prohibitance (day/month/year)** | 03/01/2017 |
| **SVHC substance name** | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1<br>Diboron trioxide CAS-No. 1303-86-2<br>Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7 |
| **Net Weight** | 0.102 kg |
| **minimum actuating force in directions of actuation** | 20 N |
| **length of the sensor** | 118 mm |
| **width of the sensor** | 31 mm |
| **Ambient conditions** | |
| **ambient temperature** | |
| ● during operation | -25 ... +60 °C |
| ● during storage | -40 ... +80 °C |
| **design of the switching contact** | mechanical |
| **number of NC contacts for auxiliary contacts** | 2 |
| **number of NO contacts for auxiliary contacts** | 0 |
| **Enclosure** | |
| **design of the housing** | block, narrow |


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| | |
|---|---|
| **material of the enclosure** | plastic |
| **design of the housing according to standard** | Yes |
| **Drive Head** | |
| **design of the actuating element** | without |
| **design of the switching function** | positive opening |
| **circuit principle** | slow-action contacts |
| number of switching contacts safety-related | 2 |
| **design of plug-in connection** | M12 plug, 4-pole: Pin 1 = ASI+ , Pin 2 = not assigned, Pin 3= ASI-, Pin 4 = not assigned |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | any |
| **fastening method** | screw fixing |
| **Connections/ Terminals** | |
| **type of electrical connection** | M12 plug, fixed, 4-pole |
| **Supply voltage** | |
| type of voltage of the supply voltage of the optional LED display | DC |
| **supply voltage of LED** | |
| • | 24 V |
| design of the interface for safety-related communication | ASIsafe via M12 plug |
| **Safety related data** | |
| proportion of dangerous failures with high demand rate according to SN 31920 | 20 % |
| **B10 value with high demand rate according to SN 31920** | 1 000 000 |
| **Approvals Certificates** | |

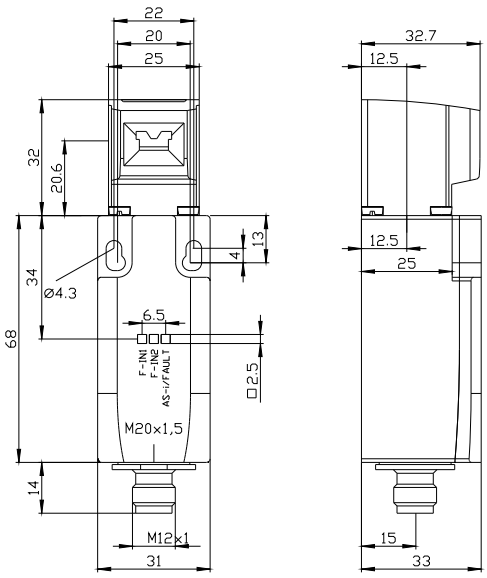
| General Product Approval | Test Certificates | other |
|---|---|---|
| | Type Test Certific-ates/Test Report | Confirmation |

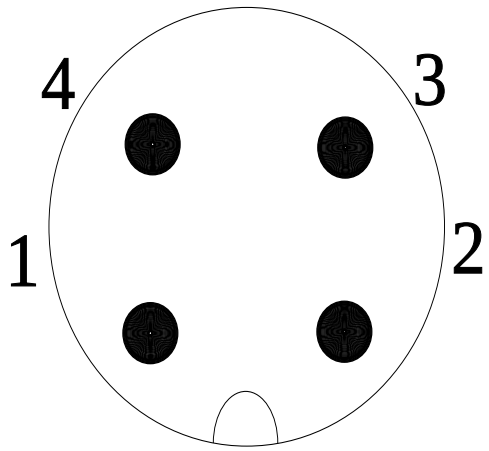
| other | Environment |
|---|---|
| | Environmental Con-firmations |

**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=3SF1234-1QV40-1BA1
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SF1234-1QV40-1BA1
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SF1234-1QV40-1BA1
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1234-1QV40-1BA1&lang=en


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| | | |
|---|---|---|
| 1 | → | ASI + |
| 2 | → | n. c. |
| 3 | → | ASI - |
| 4 | → | n. c. |

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