

Siemens  
EcoTech



Coordinate switch, 22 mm, round, metal shiny, black, 2 switch positions, vertical momentary contact type, without mechanical interlocking



|                                                          |                                  |
|----------------------------------------------------------|----------------------------------|
| product brand name                                       | SIRIUS ACT                       |
| product designation                                      | Coordinate switches              |
| design of the product                                    | Actuating/signaling element      |
| product type designation                                 | 3SU1                             |
| product line                                             | Metal, shiny, 22 mm              |
| <b>Enclosure</b>                                         |                                  |
| number of command points                                 | 1                                |
| <b>Actuator</b>                                          |                                  |
| design of the actuating element                          | without mechanical interlock     |
| principle of operation of the actuating element          | momentary contact type           |
| direction of actuation                                   | vertical                         |
| product extension optional                               |                                  |
| • light source                                           | No                               |
| • contact module                                         | Yes                              |
| color of the actuating element                           | black                            |
| material of the actuating element                        | plastic                          |
| shape of the actuating element                           | Extended handle                  |
| outer diameter of the actuating element                  | 30.5 mm                          |
| number of switching positions                            | 2                                |
| Maximum deflection angle [°]                             | 30°                              |
| <b>Front ring</b>                                        |                                  |
| product component front ring                             | Yes                              |
| design of the front ring                                 | high                             |
| material of the front ring                               | Metal, high gloss                |
| color of the front ring                                  | silver                           |
| <b>General technical data</b>                            |                                  |
| protection class IP                                      | IP65, IP67                       |
| 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 |
| vibration resistance                                     |                                  |
| • according to IEC 60068-2-6                             | 10 ... 500 Hz: 5g                |
| operating frequency maximum                              | 2 400 1/h                        |
| mechanical service life (operating cycles)               |                                  |
| • as operating period per direction of actuation typical | 500 000                          |
| reference code according to IEC 81346-2                  | S                                |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance Prohibitance (Date)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10/01/2014                                                                          |                                                                                                                                                                                                                                                                                                  |
| SVHC substance name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Melamine - 108-78-1                                                                 |                                                                                                                                                                                                                                                                                                  |
| Net Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 86 g                                                                                |                                                                                                                                                                                                                                                                                                  |
| Safety related data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 250 000                                                                             |                                                                                                                                                                                                                                                                                                  |
| failure rate [FIT] with low demand rate according to SN 31920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100 FIT                                                                             |                                                                                                                                                                                                                                                                                                  |
| IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| T1 value for proof test interval or service life according to IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20 a                                                                                |                                                                                                                                                                                                                                                                                                  |
| Ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| • 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%)                  |                                                                                                                                                                                                                                                                                                  |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30.5 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30.5 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| shape of the installation opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | round                                                                               |                                                                                                                                                                                                                                                                                                  |
| mounting diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 22.3 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| positive tolerance of installation diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.4 mm                                                                              |                                                                                                                                                                                                                                                                                                  |
| mounting height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 71.3 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| installation width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.5 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| installation depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25.6 mm                                                                             |                                                                                                                                                                                                                                                                                                  |
| Approvals Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| Environmental Product Declaration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| • global warming potential [CO2 eq] / during manufacturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.625 kg                                                                            |                                                                                                                                                                                                                                                                                                  |
| • global warming potential [CO2 eq] / during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.235 kg                                                                            |                                                                                                                                                                                                                                                                                                  |
| • global warming potential [CO2 eq] / after end of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -0.267 kg                                                                           |                                                                                                                                                                                                                                                                                                  |
| • global warming potential [CO2 eq] / total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.593 kg                                                                            |                                                                                                                                                                                                                                                                                                  |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | General Product Approval                                                            |                                                                                                                                                                                                                                                                                                  |
| <div><div></div><div></div><div><a href="#">Environmental Confirmations</a></div><div></div><div></div><div></div></div> |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Certificates                                                                   | Maritime application                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="#">Type Test Certificates/Test Report</a>                                  | <a href="#">Special Test Certificate</a>                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     | <div></div> <div></div> <div></div> |
| Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | other                                                                               |                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <a href="#">Confirmation</a>                                                                                                                                                                                                                                                                     |
| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| Information on the packaging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| Information for data generation and storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                                                                                                                  |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                  |

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=3SU1050-7AD88-0AA0>

Cax online generator

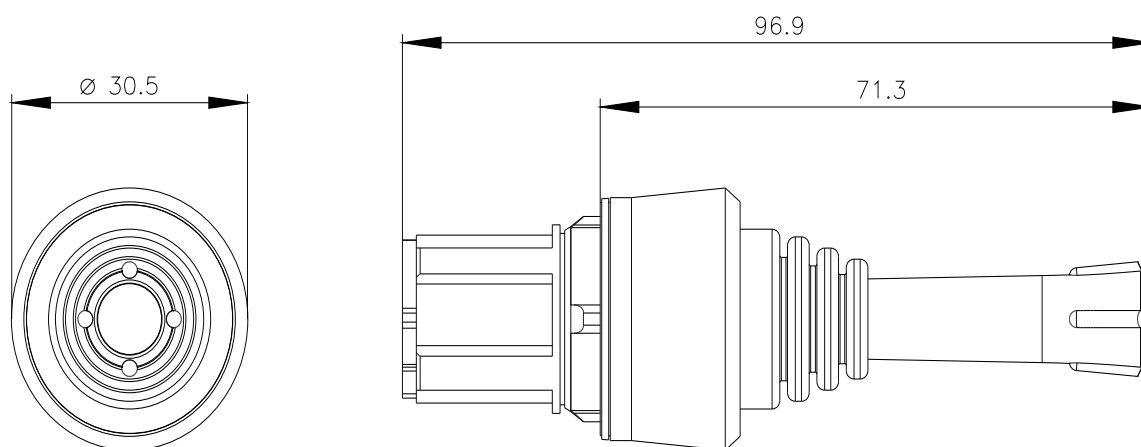
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1050-7AD88-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1050-7AD88-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1050-7AD88-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1050-7AD88-0AA0&lang=en)



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