



Position switch with increased corrosion protection Metal enclosure according to EN 50047, 31 mm Device connection 1 x (M20 x 1.5) 2 NO/1 NC slow-action contacts Teflon plunger

|                                                                                                                          |                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>product brand name</b>                                                                                                | SIRIUS                                               |
| <b>product designation</b>                                                                                               | Mechanical position switches                         |
| <b>product type designation</b>                                                                                          | 3SE5                                                 |
| <b>manufacturer's article number</b>                                                                                     |                                                      |
| • of the supplied basic switch                                                                                           | 3SE5212-0PC05-1CA0                                   |
| • of the supplied switching contacts                                                                                     | 3SE5000-0PA00                                        |
| • of the supplied empty enclosure with cover                                                                             | 3SE5212-0AC05-1CA0                                   |
| suitability for use safety switch                                                                                        | Yes                                                  |
| <b>General technical data</b>                                                                                            |                                                      |
| product function positive opening                                                                                        | Yes                                                  |
| insulation voltage rated value                                                                                           | 250 V                                                |
| degree of pollution                                                                                                      | class 3                                              |
| surge voltage resistance rated value                                                                                     | 4 kV                                                 |
| protection class IP                                                                                                      | IP66/IP67                                            |
| <b>shock resistance</b>                                                                                                  |                                                      |
| • acc. to IEC 60068-2-27                                                                                                 | 30g / 11 ms                                          |
| <b>vibration resistance</b>                                                                                              |                                                      |
| • acc. to IEC 60068-2-6                                                                                                  | 0.35 mm/5g                                           |
| mechanical service life (switching cycles) typical                                                                       | 15 000 000                                           |
| electrical endurance (switching cycles) at AC-15 at 230 V typical                                                        | 100 000                                              |
| <b>electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical</b> | 10 000 000                                           |
| <b>Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026</b>         | 6 000                                                |
| <b>thermal current</b>                                                                                                   | 10 A                                                 |
| <b>material of the enclosure of the switch head</b>                                                                      | metal                                                |
| <b>reference code acc. to IEC 81346-2</b>                                                                                | B                                                    |
| <b>continuous current of the C characteristic MCB</b>                                                                    | 1 A; for a short-circuit current smaller than 400 A  |
| <b>continuous current of the quick DIAZED fuse link</b>                                                                  | 10 A; for a short-circuit current smaller than 400 A |
| <b>continuous current of the DIAZED fuse link gG</b>                                                                     | 6 A                                                  |
| <b>active principle</b>                                                                                                  | mechanical                                           |
| <b>repeat accuracy</b>                                                                                                   | 0.05 mm                                              |
| <b>minimum actuating force in directions of actuation</b>                                                                | 20 N                                                 |
| <b>length of the sensor</b>                                                                                              | 75.7 mm                                              |
| <b>width of the sensor</b>                                                                                               | 31 mm                                                |
| <b>design of the switching contact</b>                                                                                   | mechanical                                           |

|                                                          |                                             |
|----------------------------------------------------------|---------------------------------------------|
| operating frequency rated value                          | 50 ... 60 Hz                                |
| number of NC contacts for auxiliary contacts             | 1                                           |
| number of NO contacts for auxiliary contacts             | 2                                           |
| operational current at AC-15                             |                                             |
| • at 24 V rated value                                    | 6 A                                         |
| • at 120 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                                      |
| design of the interface for safety-related communication | without                                     |
| <b>Enclosure</b>                                         |                                             |
| design of the housing                                    | block, narrow                               |
| material of the enclosure                                | metal                                       |
| coating of the enclosure                                 | cathodic immersion coating                  |
| design of the housing acc. to standard                   | Yes                                         |
| <b>Drive Head</b>                                        |                                             |
| design of the actuating element                          | Rounded plunger, Teflon plunger             |
| standard-compliant actuator head                         | EN 50047, design B                          |
| shape of the switch head                                 | rounded                                     |
| design of the switching function                         | positive opening                            |
| circuit principle                                        | slow-action contacts                        |
| number of switching contacts safety-related              | 1                                           |
| <b>Connections/ Terminals</b>                            |                                             |
| type of electrical connection                            | screw-type terminals                        |
| 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) |
| • at AWG cables solid                                    | 1x (20 ... 16), 2x (20 ... 18)              |
| • at AWG cables stranded                                 | 1x (20 ... 16), 2x (20 ... 18)              |
| cable entry type                                         | 1x (M20 x 1.5)                              |
| <b>Communication/ Protocol</b>                           |                                             |
| design of the interface                                  | without                                     |
| <b>Ambient conditions</b>                                |                                             |
| explosion protection category for dust                   | none                                        |
| <b>Installation/ mounting/ dimensions</b>                |                                             |
| mounting position                                        | any                                         |
| fastening method                                         | screw fixing                                |
| <b>Certificates/ approvals</b>                           |                                             |
| General Product Approval                                 |                                             |



[KC](#)



|                                       |                           |                   |       |
|---------------------------------------|---------------------------|-------------------|-------|
| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates | other |
|---------------------------------------|---------------------------|-------------------|-------|

[Type Examination Certificate](#)



[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Type Test Certificates/Test Report](#)

[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=3SE5212-0PC05-1CA0>

Cax online generator

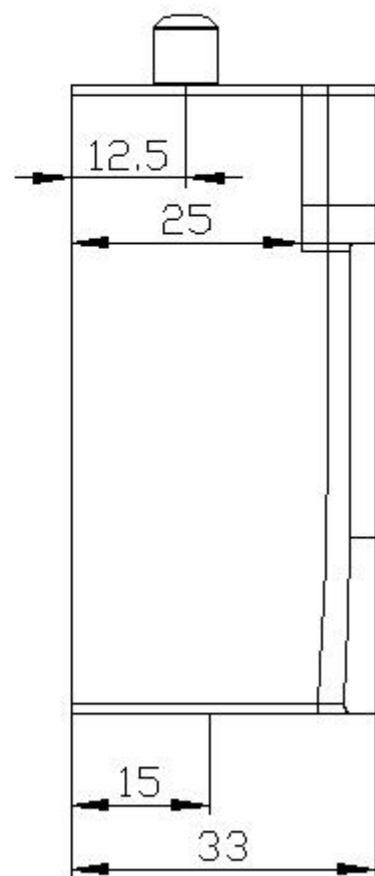
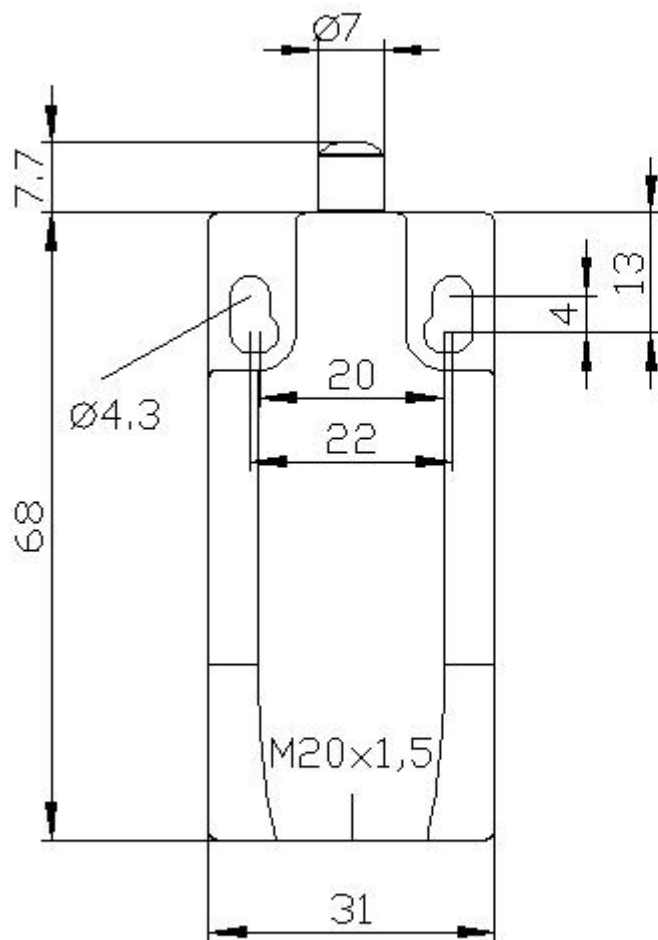
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0PC05-1CA0>

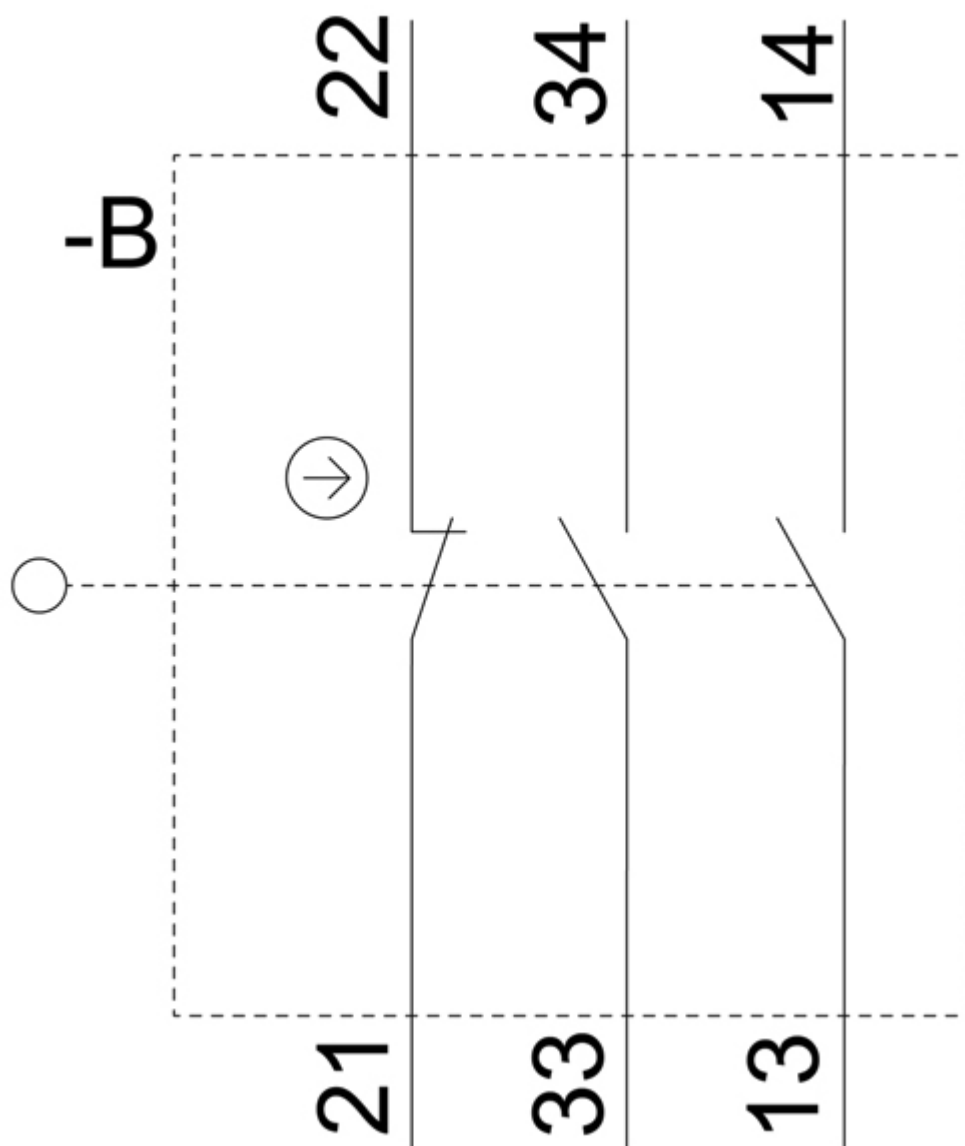
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

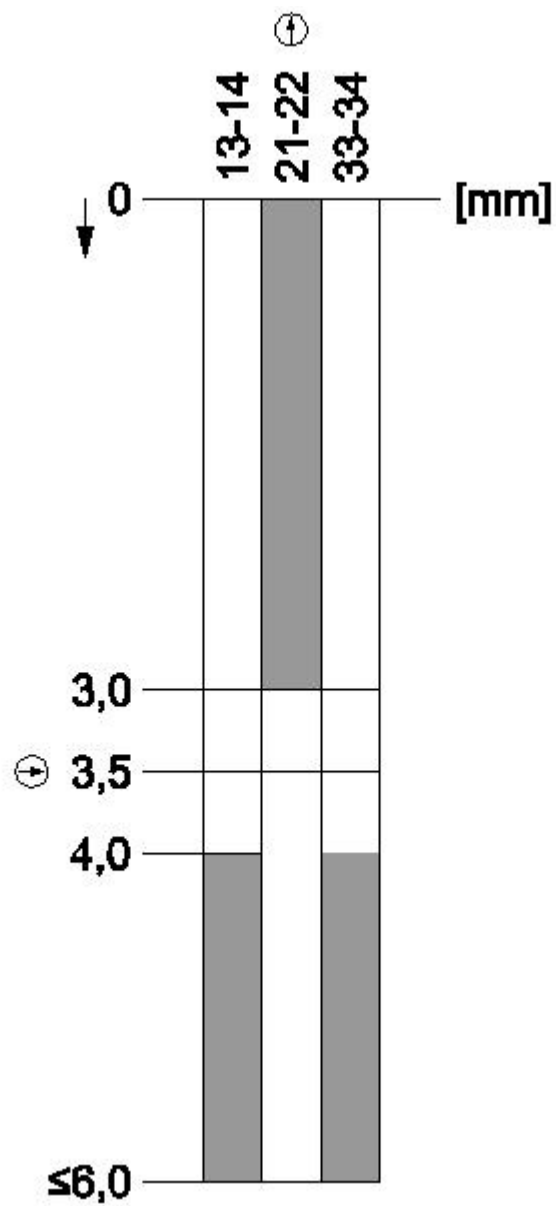
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0PC05-1CA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-0PC05-1CA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-0PC05-1CA0&lang=en)







last modified:

8/31/2020 [↗](#)