



Safety position switch with separate actuator Metal enclosure 31 mm, 1x (M20x 1.5), EN 50047 Slow-action contacts 1 NO+1 NC 5 directions of approaches The matching separate Actuator 3SE5000-0AV0./-0AW. must be ordered separately

|                                   |                            |
|-----------------------------------|----------------------------|
| Product brand name                | SIRIUS                     |
| Product designation               | Mechanical safety switches |
| Product type designation          | 3SE5                       |
| Suitability for use safety switch | Yes                        |

### 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                           |              |
| • acc. to IEC 60068-2-27                   | 30 g / 11 ms |
| Vibration resistance                       |              |
| • acc. to IEC 60068-2-6                    | 0.35 mm/5g   |
| Mechanical service life (switching cycles) |              |
| • typical                                  | 1 000 000    |
| Electrical endurance (switching cycles)    |              |

|                                                                                                                   |                                                      |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| • at AC-15 at 230 V typical                                                                                       | 100 000                                              |
| Electrical endurance (switching cycles) with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026 typical | 1 000 000                                            |
| Electrical operating cycles in one hour with contactor 3RH11, 3RT1016, 3RT1017, 3RT1024, 3RT1025, 3RT1026         | 6 000                                                |
| Thermal current                                                                                                   | 10 A                                                 |
| Material of the enclosure of the switch head                                                                      | metal                                                |
| Reference code acc. to DIN EN 81346-2                                                                             | B                                                    |
| Reference code acc. to DIN EN 61346-2                                                                             | 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; for a short-circuit current smaller than 400 A  |
| Active principle                                                                                                  | mechanical                                           |
| Repeat accuracy                                                                                                   | 0.05 mm                                              |
| Minimum actuating force in activation direction                                                                   | 20 N                                                 |
| Length of the sensor                                                                                              | 104 mm                                               |
| Width of the sensor                                                                                               | 31 mm                                                |
| Design of the switching contact                                                                                   | mechanical                                           |
| Operating frequency rated value                                                                                   | 50 ... 60 Hz                                         |
| Number of NC contacts for auxiliary contacts                                                                      | 1                                                    |
| Number of NO contacts for auxiliary contacts                                                                      | 1                                                    |
| Operating current at AC-15                                                                                        |                                                      |
| • at 24 V rated value                                                                                             | 6 A                                                  |
| • at 120 V rated value                                                                                            | 6 A                                                  |
| • at 240 V rated value                                                                                            | 4 A                                                  |
| • at 400 V rated value                                                                                            | 4 A                                                  |
| Operating 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                                              |

## Enclosure

|                                        |                            |
|----------------------------------------|----------------------------|
| 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                        |

## Drive Head

|                                   |          |
|-----------------------------------|----------|
| Design of the operating mechanism | without  |
| Standard-compliant actuator head  | EN 50047 |

|                                             |                      |
|---------------------------------------------|----------------------|
| <b>Design of the switching function</b>     | positive opening     |
| <b>Circuit principle</b>                    | slow-action contacts |
| Number of switching contacts safety-related | 1                    |

#### Connections/ Terminals

|                                                     |                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------|
| <b>Type of electrical connection</b>                | screw-type terminals                                                  |
| <b>Type of connectable conductor cross-sections</b> |                                                                       |
| • solid                                             | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • finely stranded with core end processing          | 1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 0.75 mm <sup>2</sup> ) |
| • at AWG conductors solid                           | 1x (20 ... 16), 2x (20 ... 18)                                        |
| • at AWG conductors stranded                        | 1x (20 ... 16), 2x (20 ... 18)                                        |

#### Safety related data

|                                          |                |
|------------------------------------------|----------------|
| <b>B10 value</b>                         |                |
| • with high demand rate acc. to SN 31920 | 1 000 000      |
| <b>Proportion of dangerous failures</b>  |                |
| • with high demand rate acc. to SN 31920 | 20 %           |
| <b>Cable entry type</b>                  | 1x (M20 x 1.5) |

#### Communication/ Protocol

|                                |         |
|--------------------------------|---------|
| <b>Design of the interface</b> | without |
|--------------------------------|---------|

#### Ambient conditions

|                                               |                |
|-----------------------------------------------|----------------|
| <b>Ambient temperature</b>                    |                |
| • during operation                            | -25 ... +85 °C |
| • during storage                              | -40 ... +90 °C |
| <b>Explosion protection category for dust</b> | none           |

#### Installation/ mounting/ dimensions

|                          |              |
|--------------------------|--------------|
| <b>Mounting position</b> | any          |
| <b>Mounting type</b>     | screw fixing |

#### Certificates/ approvals

|                          |                                       |                           |
|--------------------------|---------------------------------------|---------------------------|
| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity |
|--------------------------|---------------------------------------|---------------------------|



[Type Examination Certificate](#)



|                           |                   |       |
|---------------------------|-------------------|-------|
| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|

[Miscellaneous](#)

[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=3SE5212-0RV40>

**Cax online generator**

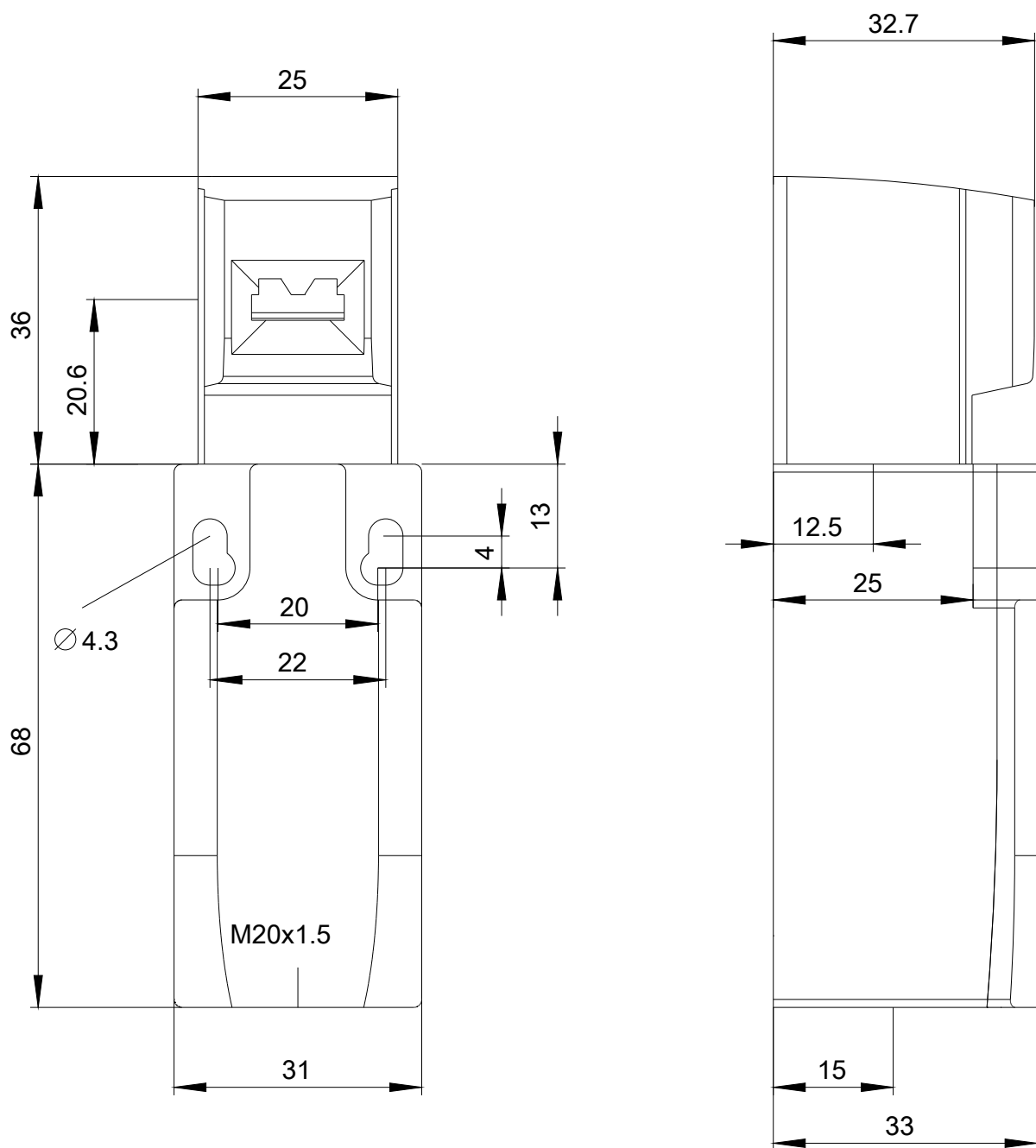
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5212-0RV40>

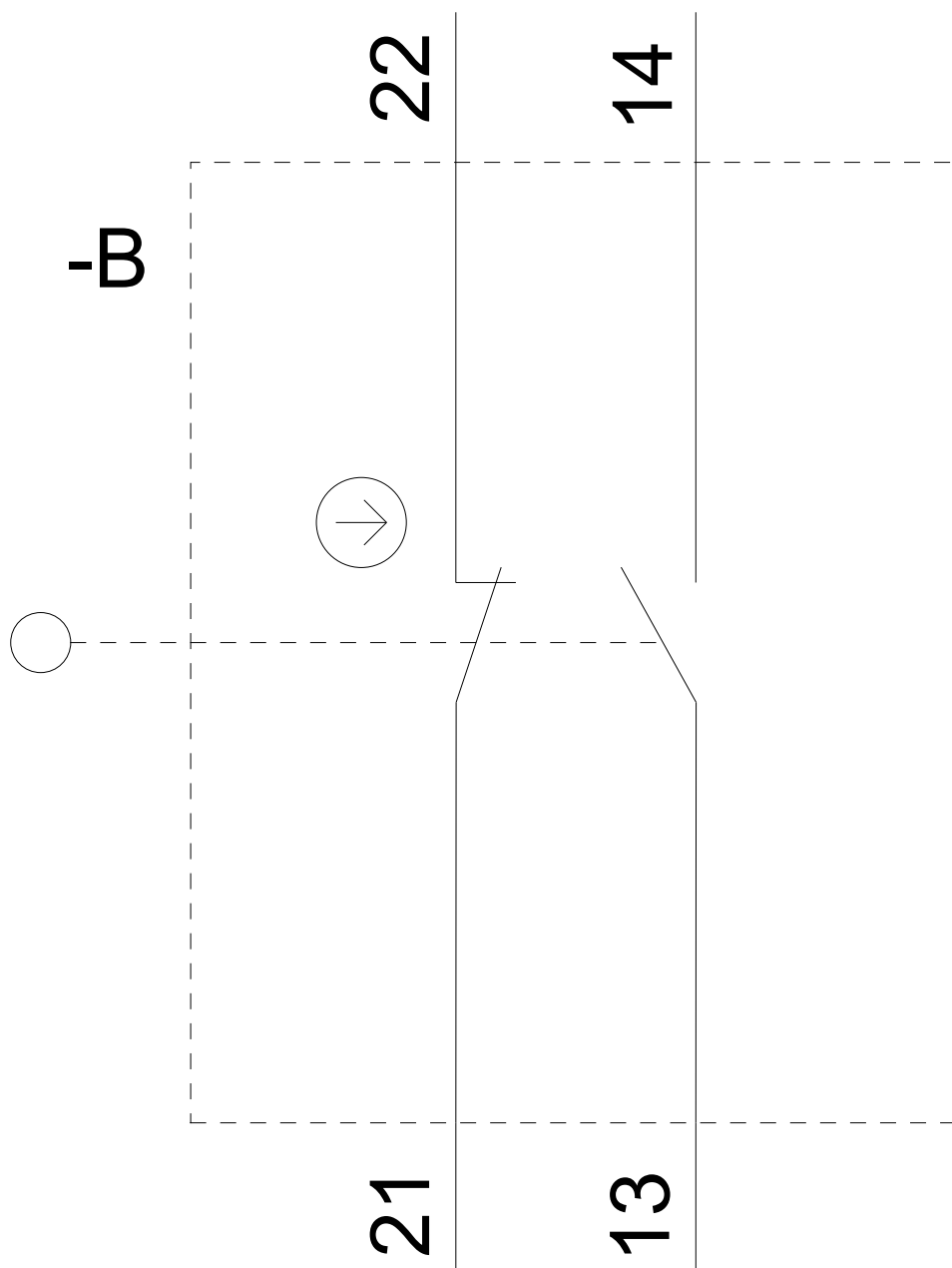
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

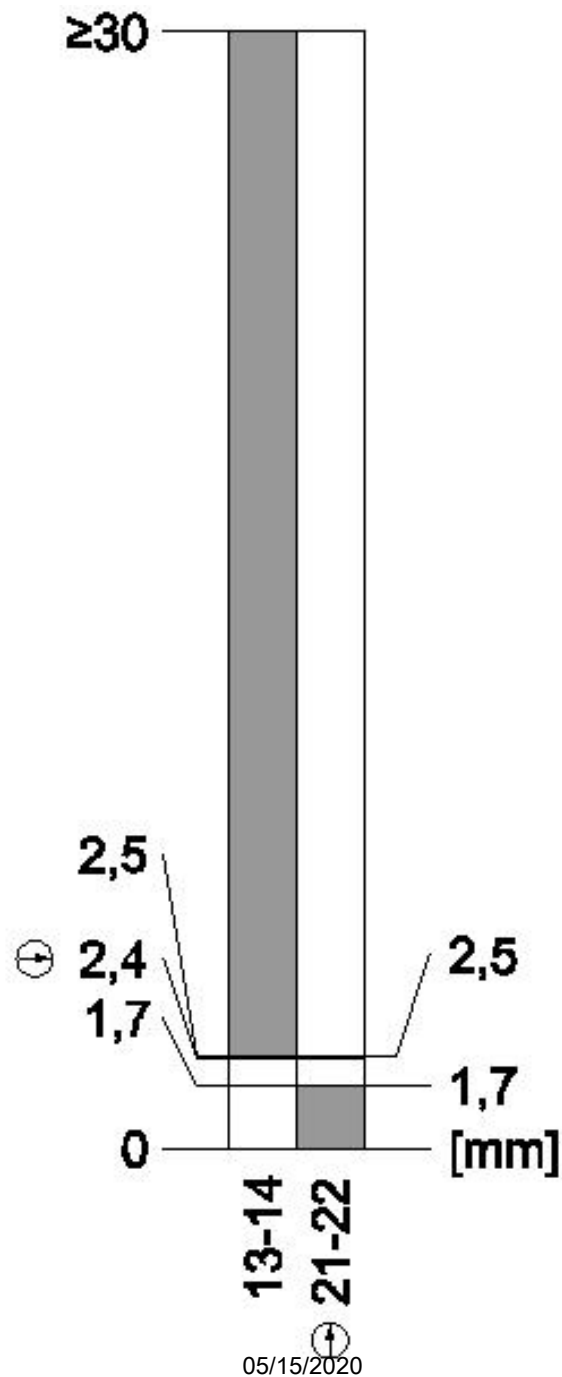
<https://support.industry.siemens.com/cs/ww/en/ps/3SE5212-0RV40>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SE5212-0RV40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5212-0RV40&lang=en)







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