

Circuit breaker size S0 for motor protection CLASS 10 A-release 9...12.5 A Short-circuit release 163 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2011-1KA10<<



Figure similar

|                       |                      |
|-----------------------|----------------------|
| Product brand name    | SIRIUS               |
| Product designation   | circuit breaker      |
| Design of the product | for motor protection |

| General technical data                        |             |
|-----------------------------------------------|-------------|
| Product extension                             |             |
| • Auxiliary switch                            | Yes         |
| Power loss [W] for rated value of the current |             |
| • at AC in hot operating state                | 9.25 W      |
| • at AC in hot operating state per pole       | 3.1 W       |
| Surge voltage resistance rated value          | 6 000 V     |
| Protection class IP                           |             |
| • on the front                                | IP20        |
| Shock resistance                              | 25g / 11 ms |
| Mechanical service life (switching cycles)    |             |
| • of the main contacts typical                | 100 000     |
| Continuous current rated value                | 12.5 A      |

| Ambient conditions |
|--------------------|
|--------------------|

|                                                                                   |                                                                                        |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Installation altitude at height above sea level</b>                            |                                                                                        |
| • maximum                                                                         | 2 000 m                                                                                |
| <b>Ambient temperature</b>                                                        |                                                                                        |
| • during operation                                                                | -20 ... +60 °C                                                                         |
| • during storage                                                                  | -50 ... +80 °C                                                                         |
| • during transport                                                                | -50 ... +80 °C                                                                         |
| <b>Main circuit</b>                                                               |                                                                                        |
| <b>Number of poles for main current circuit</b>                                   | 3                                                                                      |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 9 ... 12.5 A                                                                           |
| <b>Operating voltage</b>                                                          |                                                                                        |
| • rated value                                                                     | 690 V                                                                                  |
| • at AC-3 rated value maximum                                                     | 690 V                                                                                  |
| <b>Operating current</b>                                                          |                                                                                        |
| • at AC-3                                                                         |                                                                                        |
| — at 400 V rated value                                                            | 12.5 A                                                                                 |
| <b>Operating power</b>                                                            |                                                                                        |
| • at AC-3                                                                         |                                                                                        |
| — at 400 V rated value                                                            | 5.5 kW                                                                                 |
| <b>Operating frequency</b>                                                        |                                                                                        |
| • at AC-3 maximum                                                                 | 15 1/h                                                                                 |
| <b>Auxiliary circuit</b>                                                          |                                                                                        |
| <b>Number of CO contacts</b>                                                      |                                                                                        |
| • for auxiliary contacts                                                          | 0                                                                                      |
| <b>Protective and monitoring functions</b>                                        |                                                                                        |
| <b>Product function</b>                                                           |                                                                                        |
| • Ground fault detection                                                          | No                                                                                     |
| • Phase failure detection                                                         | Yes                                                                                    |
| <b>Trip class</b>                                                                 | CLASS 10                                                                               |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>                      |                                                                                        |
| • at AC at 240 V rated value                                                      | 100 kA                                                                                 |
| • at AC at 400 V rated value                                                      | 100 kA                                                                                 |
| • at AC at 500 V rated value                                                      | 42 kA                                                                                  |
| • at AC at 690 V rated value                                                      | 6 kA                                                                                   |
| <b>Short-circuit protection</b>                                                   |                                                                                        |
| <b>Design of the overcurrent release and short-circuit release</b>                | thermomagnetic                                                                         |
| <b>Installation/ mounting/ dimensions</b>                                         |                                                                                        |
| <b>Mounting position</b>                                                          | any                                                                                    |
| <b>Mounting type</b>                                                              | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |

|                              |       |
|------------------------------|-------|
| Height                       | 97 mm |
| Width                        | 45 mm |
| Depth                        | 96 mm |
| Required spacing             |       |
| • with side-by-side mounting |       |
| — Backwards                  | 0 mm  |
| — at the side                | 0 mm  |

## Connections/ Terminals

|                                                               |                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------|
| Product function                                              | No                                                               |
| • removable terminal for auxiliary and control circuit        |                                                                  |
| Type of electrical connection                                 |                                                                  |
| • for main current circuit                                    | screw-type terminals                                             |
| • for auxiliary and control current circuit                   | screw-type terminals                                             |
| Arrangement of electrical connectors for main current circuit | front side                                                       |
| Type of connectable conductor cross-sections                  |                                                                  |
| • for main contacts                                           |                                                                  |
| — solid                                                       | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| — stranded                                                    | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| — finely stranded with core end processing                    | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| • at AWG conductors for main contacts                         | 2x (14 ... 10)                                                   |

## Certificates/ approvals

| General Product Approval                                                                   | For use in hazardous locations                                                                 |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <br>CCC | <br>CSA     |
| <br>UL  | <br>EAC     |
|                                                                                            | <br>ATEX  |
|                                                                                            | <br>IECEx |

| Declaration of Conformity                                                                       | Test Certificates                                                                                                               | Marine / Shipping                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>EG-Konf. | <a href="#">Miscellaneous</a><br><a href="#">Special Test Certificate</a><br><a href="#">Type Test Certificates/Test Report</a> | <br>ABS<br><br>LRS |

| Marine / Shipping                                                                           | other                                                                                                                                                       | Railway                                  |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <br>RMRS | <a href="#">Miscellaneous</a><br><a href="#">Confirmation</a><br><br>VDE | <a href="#">Special Test Certificate</a> |

## 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=3RV1021-1KA10>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1021-1KA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-1KA10>

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

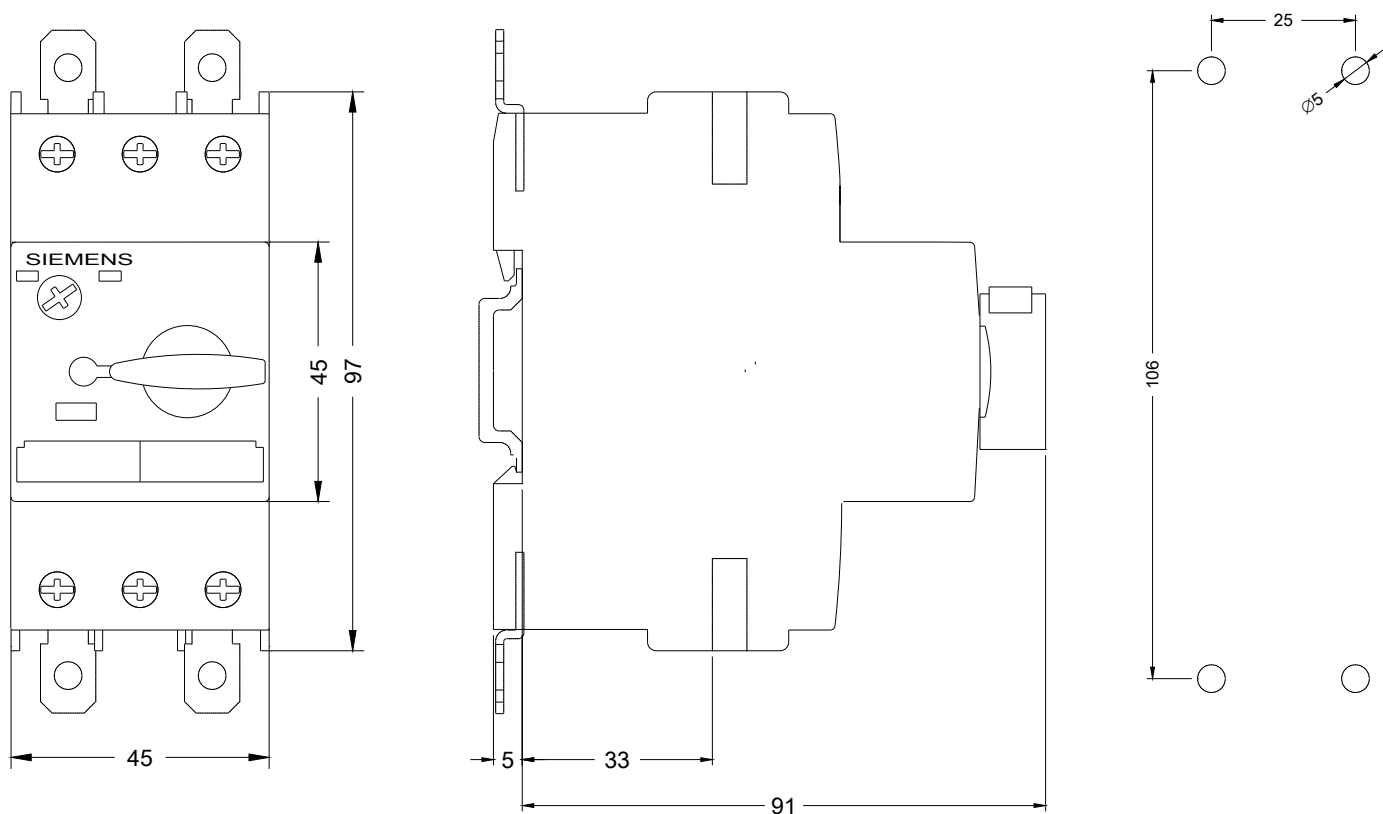
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1021-1KA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1021-1KA10&lang=en)

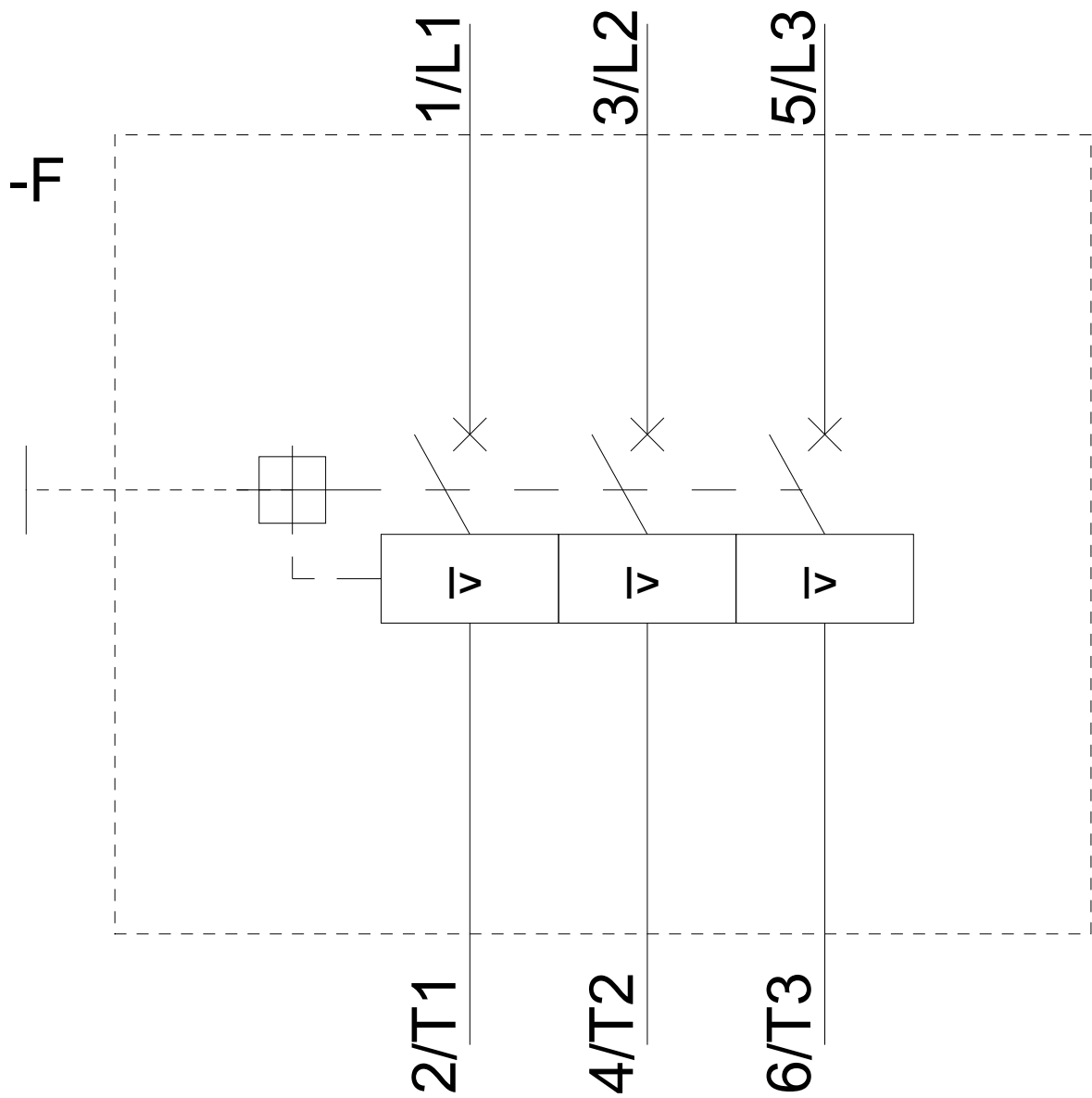
### Characteristic: Tripping characteristics, $I^2t$ , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-1KA10/char>

### Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1021-1KA10&objecttype=14&gridview=view1>





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