



Circuit breaker size S2 for motor protection, Class 10 A-release  
14...20 A Short-circuit release 260 A Screw terminal Standard  
switching capacity !!! Phased-out product !!! Successor is SIRIUS  
3RV2 Preferred successor type is >>3RV2031-4BA10<<

|                       |                      |
|-----------------------|----------------------|
| 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] total typical               | 12 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             | 50 000      |
| Continuous current rated value             | 20 A        |

### Ambient conditions

|                                                 |         |
|-------------------------------------------------|---------|
| Installation altitude at height above sea level |         |
| • maximum                                       | 2 000 m |
| Ambient temperature                             |         |

|                    |                |
|--------------------|----------------|
| • during operation | -20 ... +60 °C |
| • during storage   | -50 ... +80 °C |
| • during transport | -50 ... +80 °C |

#### Main circuit

|                                                                                   |             |
|-----------------------------------------------------------------------------------|-------------|
| <b>Number of poles for main current circuit</b>                                   | 3           |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 14 ... 20 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                                                            | 20 A        |
| <b>Operating power</b>                                                            |             |
| • at AC-3                                                                         |             |
| — at 400 V rated value                                                            | 7.5 kW      |
| <b>Operating frequency</b>                                                        |             |
| • at AC-3 maximum                                                                 | 15 1/h      |

#### Auxiliary circuit

|                              |   |
|------------------------------|---|
| <b>Number of CO contacts</b> |   |
| • for auxiliary contacts     | 0 |

#### Protective and monitoring functions

|                                                              |          |
|--------------------------------------------------------------|----------|
| <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                                 | 50 kA    |
| • at AC at 500 V rated value                                 | 12 kA    |
| • at AC at 690 V rated value                                 | 5 kA     |

#### Short-circuit protection

|                                                                    |                |
|--------------------------------------------------------------------|----------------|
| <b>Design of the overcurrent release and short-circuit release</b> | thermomagnetic |
|--------------------------------------------------------------------|----------------|

#### Installation/ mounting/ dimensions

|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| <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 |
| <b>Height</b>            | 140 mm                                                                                 |
| <b>Width</b>             | 55 mm                                                                                  |
| <b>Depth</b>             | 149 mm                                                                                 |

|                                                                                                                                                                                              |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— Backwards</li> <li>— at the side</li> </ul> </li> </ul> | 0 mm<br>0 mm |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|

## Connections/Terminals

|                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product function</b> <ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>                                                                                                                                                                            | No                                                                                                                                                                                                          |
| <b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                      | screw-type terminals with box terminals<br>screw-type terminals                                                                                                                                             |
| <b>Arrangement of electrical connectors for main current circuit</b>                                                                                                                                                                                                                                        | front side                                                                                                                                                                                                  |
| <b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for main contacts</li> </ul> | 2x (0.75 ... 16 mm <sup>2</sup> )<br>2x (0.75 ... 25 mm <sup>2</sup> ), 1x (0.75 ... 35 mm <sup>2</sup> )<br>2x (0.75 ... 16 mm <sup>2</sup> ), 0.75 ... 25 mm <sup>2</sup><br>2x (18 ... 2), 1x (18 ... 2) |

## 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>BUREAU VERITAS |

| Marine / Shipping                                                                                                                                                                                                                                                                                    | other                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>LRS <br>RMRS <br>DNV-GL<br>DNVGL.COM/AF | <a href="#">Confirmation</a> <a href="#">Miscellaneous</a> <br>VDE |

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)  
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1031-4BA10>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4BA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4BA10>

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

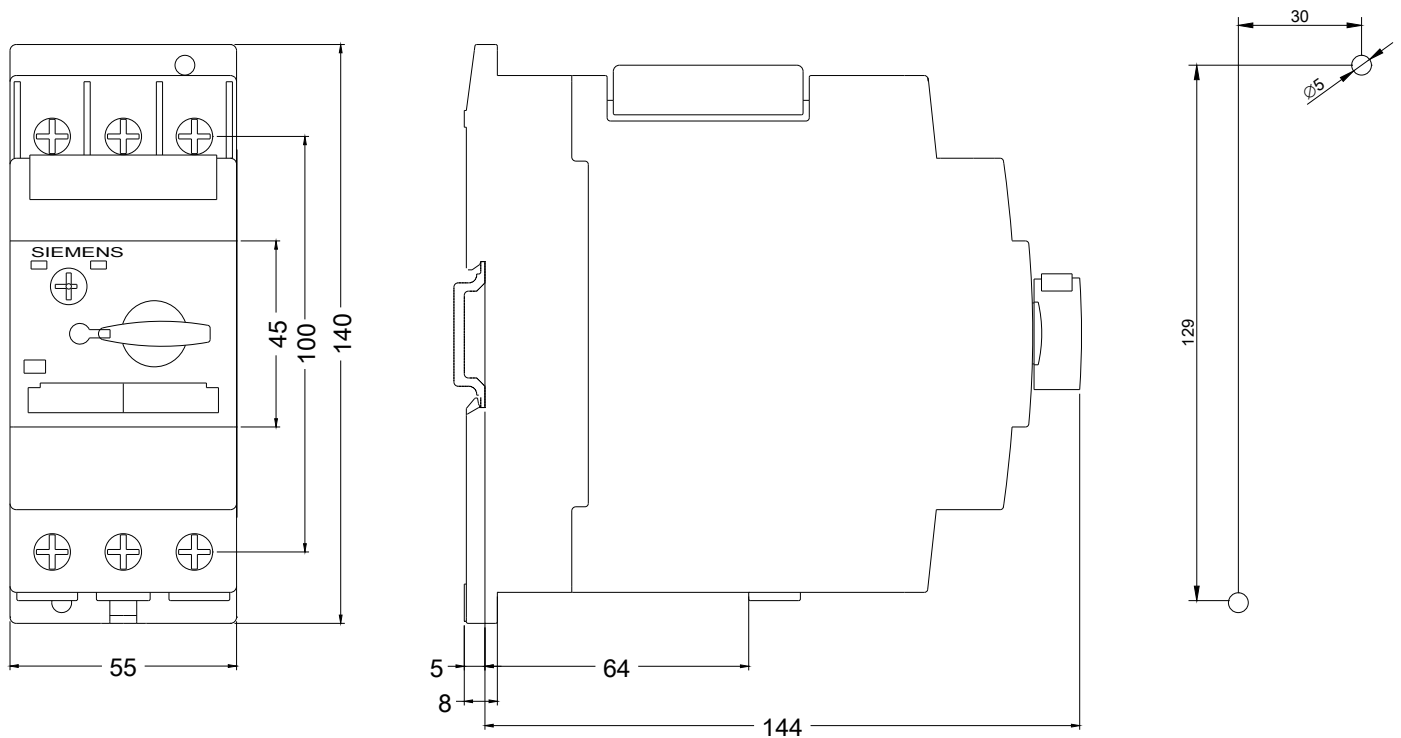
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1031-4BA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4BA10&lang=en)

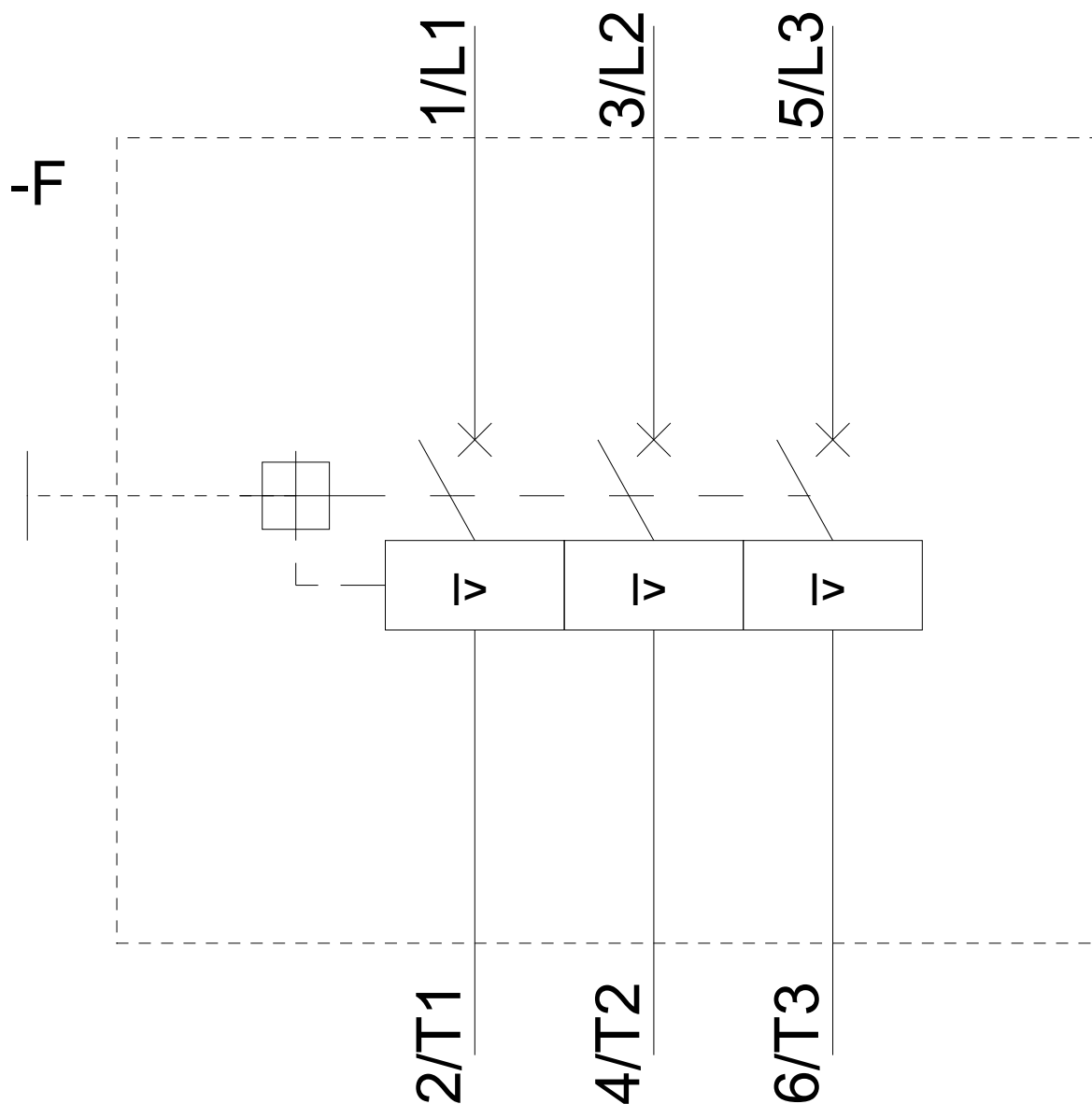
**Characteristic: Tripping characteristics,  $I^2t$ , Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4BA10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4BA10&objecttype=14&gridview=view1>





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