

CIRCUIT-BREAKER, SIZE S2, FOR MOTOR PROTECTION,  
CLASS 10, A-RES. 36...45 A, N-RES. 540 A, 1 NO + 1 NC  
TRANSVERSE, SCREW CONNECTION, STANDARD SWITCHING  
CAPACITY



Figure similar

|                       |                      |
|-----------------------|----------------------|
| product brandname     | 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               | 20 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      |

| 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> | 36 ... 45 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                                                            | 45 A        |
| <b>Operating power</b>                                                            |             |
| • at AC-3                                                                         |             |
| — at 400 V rated value                                                            | 22 kW       |
| <b>Operating frequency</b>                                                        |             |
| • at AC-3 maximum                                                                 | 15 1/h      |

#### Auxiliary circuit

|                                                         |            |
|---------------------------------------------------------|------------|
| <b>Design of the auxiliary switch</b>                   | transverse |
| <b>Number of CO contacts</b>                            |            |
| • for auxiliary contacts                                | 0          |
| <b>Operating current of auxiliary contacts at AC-15</b> |            |
| • at 24 V                                               | 2 A        |
| • at 230 V                                              | 0.5 A      |
| <b>Operating current of auxiliary contacts at DC-13</b> |            |
| • at 24 V                                               | 1 A        |
| • at 60 V                                               | 0.15 A     |

#### Protective and monitoring functions

|                                                              |          |
|--------------------------------------------------------------|----------|
| <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                                 | 10 kA    |
| • at AC at 690 V rated value                                 | 4 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) |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                                     |                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for auxiliary contacts</li> </ul>           | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (18 ... 14)                                            |

## Certificates/approvals

| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|
|--------------------------|--------------------------------|



CCC



CSA



UL



ATEX



IECEX

| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



EG-Konf.

[spezielle  
Prüfbescheinigung  
n](#)



ABS



DNV



GL

| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



RMRS

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VDE

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1031-4GA15>

### Cax online generator

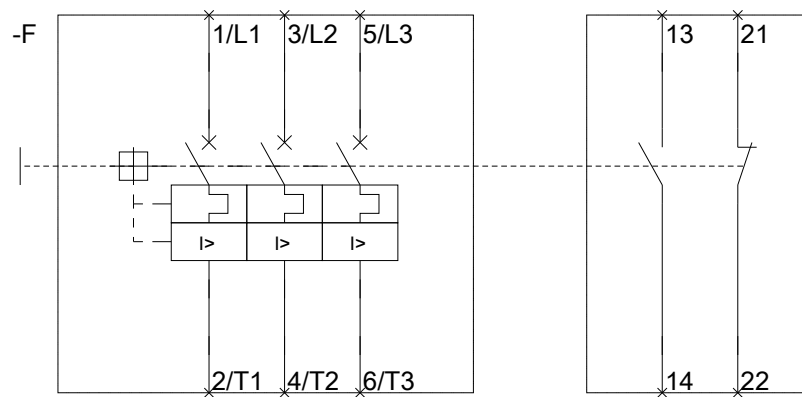
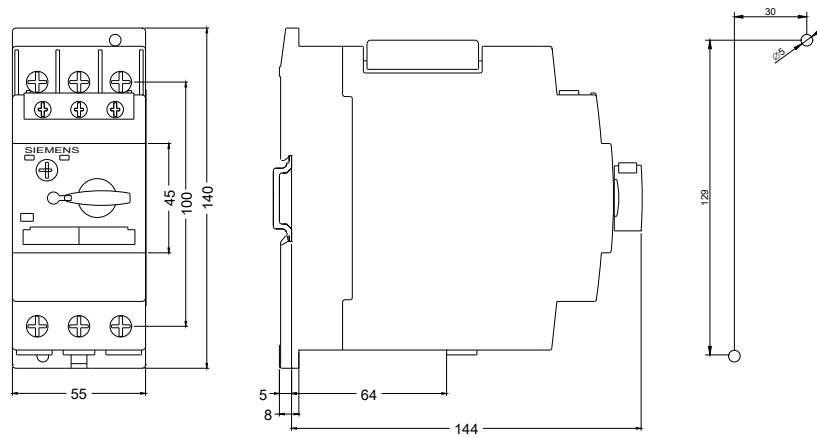
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4GA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4GA15>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1031-4GA15&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4GA15&lang=en)



last modified:

10/19/2016