



Circuit breaker size S2 for motor protection, Class 10 A-release 28...40 A  
Short-circuit release 520 A Screw terminal Standard switching capacity !!!  
Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor  
type is >>3RV2031-4UA10<<

|  |                      |
|--|----------------------|
| <b>product brand name</b>  | SIRIUS               |
| <b>product designation</b>   | circuit breaker      |
| <b>design of the product</b>   | for motor protection |
| <b>General technical data</b>  |                      |
| product extension auxiliary switch   | Yes                  |
| <b>power loss [W] for rated value of the current</b>                                       |                      |
| • at AC in hot operating state   | 29 W                 |
| • at AC in hot operating state per pole  | 9.7 W                |
| <b>surge voltage resistance rated value</b>  | 6 000 V              |
| protection class IP on the front   | IP20                 |
| <b>shock resistance</b>  | 25g / 11 ms          |
| mechanical service life (switching cycles) of the main contacts typical                    | 50 000               |
| <b>continuous current rated value</b>  | 40 A                 |
| Substance Prohibitance (Date)  | 01.07.2006 00:00:00  |
| <b>Ambient conditions</b>  |                      |
| installation altitude at height above sea level 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 current response value current of the current-dependent overload release</b> | 28 ... 40 A          |
| <b>operating voltage</b>   |                      |
| • rated value  | 690 V                |
| • at AC-3 rated value maximum  | 690 V                |
| operational current at AC-3 at 400 V rated value   | 40 A                 |
| operating power at AC-3  |                      |
| • at 400 V rated value   | 18.5 kW              |
| operating frequency at AC-3 maximum  | 15 1/h               |
| <b>Auxiliary circuit</b>   |                      |
| number of CO contacts 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>breaking capacity maximum short-circuit current (Icu)</b>  |   |
| <ul style="list-style-type: none"> <li>• at AC at 240 V rated value</li> <li>• at AC at 400 V rated value</li> <li>• at AC at 500 V rated value</li> <li>• at AC at 690 V rated value</li> </ul>  | 100 kA<br>50 kA<br>10 kA<br>4 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>fastening method</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  |
| required spacing with side-by-side mounting   |   |
| <ul style="list-style-type: none"> <li>• backwards</li> <li>• at the side</li> </ul>  | 0 mm<br>0 mm  |
| <b>Connections/ Terminals</b>   |   |
| product component removable terminal for auxiliary and control circuit  | No  |
| <b>type of electrical connection</b>  |   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control 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 cables 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>Safety related data</b>  |   |
| <b>touch protection against electrical shock</b>  | finger-safe   |
| <b>Certificates/ approvals</b>  |   |
| <b>General Product Approval</b>   | <b>For use in hazardous locations</b>   |



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**Marine / Shipping**



**other**

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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=3RV1031-4FA10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4FA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4FA10>

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

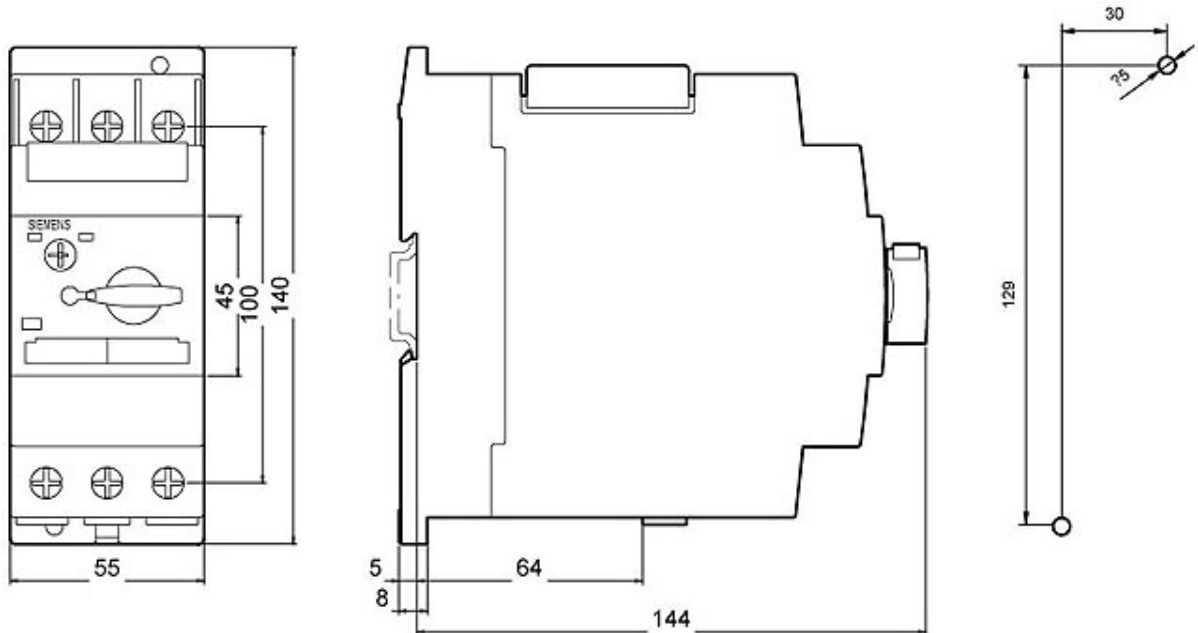
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1031-4FA10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4FA10&lang=en)

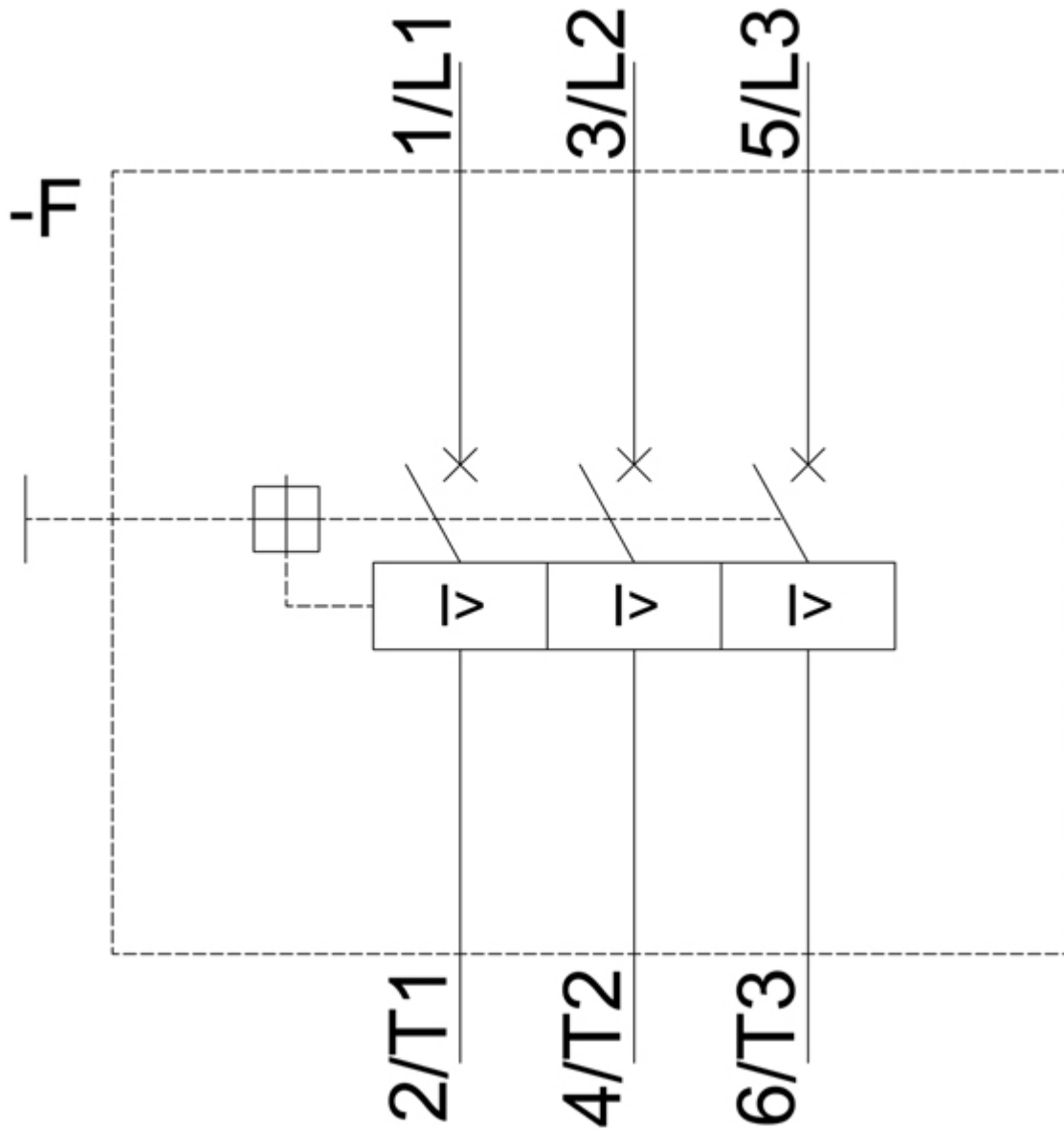
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4FA10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1031-4FA10&objecttype=14&gridview=view1>





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