

CIRCUIT-BREAKER, SIZE S3, FOR THE PLANT PROTECTION, WITH APPROBATION CIRC.-BREAKER UL 489, CSA C22.2 NO.5-02, A-TRIGGER 35 A, N-TRIGGER 455 A, SCREW CONNECTION, STANDARD SWITCHING CAPACITY



Figure similar

|                       |  |
|-----------------------|--|
| product brand name    | SIRIUS   |
| Product designation   | circuit breaker  |
| Design of the product | for plant protection according to UL 489/CSA C22.2 No.5-02 |

General technical data:

|   |             |
|---|-------------|
| <b>Product extension</b>                          |             |
| • Auxiliary switch                                | Yes         |
| <b>Power loss [W] total typical</b>               | 12 W        |
| <b>Surge voltage resistance rated value</b>       | 6 000 V     |
| <b>Protection class IP</b>                        |             |
| • on the front                                    | IP20        |
| <b>Shock resistance</b>                           | 25g / 11 ms |
| <b>Mechanical service life (switching cycles)</b> |             |
| • of the main contacts typical                    | 50 000      |

Ambient conditions:

|  |                |
|--|----------------|
| <b>Installation altitude at height above sea level maximum</b> | 2 000 m        |
| <b>Ambient temperature</b>                                     |                |
| • during operation   | -20 ... +60 °C |
| • during storage   | -50 ... +80 °C |

- during transport

-50 ... +80 °C

#### Main circuit:

|   |                           |
|---|---------------------------|
| <b>Adjustable pick-up value current of the current-dependent overload release</b>   | 35 ... 35 A               |
| <b>Operating voltage</b>  |                           |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>  | <p>690 V</p> <p>690 V</p> |
| <b>Operating current</b>  |                           |
| <ul style="list-style-type: none"> <li>• at AC-3           <ul style="list-style-type: none"> <li>— at 400 V rated value</li> </ul> </li> </ul> | 35 A                      |
| <b>Operating frequency</b>  |                           |
| <ul style="list-style-type: none"> <li>• at AC-3 maximum</li> </ul>   | 15 1/h                    |

#### Auxiliary circuit:

|  |   |
|--|---|
| <b>Number of CO contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul> | 0 |

#### Protective and monitoring functions:

|  |  |
|--|--|
| <b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>)</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 480 AC Y/277 V acc. to UL 489 rated value</li> </ul> | <p>100 kA</p> <p>100 kA</p> <p>65 kA</p> |

#### 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>  | 168 mm   |
| <b>Width</b>   | 70 mm  |
| <b>Depth</b>   | 174 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> | <p>0 mm</p> <p>0 mm</p>  |

#### 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> </ul>                             | screw-type terminals with box terminals |

|  |  |
|--|--|
| • for auxiliary and control current circuit                          | screw-type terminals   |
| <b>Arrangement of electrical connectors for main current circuit</b> | front side   |
| <b>Type of connectable conductor cross-sections</b>                  |  |
| • for main contacts  |  |
| — solid  | 2x (2.5 ... 16 mm <sup>2</sup> )                                 |
| — stranded   | 2x (10 ... 50 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> ) |
| — finely stranded with core end processing                           | 2x (2.5 ... 35 mm <sup>2</sup> ), 2.5 ... 50 mm <sup>2</sup>     |
| • at AWG conductors for main contacts                                | 2x (10 ... 1), 1x (10 ... 2)                                     |

## Certificates/approvals

| General Product Approval   | Declaration of Conformity   | Test Certificates                                  |
|--|---|--|
| <br>CCC | <br>EAC        | <a href="#">spezielle Prüfbescheinigungen</a><br>n |
| <br>CSA | <br>EG-Konf. |  |
| <br>UL  |   |  |

| Shipping Approval  | other   |
|--|---|
| <br>ABS  | <a href="#">sonstig</a>   |
| <br>RMRS | <a href="#">Bestätigungen</a>   |
|  | <a href="#">Umweltbestätigung</a>   |
|  | <br>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=3RV17425FD10>

### Cax online generator

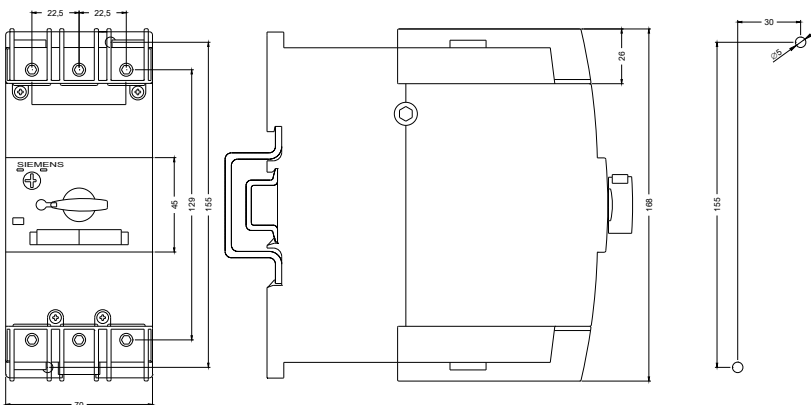
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV17425FD10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV17425FD10>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV17425FD10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV17425FD10&lang=en)



last modified:

19.03.2016