



CIRCUIT-BREAKER, SIZE S3, FOR THE PLANT PROTECTION, WITH APPROBATION CIRC.-BREAKER UL 489, CSA C22.2 NO.5-02, A-TRIGGER 20 A, N-TRIGGER 260 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:

|                                            |   |             |
|--------------------------------------------|---|-------------|
| Active power loss total typical            | W | 12          |
| Shock resistance                           |   | 25g / 11 ms |
| Surge voltage resistance Rated value       | V | 6 000       |
| Mechanical service life (switching cycles) |   |             |
| • of the main contacts typical             |   | 50 000      |
| Protection class IP                        |   |             |
| • on the front                             |   | IP20        |
| Equipment marking                          |   |             |
| • acc. to DIN EN 61346-2                   |   | Q           |

### Main circuit:

|                                                                             |   |           |
|-----------------------------------------------------------------------------|---|-----------|
| Number of poles for main current circuit                                    |   | 3         |
| Adjustable response value current of the current-dependent overload release | A | 20 ... 20 |
| Operating voltage                                                           |   |           |
| • Rated value                                                               | V | 690       |
| • at AC-3 Rated value maximum                                               | V | 690       |
| Operating current                                                           |   |           |
| • at AC-3                                                                   |   |           |
| — at 400 V Rated value                                                      | A | 20        |
| Operating frequency                                                         |   |           |

- at AC-3 maximum

|     |    |
|-----|----|
| 1/h | 15 |
|-----|----|

#### Auxiliary circuit:

|                                           |  |     |
|-------------------------------------------|--|-----|
| <b>Number of CO contacts</b>              |  |     |
| • for auxiliary contacts                  |  | 0   |
| <b>Product expansion Auxiliary switch</b> |  | Yes |

#### Protective and monitoring functions:

|                                                              |    |     |
|--------------------------------------------------------------|----|-----|
| <b>Maximum short-circuit current breaking capacity (Icu)</b> |    |     |
| • with AC at 240 V Rated value                               | kA | 100 |
| • with AC at 400 V Rated value                               | kA | 100 |
| • with AC at 500 V Rated value                               | kA | 30  |
| • with AC at 690 V Rated value                               | kA | 12  |
| • at 480 AC Y/277 V acc. to UL 489 Rated value               | kA | 65  |

#### Short-circuit:

|                                                                    |  |                |
|--------------------------------------------------------------------|--|----------------|
| <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>                | mm | 168                                                                                    |
| <b>Width</b>                 | mm | 70                                                                                     |
| <b>Depth</b>                 | mm | 174                                                                                    |
| <b>Required spacing</b>      |    |                                                                                        |
| • with side-by-side mounting |    |                                                                                        |
| — Backwards                  | mm | 0                                                                                      |
| — at the side                | mm | 0                                                                                      |

#### Connections/ Terminals:

|                                                                      |  |                                                                  |
|----------------------------------------------------------------------|--|------------------------------------------------------------------|
| <b>Type of electrical connection</b>                                 |  |                                                                  |
| • for main current circuit                                           |  | 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>Product function</b>                                              |  |                                                                  |
| • removable terminal for auxiliary and control circuit               |  | No                                                               |
| <b>Type of connectable conductor cross-section</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>     |
| • for AWG conductors for main contacts                               |  | 2x (10 ... 1), 1x (10 ... 2)                                     |

#### Safety related data:

|                                     |             |
|-------------------------------------|-------------|
| Protection against electrical shock | finger-safe |
|-------------------------------------|-------------|

#### Mechanical data:

|                             |    |
|-----------------------------|----|
| Size of the circuit-breaker | S3 |
|-----------------------------|----|

#### Ambient conditions:

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

#### Certificates/ approvals:

| General Product Approval                                                                 | Test Certificates                                                                        | Shipping Approval                                                                          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <br>CCC | <br>UL  | <br>ABS |
| <br>CSA | <br>EAC | <a href="#">Special Test Certificate</a>                                                   |

| Shipping Approval                                                                           | other                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>RMRS | <a href="#">other</a> <a href="#">Environmental Confirmations</a> <a href="#">Confirmation</a> <a href="#">Declaration of Conformity</a> <br>VDE |

#### Further information

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

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

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

##### Cax online generator

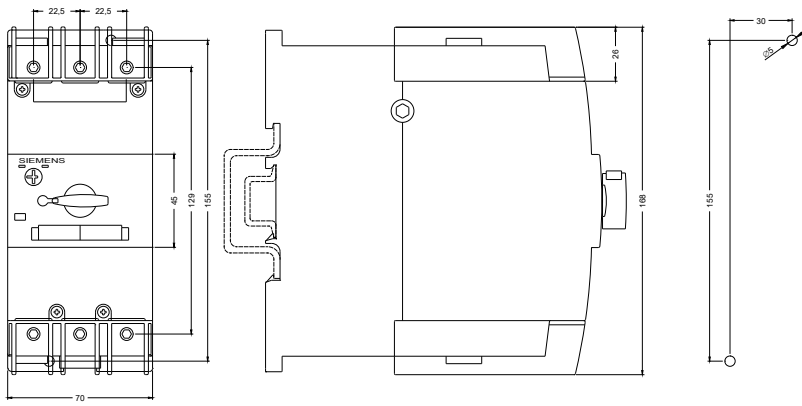
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV17425CD10>

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

<http://support.automation.siemens.com/WW/view/en/3RV17425CD10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV17425CD10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV17425CD10&lang=en)



last modified:

11.03.2015