

CIRCUIT-BREAKER, 90 A, N-RELEASE 1170 A, SIZE S3,  
STARTER PROTECTION, 100 KA, SCREW CONNECTION  
INCREASED BREAKING CAPACITY



Figure similar

|                       |                          |
|-----------------------|--------------------------|
| product brandname     | SIRIUS                   |
| Product designation   | circuit breaker          |
| Design of the product | for starter combinations |

| General technical data                     |             |
|--------------------------------------------|-------------|
| Product extension                          |             |
| • Auxiliary switch                         | Yes         |
| Power loss [W] total typical               | 30 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>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                          | 90 A   |
| <b>Operating power</b>                          |        |
| • at AC-3                                       |        |
| — at 400 V rated value                          | 45 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>Maximum short-circuit current breaking capacity (Icu)</b> |        |
| • at AC at 240 V rated value                                 | 100 kA |
| • at AC at 400 V rated value                                 | 100 kA |
| • at AC at 500 V rated value                                 | 10 kA  |
| • at AC at 690 V rated value                                 | 6 kA   |

#### Short-circuit protection

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

#### 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>                | 165 mm                                                                                 |
| <b>Width</b>                 | 70 mm                                                                                  |
| <b>Depth</b>                 | 174 mm                                                                                 |
| <b>Required spacing</b>      |                                                                                        |
| • with side-by-side mounting |                                                                                        |
| — Backwards                  | 0 mm                                                                                   |
| — at the side                | 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 (2.5 ... 16 mm <sup>2</sup> )<br>2x (10 ... 50 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> )<br>2x (2.5 ... 35 mm <sup>2</sup> ), 2.5 ... 50 mm <sup>2</sup><br>2x (10 ... 1), 1x (10 ... 2) |

#### Certificates/approvals

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

| Shipping Approval                                                                                     | other                         |
|-------------------------------------------------------------------------------------------------------|-------------------------------|
| <br>ABS            | <a href="#">Bestätigungen</a> |
| <br>BUREAU VERITAS |                               |
| <br>DNV            |                               |
| <br>GL             |                               |
| <br>RMRS         |                               |

| other                                                                                      |
|--------------------------------------------------------------------------------------------|
| <a href="#">sonstig</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)

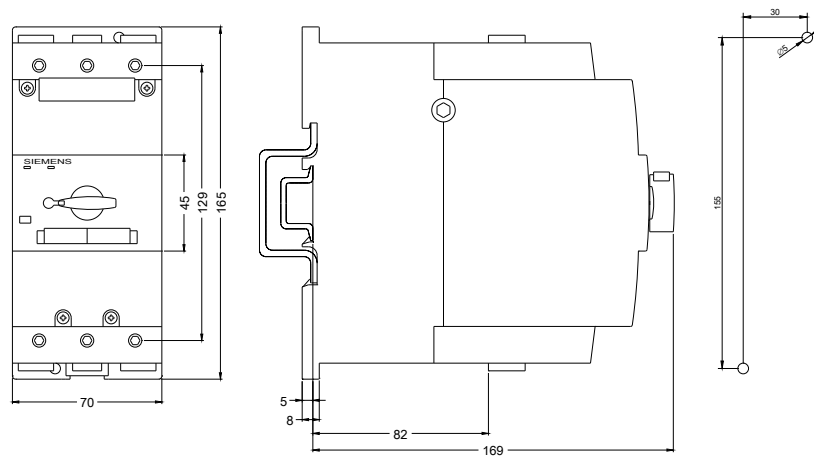
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1342-4LC10>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1342-4LC10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1342-4LC10>



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