

CIRCUIT-BREAKER FOR VOLTAGE TRANSFORMER, 1CO, S00, 3A



Figure similar

|                                                                           |                 |
|---------------------------------------------------------------------------|-----------------|
| product brandname                                                         | SIRIUS          |
| Product designation                                                       | Circuit breaker |
| <b>General technical data</b>                                             |                 |
| Size of the circuit-breaker                                               | S00             |
| Product extension                                                         |                 |
| • Auxiliary switch                                                        | Yes             |
| Power loss [W] total typical                                              | 6 W             |
| Insulation voltage with degree of pollution 3 rated value                 | 690 V           |
| Surge voltage resistance rated value                                      | 6 kV            |
| maximum permissible voltage for safe isolation                            |                 |
| • in networks with grounded star point between main and auxiliary circuit | 400 V           |
| • in networks with grounded star point between main and auxiliary circuit | 400 V           |
| Protection class IP                                                       |                 |
| • on the front                                                            | IP20            |
| • of the terminal                                                         | IP00            |

|                                                   |                  |
|---------------------------------------------------|------------------|
| <b>Mechanical service life (switching cycles)</b> |                  |
| • of the main contacts typical                    | 10 000           |
| • of auxiliary contacts typical                   | 10 000           |
| <b>Type of protection</b>                         | Increased safety |
| <b>Protection against electrical shock</b>        | finger-safe      |
| Equipment marking acc. to DIN EN 81346-2          | Q                |

|                                                                |                |
|----------------------------------------------------------------|----------------|
| <b>Ambient conditions</b>                                      |                |
| <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 |
| <b>Temperature compensation</b>                                | -20 ... +60 °C |
| <b>Relative humidity during operation</b>                      | 10 ... 95 %    |

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| <b>Main circuit</b>                                                               |           |
| <b>Number of poles for main current circuit</b>                                   | 3         |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 3 ... 3 A |
| <b>Operating voltage</b>                                                          |           |
| • rated value                                                                     | 400 V     |
| • at AC-3 rated value maximum                                                     | 400 V     |
| <b>Operating frequency rated value</b>                                            | 60 Hz     |
| <b>Operating current rated value</b>                                              | 3 A       |
| <b>Operating frequency</b>                                                        |           |
| • at AC-3 maximum                                                                 | 15 1/h    |

|                                                         |                        |
|---------------------------------------------------------|------------------------|
| <b>Auxiliary circuit</b>                                |                        |
| <b>Design of the auxiliary switch</b>                   | integrated, transverse |
| <b>Number of NC contacts</b>                            |                        |
| • for auxiliary contacts                                | 1                      |
| — Note                                                  | 1                      |
| <b>Number of NO contacts</b>                            |                        |
| • for auxiliary contacts                                | 1                      |
| — Note                                                  | 1                      |
| <b>Number of CO contacts</b>                            |                        |
| • for auxiliary contacts                                | 1                      |
| <b>Operating current of auxiliary contacts at DC-13</b> |                        |
| • at 24 V                                               | 0.3 A                  |
| • at 60 V                                               | 0.3 A                  |

|                                            |         |
|--------------------------------------------|---------|
| <b>Protective and monitoring functions</b> |         |
| <b>Design of the overload release</b>      | thermal |

|                                                                                                                                                                                                                                            |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Operational short-circuit current breaking capacity (Ics) at AC</b>                                                                                                                                                                     |                                        |
| <ul style="list-style-type: none"> <li>• at 240 V rated value</li> <li>• at 400 V rated value</li> </ul>                                                                                                                                   | <p>100 000 A</p> <p>50 000 A</p>       |
| <b>Maximum short-circuit current breaking capacity (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> </ul>                                                                                                                       | <p>100 kA</p> <p>50 kA</p>             |
| <b>Breaking capacity short-circuit current (Icn)</b>                                                                                                                                                                                       |                                        |
| <ul style="list-style-type: none"> <li>• at 1 current path at DC at 150 V rated value</li> <li>• with 2 current paths in series at DC at 300 V rated value</li> <li>• with 3 current paths in series at DC at 450 V rated value</li> </ul> | <p>10 kA</p> <p>10 kA</p> <p>10 kA</p> |

### UL/CSA ratings

|                                                                                                          |                       |
|----------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Full-load current (FLA) for three-phase AC motor</b>                                                  |                       |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> <li>• at 600 V rated value</li> </ul> | <p>3 A</p> <p>3 A</p> |

### Short-circuit protection

|                                                                                                                          |                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Product function Short circuit protection</b>                                                                         | Yes                                                                        |
| <b>Design of the short-circuit trip</b>                                                                                  | magnetic                                                                   |
| <b>Design of the fuse link</b>                                                                                           |                                                                            |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>        | 2A FF 250V/1.1kA                                                           |
| <b>Design of the fuse link for IT network for short-circuit protection of the main circuit</b>                           |                                                                            |
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 400 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | <p>none required</p> <p>gL/gG 40 A</p> <p>gL/gG 35 A</p> <p>gL/gG 35 A</p> |

### 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 60715 |
| <b>Height</b>            | 90 mm                                                                                  |
| <b>Width</b>             | 45 mm                                                                                  |
| <b>Depth</b>             | 75 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> </ul>                             | screw-type terminals |

|                                                                      |                                                                                                      |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| • for auxiliary and control current circuit                          | screw-type terminals                                                                                 |
| <b>Arrangement of electrical connectors for main current circuit</b> | Top and bottom                                                                                       |
| <b>Type of connectable conductor cross-sections</b>                  |                                                                                                      |
| • for main contacts                                                  |                                                                                                      |
| — single or multi-stranded                                           | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x (1 ... 4 mm <sup>2</sup> ) |
| — finely stranded with core end processing                           | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )                                |
| <b>Type of connectable conductor cross-sections</b>                  |                                                                                                      |
| • for auxiliary contacts                                             |                                                                                                      |
| — single or multi-stranded                                           | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )                                |
| <b>Tightening torque</b>                                             |                                                                                                      |
| • for main contacts with screw-type terminals                        | 0.8 ... 1.2 N·m                                                                                      |
| • for auxiliary contacts with screw-type terminals                   | 0.8 ... 1.2 N·m                                                                                      |
| <b>Design of the thread of the connection screw</b>                  |                                                                                                      |
| • for main contacts                                                  | M3                                                                                                   |
| • of the auxiliary and control contacts                              | M3                                                                                                   |
| <b>Display version</b>                                               |                                                                                                      |
| • for switching status                                               | Rocker switch                                                                                        |

### Certificates/approvals

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

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

| other                                                                                      |
|--------------------------------------------------------------------------------------------|
| <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=3RV1611-1DG14>

**Cax online generator**

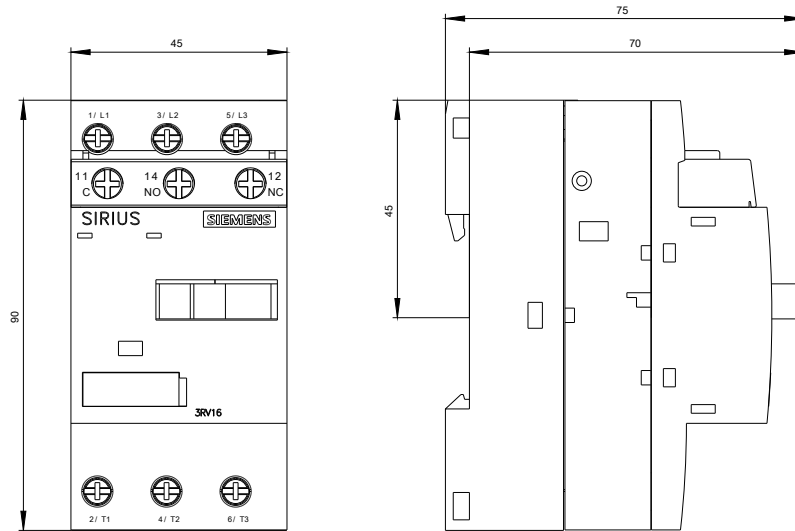
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1611-1DG14>

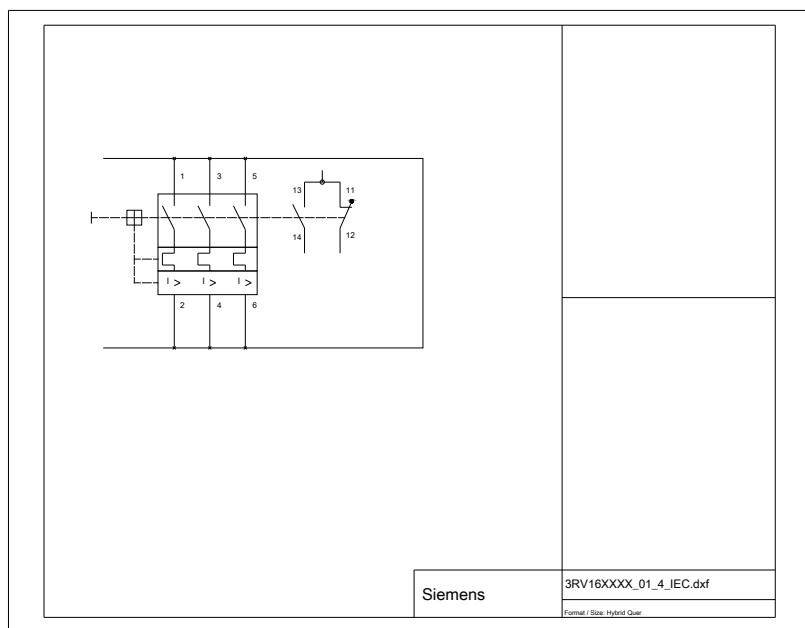
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1611-1DG14>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1611-1DG14&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1611-1DG14&lang=en)





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