

CIRCUIT-BREAKER, 7...10 A, N-RELEASE 130 A, SIZE S00,  
MOTOR PROTECTION, CLASS 10, SCREW CONNECTION  
STANDARD BREAKING CAPACITY MULTI-UNIT PACKING  
PACKING = 12 ITEMS



Figure similar

|                                                                           |                      |
|---------------------------------------------------------------------------|----------------------|
| product brand name                                                        | SIRIUS               |
| Product designation                                                       | Circuit breaker      |
| Design of the product                                                     | For motor protection |
| General technical data                                                    |                      |
| Size of the circuit-breaker                                               | S00                  |
| Size of contactor can be combined company-specific                        | S00                  |
| Product extension                                                         |                      |
| • Auxiliary switch                                                        | Yes                  |
| Power loss [W] total typical                                              | 7 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                                                       |                      |

|                                                                                                                           |                    |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|
| <ul style="list-style-type: none"> <li>• on the front</li> <li>• of the terminal</li> </ul>                               | IP20<br>IP00       |
| <b>Mechanical service life (switching cycles)</b>                                                                         |                    |
| <ul style="list-style-type: none"> <li>• of the main contacts typical</li> <li>• of auxiliary contacts typical</li> </ul> | 100 000<br>100 000 |
| <b>Electrical endurance (switching cycles)</b>                                                                            |                    |
| <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                               | 100 000            |
| <b>Type of protection</b>                                                                                                 | Increased safety   |
| <b>Protection against electrical shock</b>                                                                                | finger-safe        |
| Equipment marking acc. to DIN EN 81346-2                                                                                  | Q                  |

#### Ambient conditions

|                                                                                                                            |                                                    |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Installation altitude at height above sea level maximum</b>                                                             | 2 000 m                                            |
| <b>Ambient temperature</b>                                                                                                 |                                                    |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | -20 ... +60 °C<br>-50 ... +80 °C<br>-50 ... +80 °C |
| <b>Temperature compensation</b>                                                                                            | -20 ... +60 °C                                     |
| <b>Relative humidity during operation</b>                                                                                  | 10 ... 95 %                                        |

#### Main circuit

|                                                                                                                                                                                                                                       |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Number of poles for main current circuit</b>                                                                                                                                                                                       | 3                                        |
| <b>Adjustable pick-up value current of the current-dependent overload release</b>                                                                                                                                                     | 7 ... 10 A                               |
| <b>Operating voltage</b>                                                                                                                                                                                                              |                                          |
| <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> </ul>                                                                                                                                | 690 V<br>690 V                           |
| <b>Operating frequency rated value</b>                                                                                                                                                                                                | 50 ... 60 Hz                             |
| <b>Operating current rated value</b>                                                                                                                                                                                                  | 10 A                                     |
| <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>                                                                                                 | 10 A                                     |
| <b>Operating power</b>                                                                                                                                                                                                                |                                          |
| <ul style="list-style-type: none"> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul> | 2 200 W<br>4 000 W<br>5 500 W<br>7 500 W |
| <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> |  |
|------------------------------|--|

- for auxiliary contacts

0

## Protective and monitoring functions

|                                                                                                               |           |
|---------------------------------------------------------------------------------------------------------------|-----------|
| <b>Trip class</b>                                                                                             | CLASS 10  |
| <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> </ul>                                      | 100 000 A |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                      | 12 500 A  |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>                                      | 3 000 A   |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                      | 2 000 A   |
| <b>Maximum short-circuit current breaking capacity (Icu)</b>                                                  |           |
| <ul style="list-style-type: none"> <li>• at AC at 240 V rated value</li> </ul>                                | 100 kA    |
| <ul style="list-style-type: none"> <li>• at AC at 400 V rated value</li> </ul>                                | 50 kA     |
| <ul style="list-style-type: none"> <li>• at AC at 500 V rated value</li> </ul>                                | 3 kA      |
| <ul style="list-style-type: none"> <li>• at AC at 690 V rated value</li> </ul>                                | 2 kA      |
| <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> </ul>              | 10 kA     |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC at 300 V rated value</li> </ul> | 10 kA     |
| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC at 450 V rated value</li> </ul> | 10 kA     |

## 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> </ul>                                                                                                                                                                                                         | 10 A                           |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                                                                                                         | 10 A                           |
| <b>Yielded mechanical performance [hp]</b>                                                                                                                                                                                                                                       |                                |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor           <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul> </li> </ul>                                                                            | 0.5 hp<br>1.5 hp               |
| <ul style="list-style-type: none"> <li>• for three-phase AC motor           <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> <li>— at 220/230 V rated value</li> <li>— at 460/480 V rated value</li> <li>— at 575/600 V rated value</li> </ul> </li> </ul> | 2 hp<br>3 hp<br>5 hp<br>7.5 hp |

## Short-circuit protection

|                                                                                                |            |
|------------------------------------------------------------------------------------------------|------------|
| <b>Design of the short-circuit trip</b>                                                        | magnetic   |
| <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> </ul>                                   | gL/gG 80 A |
| <ul style="list-style-type: none"> <li>• at 400 V</li> </ul>                                   | gL/gG 63 A |
| <ul style="list-style-type: none"> <li>• at 500 V</li> </ul>                                   | gL/gG 50 A |

- at 690 V

gL/gG 50 A

## 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>             | 81 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                                                                                                                                                          |
| <b>Arrangement of electrical connectors for main current circuit</b>                                                                                                                                                                                        | Top and bottom                                                                                                                                                                |
| <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>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul> | 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> )<br>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> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> </ul> </li> </ul>                                                | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )                                                                                                         |
| <b>Tightening torque</b> <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary contacts with screw-type terminals</li> </ul>                                                                        | 0.8 ... 1.2 N·m<br>0.8 ... 1.2 N·m                                                                                                                                            |
| <b>Design of the thread of the connection screw</b> <ul style="list-style-type: none"> <li>• for main contacts</li> </ul>                                                                                                                                   | M3                                                                                                                                                                            |

## Safety related data

|                                                                                                                                                                                     |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>B10 value</b> <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>                                                                         | 5 000         |
| <b>Proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul> | 50 %<br>50 %  |
| <b>Failure rate [FIT]</b> <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> </ul>                                                                 | 50 FIT        |
| <b>Display version</b> <ul style="list-style-type: none"> <li>• for switching status</li> </ul>                                                                                     | Rocker switch |

## Certificates/approvals

| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|
|--------------------------|--------------------------------|



| Declaration of Conformity | Test Certificates | Shipping Approval |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



[spezielle Prüfbescheinigungen](#)



| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



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## 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=3RV1011-1JA10-Z W98>

**Cax online generator**

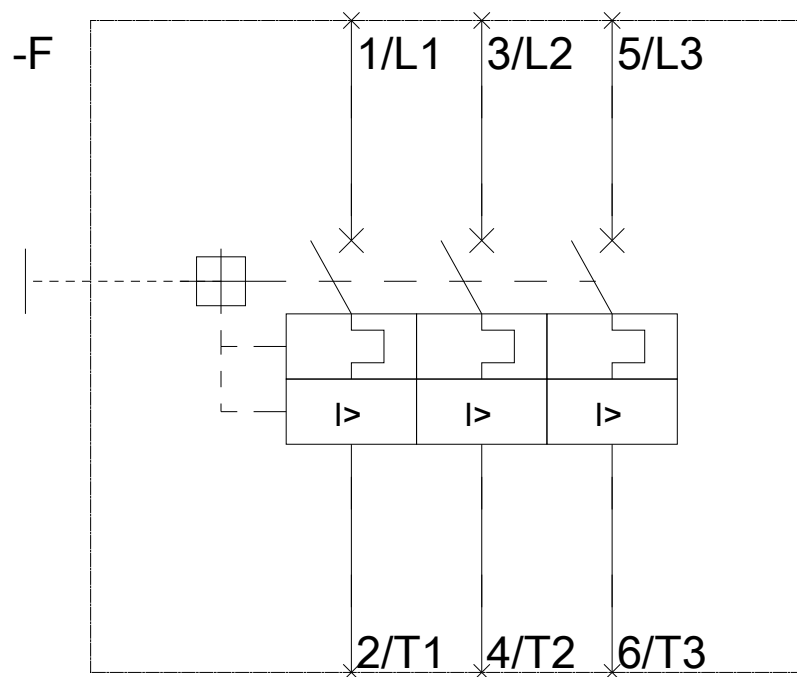
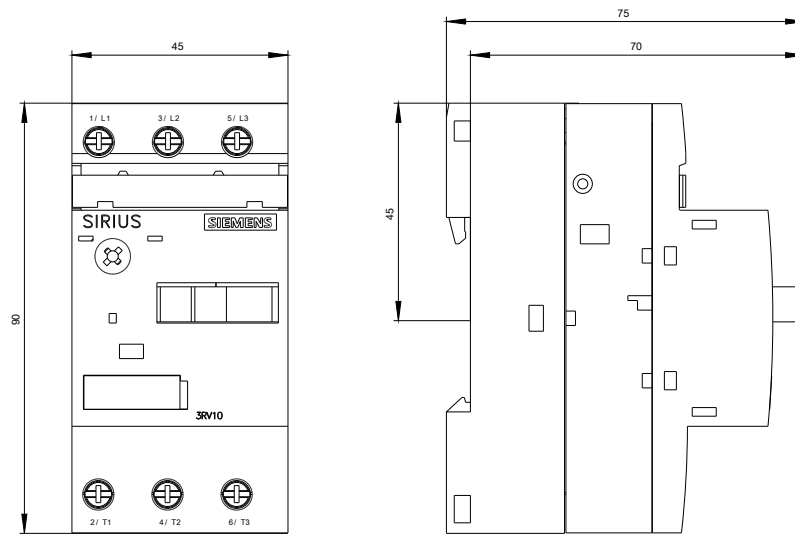
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1JA10-Z W98>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA10-Z W98>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1011-1JA10-Z W98&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1JA10-Z W98&lang=en)



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