



Figure similar

|                                                         |                            |
|---------------------------------------------------------|----------------------------|
| product brandname                                       | SIRIUS                     |
| Product designation                                     | circuit breaker            |
| Design of the product                                   | for transformer protection |
| General technical data                                  |                            |
| Product extension                                       |                            |
| • Auxiliary switch                                      | Yes                        |
| Power loss [W] total typical                            | 6 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                          | 100 000                    |
| 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>Adjustable pick-up value current of the current-dependent overload release</b> | 2.2 ... 3.2 A |
| <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                                                            | 3.2 A         |
| <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>Trip class</b>                                                       | CLASS 10 |
| <b>Maximum short-circuit current breaking capacity (I<sub>cu</sub>)</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                                            | 100 kA   |
| • at AC at 690 V rated value                                            | 8 kA     |

#### 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>                | 97 mm                                                                                  |
| <b>Width</b>                 | 45 mm                                                                                  |
| <b>Depth</b>                 | 96 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<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 (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )<br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )<br>2x (14 ... 10) |

#### Certificates/approvals

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

| Shipping Approval                                                                                     | other                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------|
| <br>BUREAU VERITAS | <a href="#">Umweltbestätigung</a> |
| <br>DNV            | <a href="#">sonstig</a>           |
| <br>LRS            |                                   |
| <br>RMRS           |                                   |

| other                                                                                      |
|--------------------------------------------------------------------------------------------|
| <a href="#">Bestätigungen</a>                                                              |
| <br>VDE |

#### Further information

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

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

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

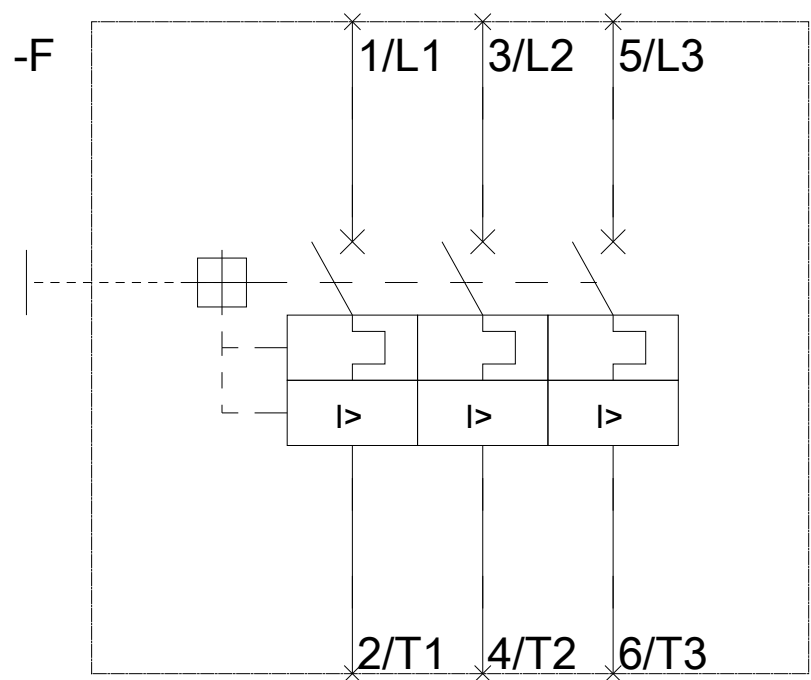
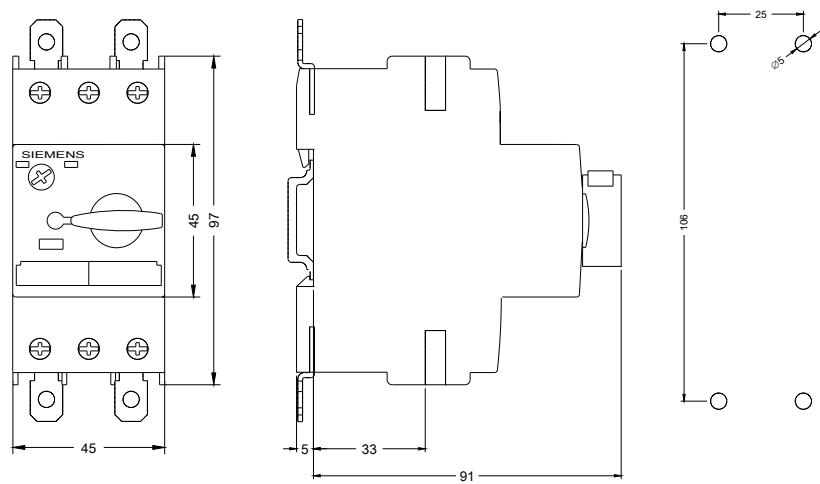
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1421-1DA10-Z W97>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1421-1DA10-Z W97>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1421-1DA10-Z W97>



last modified:

10/19/2016