

CIRCUIT-BREAKER SIZE S0, FOR MOTOR PROTECTION, CLASS 10, A-REL.4.5A...6.3A, N-REL.82A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY



Figure similar

|                       |                      |
|-----------------------|----------------------|
| product brand name    | SIRIUS               |
| Product designation   | circuit breaker      |
| Design of the product | for motor 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> | 4.5 ... 6.3 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                                                            | 6.3 A         |
| <b>Operating power</b>                                                            |               |
| • at AC-3                                                                         |               |
| — at 400 V rated value                                                            | 2.2 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>Trip class</b>                                            | CLASS 10 |
| <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                                 | 100 kA   |
| • at AC at 690 V rated value                                 | 6 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



### For use in hazardous locations

| Declaration of Conformity | Test Certificates                                                  | Shipping Approval |            |             | other                   |
|---------------------------|--------------------------------------------------------------------|-------------------|------------|-------------|-------------------------|
| <p>EG-Konf.</p>           | <a href="#">spezielle Prüfbescheinigungen</a><br><a href="#">n</a> | <p>ABS</p>        | <p>LRS</p> | <p>RMRS</p> | <a href="#">sonstig</a> |

### other

[Bestätigungen](#)

[Umweltbestätigung](#)



## Further information

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

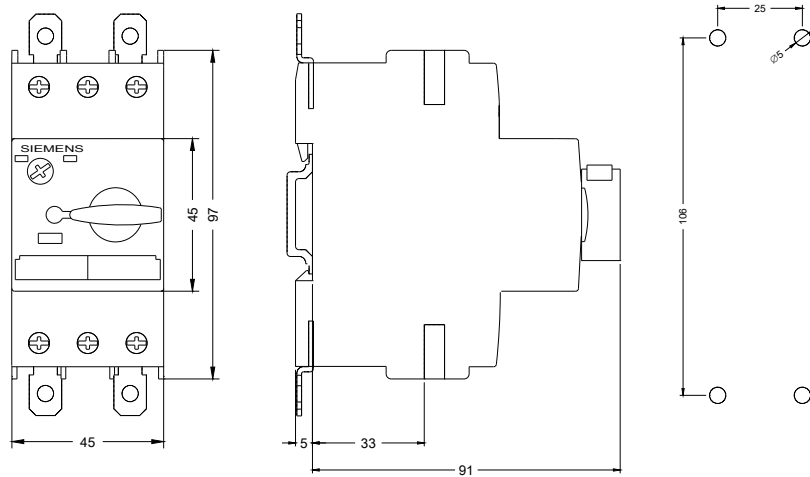
<http://www.siemens.com/industrial-controls/catalogs>

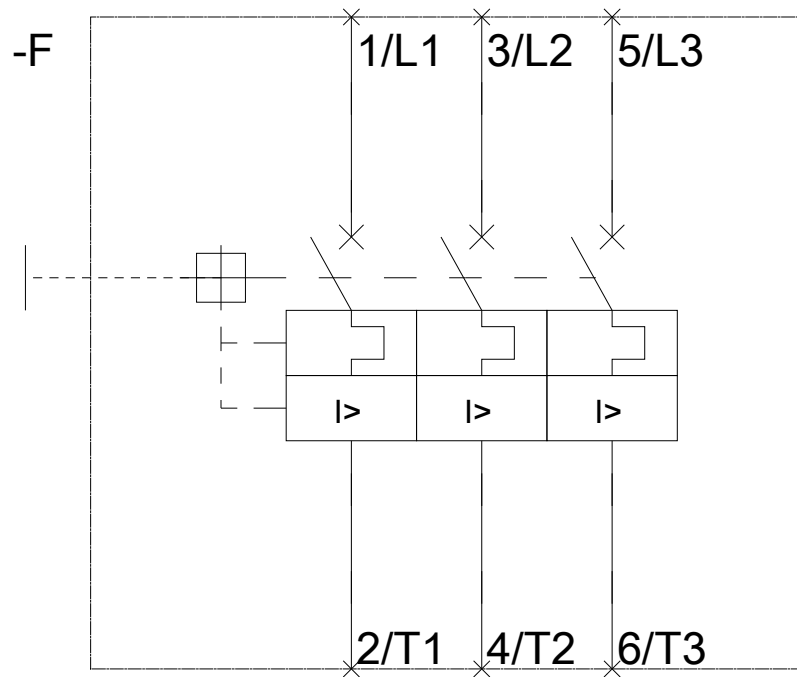
### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1021-1GA10>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1021-1GA10>





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