

|                       |                      |
|-----------------------|----------------------|
| 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

|                                                                            |               |
|----------------------------------------------------------------------------|---------------|
| Number of poles for main current circuit                                   | 3             |
| Adjustable pick-up value current of the current-dependent overload release | 4.5 ... 6.3 A |
| Operating voltage                                                          |               |
| • rated value                                                              | 690 V         |
| • at AC-3 rated value maximum                                              | 690 V         |
| Operating current                                                          |               |
| • at AC-3                                                                  |               |
| — at 400 V rated value                                                     | 6.3 A         |
| Operating power                                                            |               |
| • at AC-3                                                                  |               |
| — at 400 V rated value                                                     | 2.2 kW        |
| Operating frequency                                                        |               |
| • at AC-3 maximum                                                          | 15 1/h        |

### Auxiliary circuit

|                                                                      |                                                                                        |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Number of CO contacts</b>                                         |                                                                                        |
| • for auxiliary contacts                                             | 0                                                                                      |
| <b>Protective and monitoring functions</b>                           |                                                                                        |
| <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                                                                                   |
| <b>Short-circuit protection</b>                                      |                                                                                        |
| <b>Design of the overcurrent release and short-circuit release</b>   | thermomagnetic                                                                         |
| <b>Installation/ mounting/ dimensions</b>                            |                                                                                        |
| <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                                                                                   |
| <b>Connections/Terminals</b>                                         |                                                                                        |
| <b>Product function</b>                                              |                                                                                        |
| • removable terminal for auxiliary and control circuit               | No                                                                                     |
| <b>Type of electrical connection</b>                                 |                                                                                        |
| • for main current circuit                                           | screw-type terminals                                                                   |
| • for auxiliary and control current circuit                          | screw-type terminals                                                                   |
| <b>Arrangement of electrical connectors for main current circuit</b> | front side                                                                             |
| <b>Type of connectable conductor cross-sections</b>                  |                                                                                        |
| • for main contacts                                                  |                                                                                        |
| — solid                                                              | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )                       |
| — stranded                                                           | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )                       |
| — finely stranded with core end processing                           | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )                       |
| • at AWG conductors for main contacts                                | 2x (14 ... 10)                                                                         |
| <b>Certificates/approvals</b>                                        |                                                                                        |

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



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



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|-------|

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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=3RV1021-1GA10-Z W98>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1021-1GA10-Z W98>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1021-1GA10-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=3RV1021-1GA10-Z W98&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1021-1GA10-Z W98&lang=en)

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