

LOAD FEEDER FUSELESS DIRECT STARTING,  
AC 400V, SIZE S00, 17...22A ;  
AC 24V SCREW MOUNTING BUSBAR MOUNTING 60MM  
TYPE OF COORDINATION 1,  
IQ = 50KA CONTROL CIRCUIT SPRING LOADED  
CONNECTION

### General technical data:

|                                                                                   |    |                               |
|-----------------------------------------------------------------------------------|----|-------------------------------|
| <b>product brand name</b>                                                         |    | SIRIUS                        |
| <b>Product designation</b>                                                        |    | non-fused load feeder         |
| <b>Design of the product</b>                                                      |    | direct starter                |
| <b>Size of the load feeder</b>                                                    |    | S0                            |
| <b>Protection class IP / on the front</b>                                         |    | IP20                          |
| <b>Degree of pollution</b>                                                        |    | 3                             |
| <b>Insulation voltage / rated value</b>                                           | V  | 690                           |
| <b>Installation altitude / at a height over sea level / maximum</b>               | m  | 2,000                         |
| <b>Ambient temperature</b>                                                        |    |                               |
| • during storage                                                                  | °C | -55 ... +80                   |
| • during operating                                                                | °C | -20 ... +70                   |
| <b>Resistance against shock</b>                                                   |    | 12.5g                         |
| <b>Impulse voltage resistance / rated value</b>                                   | kV | 6                             |
| <b>Reference code</b>                                                             |    |                               |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750   |    | Q                             |
| • according to DIN EN 61346-2                                                     |    | Q                             |
| <b>Type of assignment</b>                                                         |    | 1                             |
| <b>Mechanical operating cycles as operating time / of the contactor / typical</b> |    | 10,000,000                    |
| <b>Manufacturer article number</b>                                                |    |                               |
| • of the circuit-breakers included in the scope of supply                         |    | <a href="#">3RV1021-4CA10</a> |
| • of the contactor included in the scope of supply                                |    | <a href="#">3RT1025-1AB00</a> |
| • of the link module included in the scope of supply                              |    | <a href="#">3RA1921-1AA00</a> |
| • of the busbar adapter included in the scope of supply                           |    | <a href="#">8US1251-5DM07</a> |
| <b>Design of the switching contact</b>                                            |    | electromechanical             |
| <b>Type of the motor protection</b>                                               |    | bimetal                       |
| <b>Adjustable response current</b>                                                |    |                               |
| • of the current-dependent overload release                                       | A  | 17 ... 22                     |

| Communication/ Protocol:                                                                  |     |                                                                                                                   |
|-------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------|
| Product function / bus-communication                                                      |     | No                                                                                                                |
| Protocol / is supported                                                                   |     |                                                                                                                   |
| • AS interface protocol                                                                   |     | No                                                                                                                |
| • PROFIBUS DP protocol                                                                    |     | No                                                                                                                |
| • PROFINET protocol                                                                       |     | No                                                                                                                |
| Main circuit:                                                                             |     |                                                                                                                   |
| Number of poles / for main current circuit                                                |     | 3                                                                                                                 |
| Operating voltage / at AC-3 / rated value / maximum                                       | V   | 400                                                                                                               |
| Operating current / at AC-3 / at 400 V / rated value                                      | A   | 22                                                                                                                |
| Service power / at AC-3 / at 400 V / rated value                                          | kW  | 11                                                                                                                |
| Off-load operating frequency                                                              | 1/s | 15                                                                                                                |
| Control circuit/ Control:                                                                 |     |                                                                                                                   |
| Voltage type / of control feed voltage                                                    |     | AC                                                                                                                |
| Control supply voltage frequency / 1                                                      |     |                                                                                                                   |
| • rated value                                                                             | Hz  | 50                                                                                                                |
| Control supply voltage / 1                                                                |     |                                                                                                                   |
| • at 50 Hz / for AC                                                                       |     |                                                                                                                   |
| • rated value                                                                             | V   | 24                                                                                                                |
| Auxiliary circuit:                                                                        |     |                                                                                                                   |
| Product extension / auxiliary switch                                                      |     | Yes                                                                                                               |
| Number of changeover contacts / for auxiliary contacts                                    |     | 0                                                                                                                 |
| Inputs/ Outputs:                                                                          |     |                                                                                                                   |
| Number of digital inputs                                                                  |     | 0                                                                                                                 |
| Short-circuit:                                                                            |     |                                                                                                                   |
| Product function / short circuit protection                                               |     | Yes                                                                                                               |
| Design of the short-circuit protection                                                    |     | circuit-breakers                                                                                                  |
| Breaking capacity limit short-circuit current (I <sub>cu</sub> ) / at 400 V / rated value | kA  | 50                                                                                                                |
| Installation/ mounting/ dimensions:                                                       |     |                                                                                                                   |
| mounting position                                                                         |     | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| Mounting type                                                                             |     | for snapping onto 60 mm busbar systems                                                                            |
| Width                                                                                     | mm  | 45                                                                                                                |
| Height                                                                                    | mm  | 183                                                                                                               |
| Depth                                                                                     | mm  | 154                                                                                                               |

|                                                                     |    |    |
|---------------------------------------------------------------------|----|----|
| <b>Distance, to be maintained, to the ranks assembly / sideways</b> | mm | 0  |
| <b>Distance, to be maintained, to earthed part</b>                  |    |    |
| • forwards                                                          | mm | 10 |
| • backwards                                                         | mm | 0  |
| • upwards                                                           | mm | 30 |
| • sideways                                                          | mm | 9  |
| <b>Distance, to be maintained, conductive elements</b>              |    |    |
| • forwards                                                          | mm | 10 |
| • backwards                                                         | mm | 9  |
| • downwards                                                         | mm | 0  |
| • sideways                                                          | mm | 30 |

#### Connections/ terminals:

|                                                                       |  |                                                                                            |
|-----------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|
| <b>Design of the electrical connection / for main current circuit</b> |  | screw-type terminals                                                                       |
| <b>Type of the connectable conductor cross-section</b>                |  |                                                                                            |
| • for main contacts                                                   |  |                                                                                            |
| • solid                                                               |  | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| • stranded                                                            |  | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| • finely stranded / with conductor end processing                     |  | 1 ... 6 mm <sup>2</sup> , 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ) |
| • for AWG conductors / for main contacts                              |  | 2x (14 ... 10)                                                                             |
| <b>Verification of suitability</b>                                    |  | UL / CSA / CCC / GL / LRS / BV / DNV / PRS                                                 |

#### Certificates/ approvals:

|                                 |                                       |                                  |
|---------------------------------|---------------------------------------|----------------------------------|
| <b>General Product Approval</b> | <b>For use in hazardous locations</b> | <b>Declaration of Conformity</b> |
|---------------------------------|---------------------------------------|----------------------------------|



#### Shipping Approval



#### other

[other](#)

[Environmental Confirmations](#)

#### Further information:

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

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

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

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

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**Cax online generator**

<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA1120-4CN25-0AB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA1120-4CN25-0AB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA1120-4CN25-0AB0)

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**last change:**

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