



LOAD FEEDER FUSELESS DIRECT STARTING, AC  
400V, SIZE S0 3.5...5 A,  
AC 230 V, 50 HZ,  
SCREW CONNECTION FOR MOUNTING ONTO  
STANDARD MOUNTING RAILS,  
TYPE OF COORDIN. 2, IQ = 50 KA

**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>   |    | 2                     |
| <b>Mechanical operating cycles as operating time / of the contactor / typical</b> |    | 10,000,000            |

|   |   |   |
|---|---|---|
| <b>Manufacturer article number</b>  |   |   |
| <ul style="list-style-type: none"> <li>• of the circuit-breakers included in the scope of supply</li> <li>• of the contactor included in the scope of supply</li> <li>• of the link module included in the scope of supply</li> </ul> |   | <a href="#">3RV1021-1FA10</a><br><a href="#">3RT1024-1AP00</a><br><a href="#">3RA1921-1AA00</a> |
| <b>Design of the switching contact</b>  |   | electromechanical   |
| <b>Type of the motor protection</b>   |   | bimetal   |
| <b>Adjustable response current</b>  |   |   |
| <ul style="list-style-type: none"> <li>• of the current-dependent overload release</li> </ul>   | A | 3.5 ... 5   |

#### Communication/ Protocol:

|   |  |    |
|---|--|----|
| <b>Product function / bus-communication</b>                               |  | No |
| <b>Protocol / is supported</b>  |  |    |
| <ul style="list-style-type: none"> <li>• AS interface protocol</li> </ul> |  | No |
| <ul style="list-style-type: none"> <li>• PROFIBUS DP protocol</li> </ul>  |  | No |
| <ul style="list-style-type: none"> <li>• PROFINET protocol</li> </ul>     |  | No |

#### Main circuit:

|   |     |     |
|---|-----|-----|
| <b>Number of poles / for main current circuit</b>           |     | 3   |
| <b>Operating voltage / at AC-3 / rated value / maximum</b>  | V   | 400 |
| <b>Operating current / at AC-3 / at 400 V / rated value</b> | A   | 3.6 |
| <b>Service power / at AC-3 / at 400 V / rated value</b>     | kW  | 1.5 |
| <b>Off-load operating frequency</b>                         | 1/s | 15  |

#### Control circuit/ Control:

|  |    |     |
|--|----|-----|
| <b>Voltage type / of control feed voltage</b>  |    | AC  |
| <b>Control supply voltage frequency / 1</b>  |    |     |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                              | Hz | 50  |
| <b>Control supply voltage / 1</b>  |    |     |
| <ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> <li>• rated value</li> </ul> | V  | 230 |

#### Auxiliary circuit:

|   |  |     |
|---|--|-----|
| <b>Product extension / auxiliary switch</b>                   |  | Yes |
| <b>Number of NC contacts / for auxiliary contacts</b>         |  | 0   |
| <b>Number of NO contacts / for auxiliary contacts</b>         |  | 0   |
| <b>Number of changeover contacts / for auxiliary contacts</b> |  | 0   |

#### Inputs/ Outputs:

|                                 |  |   |
|---------------------------------|--|---|
| <b>Number of digital inputs</b> |  | 0 |
|---------------------------------|--|---|

#### Short-circuit:

|  |  |     |
|--|--|-----|
| <b>Product function / short circuit protection</b> |  | Yes |
|--|--|-----|

|  |    |                  |
|--|----|------------------|
| <b>Design of the short-circuit protection</b>  |    | circuit-breakers |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>) / at 400 V / rated value</b> | kA | 50               |

#### Installation/ mounting/ dimensions:

|   |    |   |
|---|----|---|
| <b>mounting position</b>  |    | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| <b>Mounting type</b>  |    | snap-on fastening on 35 mm standard rail  |
| <b>Width</b>  | mm | 45  |
| <b>Height</b>   | mm | 183   |
| <b>Depth</b>  | mm | 96  |
| <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:

General Product Approval

For use in hazardous locations

Declaration of Conformity



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>

Cax online generator

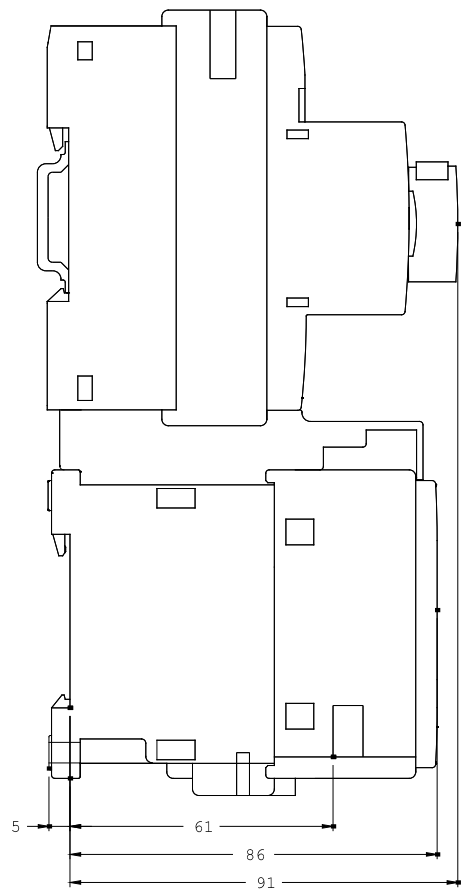
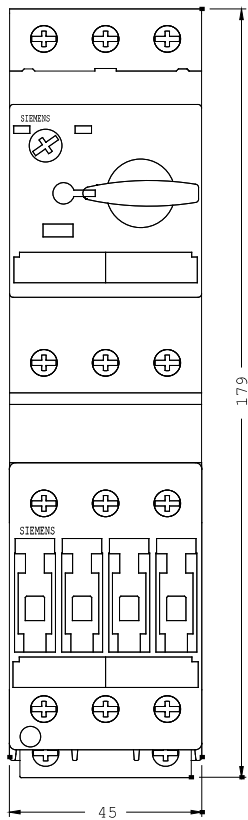
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA1120-1FA24-0AP0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA1120-1FA24-0AP0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA1120-1FA24-0AP0)



last change:

Jul 28, 2014