



LOAD FEEDER FUSE LINE DIRECT START,  
 400 V AC, SIZE S0 3.5...5 A, 230 V AC,  
 50/60 HZ,  
 SCREW CONNECTION FOR TOP-HAT RAIL MOUNTING,  
 ASSIGN. TYPE 2,  
 IQ = 50 KA (COMPLY WITH ASSIGN. TYPE 1)

**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> <a href="#">3RT1024-1AL20</a> <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>• initial rated value</li> </ul>	Hz	50
<ul style="list-style-type: none"> <li>• final rated value</li> </ul>	Hz	60
<b>Control supply voltage / 1</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC <ul style="list-style-type: none"> <li>• rated value</li> </ul> </li> </ul>	V	230
<ul style="list-style-type: none"> <li>• for AC / at 60 Hz <ul style="list-style-type: none"> <li>• rated value</li> </ul> </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
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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

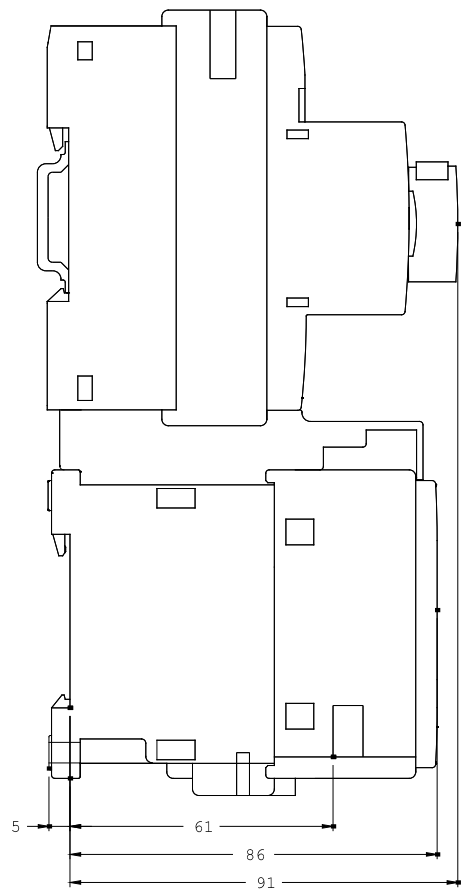
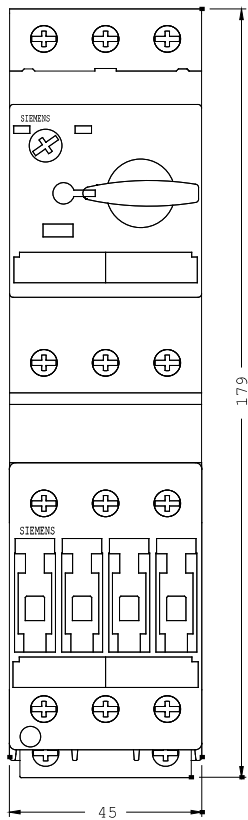
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RA1120-1FA24-0AL2/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RA1120-1FA24-0AL2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA1120-1FA24-0AL2)



last change:

Jul 28, 2014