



SIRIUS, COMPACT STARTER, REVERSING STARTER 400 V, 24 V AC/DC, 50 ... 60 HZ, 8 ... 32 A, IP20, MAIN CIRCUIT CONNECTION: SCREW TERMINAL, AUXILIARY CIRCUIT CONNECTION: PLUG-IN, W/O TERMINALS

product brand name		SIRIUS
Product designation		compact starter
Design of the product		reversing feeder

### General technical data:

<b>Product function</b>		
<ul style="list-style-type: none"> <li>Control circuit interface to parallel wiring</li> </ul>		Yes
<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	V	690
<b>maximum permissible voltage for safe isolation</b>		
<ul style="list-style-type: none"> <li>between auxiliary and auxiliary circuit</li> <li>between control and auxiliary circuit</li> <li>between main and auxiliary circuit</li> </ul>	V	250 300 400
<b>Degree of pollution</b>		3
<b>Shock resistance</b>		a=60 m/s <sup>2</sup> (6g) with 10 ms per 3 shocks in all axes
<b>Vibration resistance</b>		f= 4 ... 5.8 Hz, d= 15 mm; f= 5.8 ... 500 Hz, a= 20 m/s <sup>2</sup> ; 10 cycles
<b>Surge voltage resistance Rated value</b>	V	6 000
<b>Mechanical service life (switching cycles)</b>		
<ul style="list-style-type: none"> <li>of the main contacts typical</li> <li>of the auxiliary contacts typical</li> <li>of the signaling contacts typical</li> </ul>		10 000 000 10 000 000 10 000 000
<b>Electrical endurance (switching cycles) of the auxiliary contacts</b>		
<ul style="list-style-type: none"> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> </ul>		100 000 500 000

<b>Electrical endurance (switching cycles) of the signaling contacts</b>		
<ul style="list-style-type: none"> <li>• at DC-13 at 6 A at 24 V typical</li> <li>• at AC-15 at 6 A at 230 V typical</li> </ul>		100 000 500 000
<b>Type of assignment</b>		continuous operation according to IEC 60947-6-2
<b>Protection class IP</b>		IP20
<b>Equipment marking</b>		
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>		Q

#### Main circuit:

<b>Number of poles for main current circuit</b>		3
<b>Adjustable response value current of the current-dependent overload release</b>	A	8 ... 32
<b>Formula for making capacity limit current</b>		12 x I <sub>e</sub>
<b>Formula for interruption capacity limit current</b>		10 x I <sub>e</sub>
<b>Mechanical power output for 4-pole AC motor</b>		
<ul style="list-style-type: none"> <li>• at 400 V Rated value</li> </ul>	kW	15
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>• at AC-3 Rated value maximum</li> </ul>	V	400
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• with AC at 400 V Rated value</li> <li>• at AC-43</li> <li>— at 400 V Rated value</li> </ul>	A	32 29
<b>Operating power</b>		
<ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V Rated value</li> <li>• at AC-43</li> <li>— at 400 V Rated value</li> </ul>	kW W	15 15 000
<b>Operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC-41 acc. to IEC 60947-6-2 maximum</li> <li>• at AC-43 acc. to IEC 60947-6-2 maximum</li> </ul>	1/h 1/h	750 250
<b>No-load switching frequency</b>	1/h	3 600

#### Control circuit/ Control:

<b>Type of voltage</b>		AC
<b>Control supply voltage 1 with AC</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz Rated value</li> <li>• at 60 Hz Rated value</li> </ul>	V V	24 24
<b>Control supply voltage 1</b>		
<ul style="list-style-type: none"> <li>• for DC Rated value</li> <li>• Rated value</li> </ul>	V Hz	24 50
<b>Control supply voltage frequency 2 Rated value</b>	Hz	60
<b>Holding power</b>		
<ul style="list-style-type: none"> <li>• with AC maximum</li> </ul>	W	3.5

- for DC maximum

W	3.1
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### Auxiliary circuit:

<b>Number of NC contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>		0
<b>Number of NO contacts</b>		
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• of the instantaneous short-circuit release for signaling contact</li> </ul>		2 1
<b>Number of CO contacts</b>		
<ul style="list-style-type: none"> <li>• of the current-dependent overload release for signaling contact</li> </ul>		1
<b>Product expansion Auxiliary switch</b>		Yes
<b>Operating current of the auxiliary contacts at AC-12 maximum</b>	A	10
<b>Operating current of the auxiliary contacts at DC-13</b>		
<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	A	0.27

### Protective and monitoring functions:

<b>Trip class</b>		CLASS 10 and 20 adjustable
<b>OFF-delay time</b>	ms	50
<b>Operational short-circuit current breaking capacity (Ics)</b>		
<ul style="list-style-type: none"> <li>• at 400 V</li> </ul>	kA	53

### UL/CSA ratings:

<b>Full-load current (FLA) for three-phase AC motor</b>		
<ul style="list-style-type: none"> <li>• at 480 V Rated value</li> </ul>	A	32
<b>yielded mechanical performance [hp]</b>		
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	7.5
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	10
<ul style="list-style-type: none"> <li>• for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	20
<b>Contact rating of the auxiliary contacts acc. to UL</b>		contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300

### Short-circuit:

<b>Product function Short circuit protection</b>		Yes
<b>Design of short-circuit protection</b>		electromagnetic
<b>Design of the fuse link</b>		
<ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>		fuse gL/gG: 10 A
<ul style="list-style-type: none"> <li>• for short-circuit protection of the signaling switch of the short-circuit release required</li> </ul>		6A gL/gG/400V

- for short-circuit protection of the signaling switch of the overload release required

4A gL/gG/400V

#### Installation/ mounting/ dimensions:

<b>mounting position</b>		any
<ul style="list-style-type: none"> <li>• recommended</li> </ul>		vertical, on horizontal standard mounting rail
<b>Mounting type</b>		screw and snap-on mounting
<b>Height</b>	mm	170
<b>Width</b>	mm	90
<b>Depth</b>	mm	165

#### Connections/ Terminals:

<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 plug-in without terminals
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• removable terminal for main circuit</li> <li>• removable terminal for auxiliary and control circuit</li> </ul>		Yes Yes
<b>Type of connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• for main contacts               <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for main contacts</li> <li>• for auxiliary contacts               <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for auxiliary contacts</li> </ul>		2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (2.5 ... 6 mm <sup>2</sup> ) 2x (14 ... 10), 1x 8  0.5 ... 4 mm <sup>2</sup> , 2x (0.5 ... 2.5 mm <sup>2</sup> ) 0.5 ... 2.5 mm <sup>2</sup> , 2x (0.5 ... 1.5 mm <sup>2</sup> ) 2x (20 ... 14)

#### Safety related data:

<b>B10 value with high demand rate acc. to SN 31920</b>		2 000 000
<b>Proportion of dangerous failures</b>		
<ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul>	% %	40 50
<b>Failure rate [FIT] with low demand rate acc. to SN 31920</b>	FIT	100
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	y	20
<b>Protection against electrical shock</b>		finger-safe

#### Communication/ Protocol:

<b>Product function Bus communication</b>		No
<b>Product function Control circuit interface with IO link</b>		No

#### Ambient conditions:

<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>Ambient temperature</b>		
• during operation	°C	-20 ... +60
• during storage	°C	-55 ... +80
• during transport	°C	-55 ... +80
<b>Relative humidity during operation</b>	%	10 ... 90

#### Electromagnetic compatibility:

<b>Conducted interference due to burst acc. to IEC 61000-4-4</b>		4 kV main contacts, 2 kV auxiliary contacts
<b>Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5</b>		4 kV main contacts, 2 kV auxiliary contacts
<b>Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5</b>		2 kV main contacts, 1 kV auxiliary contacts
<b>Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6</b>		0.15-80Mhz at 10V
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>		10 V/m
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>		8 kV

#### Supply voltage:

<b>Supply voltage required Auxiliary voltage</b>		No
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#### Certificates/ approvals:

General Product Approval	EMC	Functional Safety/Safety of Machinery
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CCC



CSA



UL



C-TICK



VDE

Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)



BUREAU VERITAS



DNV



LRS



PRS



RINA

Shipping Approval	other
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RMRS

[Declaration of Conformity](#)

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#### Further information

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator**

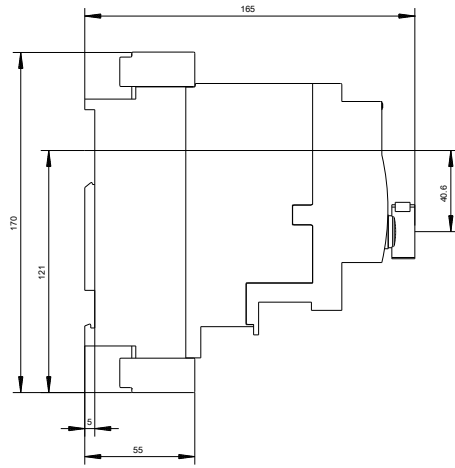
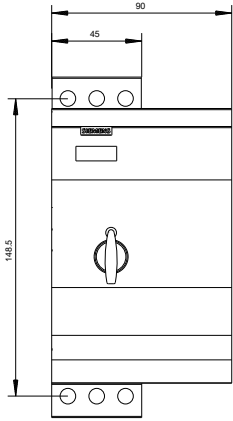
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA62501EB34>

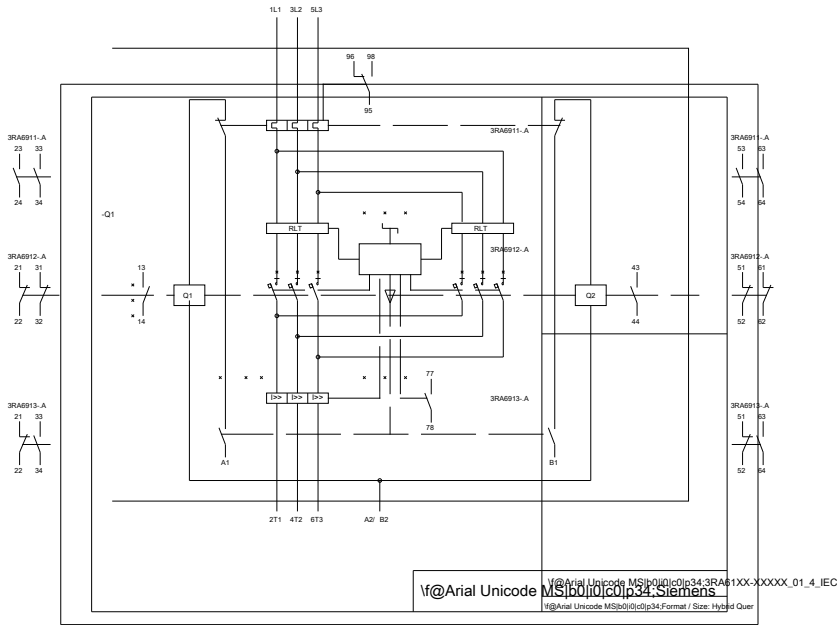
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RA62501EB34/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA62501EB34&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA62501EB34&lang=en)





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