## SIEMENS

## Data sheet

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SIRIUS soft starter Values at 460 V, 50 °C standard: 315 A, 250 hp Inside-delta: 546 A, 450 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5546-6HA14<<

3RW4446-6BC34

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	А	356
<ul> <li>at 50 °C rated value</li> </ul>	А	315
<ul> <li>at 60 °C rated value</li> </ul>	А	280
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	617
<ul> <li>at 50 °C rated value</li> </ul>	А	546
<ul> <li>at 60 °C rated value</li> </ul>	А	485
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	110
- at inside-delta circuit at 40 °C rated value	kW	200
• at 400 V		
— at standard circuit at 40 °C rated value	kW	200
— at inside-delta circuit at 40 °C rated value	kW	355
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

operating voltage at standard circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage at minited-data circuit rated value         V         200 460           relative sporting voltage rate of the operating voltage at minited-data circuit rated value         V         200 460           adjustable motor current for motor overload protection minitem rated value         V         200 460           control supply voltage frequency / rated value         Hz         00           control supply voltage frequency / rated value         Hz         00           relative sporting tolerance of the control supply         V         115           relative sporting tolerance of the control supply         V         10           voltage frequency / rated value         V         115           relative sporting tolerance of the control supply         %			
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Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         number of NC contacts for auxiliary contacts         number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         type of connectable conductor cross-sections for         main contacts for box terminal using the front         clamping point         • finely stranded without core end processing         • stranded         type of connectable conductor cross-sections for         main contacts for box terminal using the back         clamping point	wire length maximum	m	500
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         number of NC contacts for auxiliary contacts         number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         type of connectable conductor cross-sections for         main contacts for box terminal using the front         clamping point         • finely stranded without core end processing         • stranded         type of connectable conductor cross-sections for         main contacts for box terminal using the back         clamping point			3
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number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point1• finely stranded with core end processing70 240 mm²• finely stranded without core end processing • stranded70 240 mm²• stranded95 300 mm²	-		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • finely stranded without core end processing • stranded70 240 mm²• finely stranded without core end processing • stranded70 240 mm²• stranded • stranded95 300 mm²			
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>stranded</li> <li>95 300 mm<sup>2</sup></li> </ul>	type of connectable conductor cross-sections for main contacts for box terminal using the front		
• stranded 95 300 mm <sup>2</sup> type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point 95 300 mm <sup>2</sup>	<ul> <li>finely stranded with core end processing</li> </ul>		70 240 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
main contacts for box terminal using the back clamping point			95 300 mm²
	main contacts for box terminal using the back		
	finally stranded with core and processing		120 185 mm²

<ul> <li>finely stranded without core end proces</li> </ul>					
•	ssing		120 185 mm	1 <sup>2</sup>	
<ul> <li>stranded</li> </ul>			120 240 mm	1 <sup>2</sup>	
type of connectable conductor cross-section	ions for				
main contacts for box terminal using both	clamping				
points					
<ul> <li>finely stranded with core end processin</li> </ul>	g		min. 2x 50 mm	1², max. 2x 185 mm²	
<ul> <li>finely stranded without core end proces</li> </ul>	ssing		min. 2x 50 mm	<sup>1</sup> <sup>2</sup> , max. 2x 185 mm <sup>2</sup>	
<ul> <li>stranded</li> </ul>			max. 2x 70 mm	m², max. 2x 240 mm²	
type of connectable conductor cross-secti	ions at AWG				
cables for main contacts for box terminal					
<ul> <li>using the back clamping point</li> </ul>			250 500 kcm	nil	
<ul> <li>using the front clamping point</li> </ul>			3/0 600 kcm	nil	
<ul> <li>using both clamping points</li> </ul>			min. 2x 2/0. m	ax. 2x 500 kcmil	
type of connectable conductor cross-secti	ions for DIN				
cable lug for main contacts					
<ul> <li>finely stranded</li> </ul>			50 240 mm <sup>2</sup>	2	
<ul> <li>stranded</li> </ul>			70 240 mm <sup>2</sup>	2	
type of connectable conductor cross-section	ions for				
auxiliary contacts					
• solid			2x (0.5 2.5 r	mm²)	
<ul> <li>finely stranded with core end processin</li> </ul>	a		2x (0.5 1.5 r		
type of connectable conductor cross-secti	-		2. (0.0 1.0 1		
cables					
for main contacts			2/0 500 kcm	nil	
for auxiliary contacts			2x (20 14)		
	44				
<ul> <li>for auxiliary contacts finely stranded wit processing</li> </ul>	th core end		2x (20 16)		
	_				
Ambient conditions					
installation altitude at height above sea lev	vel	m	5 000		
environmental category					
<ul> <li>during transport according to IEC 6072</li> </ul>	1		2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>			1K6 (only occa	asional condensation),	IC2 (no salt mist),
				st not get inside the dev	
<ul> <li>during operation according to IEC 6072</li> </ul>	21		3K6 (no forma	tion of ice, no condense	ation), 3C3 (no salt
			mist), 3S2 (sar	nd must not get into the	devices), 3M6
ambient temperature					
<ul> <li>during operation</li> </ul>		°C	60		
<ul> <li>during storage</li> </ul>		°C	-25 +80		
derating temperature		°C	40		
			IP00; IP20 with	h box terminal/cover	
	to IEC				
protection class IP on the front according 60529	to IEC				
protection class IP on the front according			finger-safe, for	vertical contact from th	e front with box
protection class IP on the front according 60529			finger-safe, for terminal/cover		e front with box
protection class IP on the front according 60529 touch protection on the front according to					e front with box
protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals					
protection class IP on the front according 60529 touch protection on the front according to					e front with box
protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals	IEC 60529				
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protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals General Product Approval	IEC 60529			EAC	
protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals	DIEC 60529				
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protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals General Product Approval CEC Declaration of Conformity	DIEC 60529	<u>Special</u>	terminal/cover	EAC	
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UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	150
• at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	125
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	200
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	250
- at inside-delta circuit at 50 °C rated value	hp	450
contact rating of auxiliary contacts according to UL		B300 / R300
	hp	

Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4446-6BC34

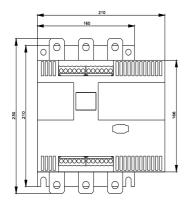
Cax online generator

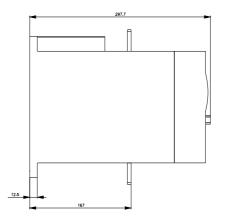
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4446-6BC34

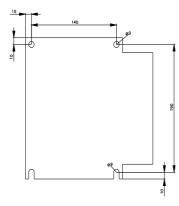
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

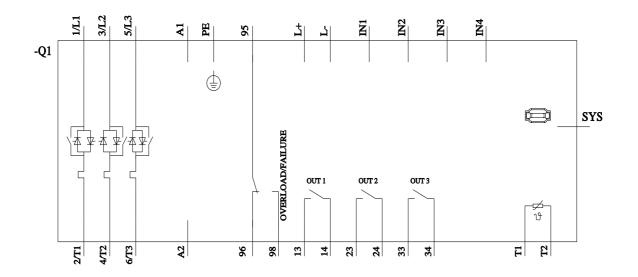
https://support.industry.siemens.com/cs/ww/en/ps/3RW4446-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4446-6BC34&lang=en









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