SIEMENS

Data sheet

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		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current limitation 		Yes
 inside-delta circuit 		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		
 at 40 °C rated value 	А	356
 at 50 °C rated value 	А	315
 at 60 °C rated value 	А	280
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	617
 at 50 °C rated value 	А	546
 at 60 °C rated value 	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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Instance of the control supply of the contro		%	-15
adjustable motion for motor coverbaad protection minimum rated value of the other other of the other of the other of the other other other of the other other other other of the other		%	10
protection minimum rated value continuous operating current (% of lej at 4° C governor loss (W) at operating current at 40 °C during portain typical Control circulul Control Type of voltage of the control supply voltage control supply voltage frequency 1 rated value Fiz Control supply voltage frequency 2 rated value Fiz Control supply voltage frequency 2 rated value Fiz Control supply voltage frequency 1 rated value Fiz Control supply voltage frequency 2 rated value Fig. 60 Control supply voltage frequency 2 rated value Fig. 60 Control supply voltage frequency 2 rated value Fig. 60 Control supply voltage frequency 2 rated value Fig. 60 Control supply voltage frequency 1 rated value Fig. 60 Control supply voltage frequency 1 rated value Fig. 60 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 2 rated value Fig. 70 Control supply voltage frequency 4 Control supply frequency 4 Control supply 5 Contect 5 Contect 5 Control supply 5 Conte	minimum load [%]	%	8
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• stranded 95 300 mm ² type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point 95 300 mm ²	 finely stranded with core end processing 		70 240 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	 finely stranded without core end processing 		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

 finely stranded without core end proces 					
•	ssing		120 185 mm	1 ²	
 stranded 			120 240 mm	1 ²	
type of connectable conductor cross-section	ions for				
main contacts for box terminal using both	clamping				
points					
 finely stranded with core end processin 	g		min. 2x 50 mm	1², max. 2x 185 mm²	
 finely stranded without core end proces 	ssing		min. 2x 50 mm	¹ ² , max. 2x 185 mm ²	
 stranded 			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					
 using the back clamping point 			250 500 kcm	nil	
 using the front clamping point 			3/0 600 kcm	nil	
 using both clamping points 			min. 2x 2/0. m	ax. 2x 500 kcmil	
type of connectable conductor cross-secti	ions for DIN				
cable lug for main contacts					
 finely stranded 			50 240 mm ²	2	
 stranded 			70 240 mm ²	2	
type of connectable conductor cross-section	ions for				
auxiliary contacts					
• solid			2x (0.5 2.5 r	mm²)	
 finely stranded with core end processin 	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				
 for auxiliary contacts finely stranded wit processing 	th core end		2x (20 16)		
	_				
Ambient conditions					
installation altitude at height above sea lev	vel	m	5 000		
environmental category					
 during transport according to IEC 6072 	1		2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
 during storage according to IEC 60721 			1K6 (only occa	asional condensation),	IC2 (no salt mist),
				st not get inside the dev	
 during operation according to IEC 6072 	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					
 during operation 		°C	60		
 during storage 		°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				
protection class IP on the front according 60529 touch protection on the front according to Certificates/ approvals					
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UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
 — at inside-delta circuit at 50 °C rated value 	hp	150
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	125
 — at inside-delta circuit at 50 °C rated value 	hp	200
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	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

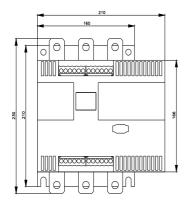
Cax online generator

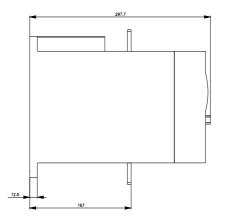
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4446-6BC34

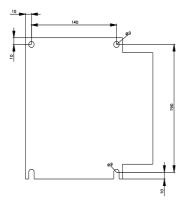
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

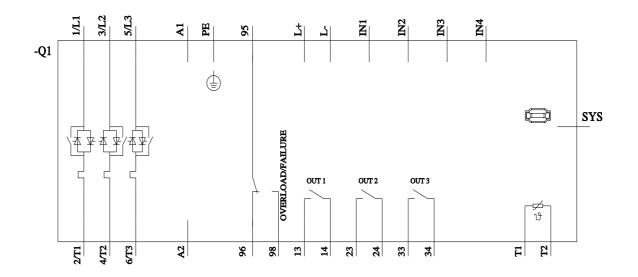
https://support.industry.siemens.com/cs/ww/en/ps/3RW4446-6BC34

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









last modified:

1/16/2022 🖸