SIEMENS

Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 432 A, 250 kW Inside-delta: 748 A, 400 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5547-6HA14<<

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	432
 at 50 °C rated value 	А	385
• at 60 °C rated value	А	335
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	748
 at 50 °C rated value 	А	667
 at 60 °C rated value 	А	580
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	132
 — at inside-delta circuit at 40 °C rated value 	kW	250
• at 400 V		
— at standard circuit at 40 °C rated value	kW	250
— at inside-delta circuit at 40 °C rated value	kW	400
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	125
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

3RW4447-6BC44

relative negative tolerance of the operating voltage at standard circuit % -15 relative positive tolerance of the operating voltage at standard circuit % 10 operating voltage at inside-defla circuit rated value V 200 relative negative tolerance of the operating voltage at inside-defla circuit % 10 relative negative tolerance of the operating voltage at inside-defla circuit % 8 relative negative tolerance of the operating voltage at inside-defla circuit % 8 relative negative tolerance of the operating voltage at inside-defla circuit % 8 adjustable motor current for motor overload protection minimum rated value % 10 continuous operating current (% of fl j at 40 °C during operation sput) voltage frequency 1 rated value Hz 60 control supply voltage frequency 1 rated value Hz 60 60 control supply voltage frequency 2 rated value Hz 60 60 control supply voltage frequency 2 rated value Hz 60 60 control supply voltage frequency 10 10 10 voltage frequency 10 10 10 voltage frequency 10 10 10 <th></th> <th></th> <th></th>			
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Connections/ Terminals type of electrical connection busbar connection • for main current circuit busbar connection • for auxiliary and control circuit screw-type terminals number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 3 number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point 1	wire length maximum	m	500
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type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point			
	main contacts for box terminal using the front clamping point		
• finely stranded with core end processing 70 240 mm ²			
• finely stranded without core end processing 70 240 mm ²	 finely stranded without core end processing 		
• stranded 95 300 mm ²			95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	main contacts for box terminal using the back		
finely stranded with core end processing 120 185 mm ²	 finely stranded with core end processing 		120 185 mm²

 finely stranded without core end proces 	sing		120 185 mn	1 ²	
stranded			120 240 mn	1 ²	
type of connectable conductor cross-sect					
main contacts for box terminal using both	clamping				
points				2	
 finely stranded with core end processin 	-			1 ² , max. 2x 185 mm ²	
 finely stranded without core end proces 	sing			1 ² , max. 2x 185 mm ²	
• stranded			max. 2x 70 mr	m², max. 2x 240 mm²	
type of connectable conductor cross-sect cables for main contacts for box terminal	ions at AWG				
using the back clamping point			250 500 kcr	nil	
			3/0 600 kcm		
using the front clamping point					
using both clamping points	iono for DIN		mm. 2x 2/0, m	ax. 2x 500 kcmil	
type of connectable conductor cross-sect cable lug for main contacts	IONS FOR DIN				
• finely stranded			50 240 mm ²	2	
stranded			70 240 mm ²		
	iono for		70 240 11111		
type of connectable conductor cross-sect auxiliary contacts	ions for				
• solid			2x (0.5 2.5 r	mm²)	
 finely stranded with core end processin 	g		2x (0.5 1.5 r	mm²)	
type of connectable conductor cross-sect	ions at AWG				
cables			0/0 500 1		
• for main contacts			2/0 500 kcm	111	
• for auxiliary contacts			2x (20 14)		
 for auxiliary contacts finely stranded wir processing 	th core end		2x (20 16)		
Ambient conditions	_		_	_	_
	vol		5 000		
installation altitude at height above sea le	vei	m	5 000		
environmental category	1		21/2 201 201	2M2 (may fall baight	0.2 m)
during transport according to IEC 6072	1			, 2M2 (max. fall height	
 during storage according to IEC 60721 			1K6 (only occasional condensation), 1C2 (no salt m 1S2 (sand must not get inside the devices), 1M4		1C2 (no sait mist),
 during operation according to IEC 6072 	1		3K6 (no forma	tion of ice, no condension nd must not get into the	ation), 3C3 (no salt
ambient temperature				ind material ger into the	,,,,
during operation		°C	60		
during storage		°C	-25 +80		
derating temperature		°C O°	40		
protection class IP on the front according	to IEC	Ŭ		h box terminal/cover	
60529			11 00, 11 20 With		
touch protection on the front according to	IEC 60529		finger-safe, for terminal/cover	vertical contact from the	ne front with box
Certificates/ approvals					
General Product Approval					EMC
<u>Confirmation</u>	(m)		ŝ	гпг	A
<u>OF</u>	(\mathbf{u})		(VL)	FAL	<u>/\varsistantials</u>
CSA	CCC		UL	LIIL	RCM
Declaration of Conformity	Test Certificates			Marine / Shipping	
	Type Test Certific-	<u>Specia</u>	al Test Certific-	State of the second	83
	ates/Test Report		ate		(「読品)
				ABS	m
					VERITAS
Marine / Shipping		othe	r		







hp	200
hp	150
hp	250
hp	300
hp	600
	B300 / R300
	hp hp hp

Further information

Simulation Tool for Soft Starters (STS)

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RW4447-6BC44

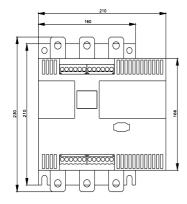
Cax online generator

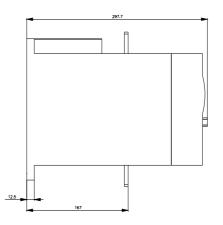
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4447-6BC44

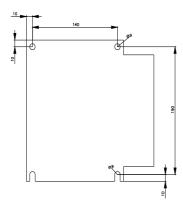
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

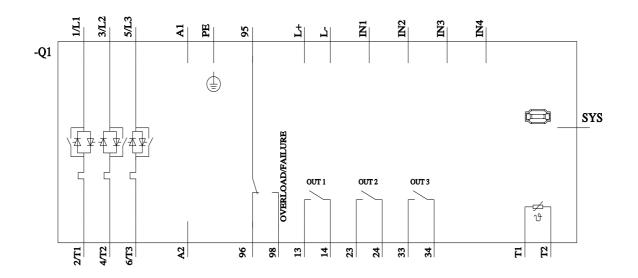
https://support.industry.siemens.com/cs/ww/en/ps/3RW4447-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4447-6BC44&lang=en









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1/16/2022 🖸