SIEMENS

Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 313 A, 160 kW Inside-delta: 542 A, 315 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5545-6HA14<<

3RW4445-6BC44

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	313
 at 50 °C rated value 	А	280
 at 60 °C rated value 	А	250
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	542
 at 50 °C rated value 	А	485
 at 60 °C rated value 	А	433
yielded mechanical performance for 3-phase motors • at 230 V		
— at standard circuit at 40 °C rated value	kW	90
— at inside-delta circuit at 40 °C rated value	kW	160
• at 400 V		
— at standard circuit at 40 °C rated value	kW	160
— at inside-delta circuit at 40 °C rated value	kW	315
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	75
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 200460 relative sporting voltage at an indiversity voltage at standard circuit rated value V 200460 relative sporting voltage at inside-data circuit rated value V 200460 operating voltage at inside-data circuit rated value V 200460 operating voltage at inside-data circuit rated value V 200460 relative sporting voltage at inside-data circuit rated value V 200460 relative sporting voltage at inside-data circuit rated value V 200460 relative sporting voltage at inside-data circuit rated value V 200460 operating voltage requency % 10 relative sporting voltage requency % 115 operating voltage requency / rated value Hz 60 control supply voltage frequency / rated value Hz 60 control supply voltage frequency / rated value Hz 60 control supply voltage frequency / rated value Y 220 relative sporting tolerance of the control supply % 10 voltage frequency Y 220 </th <th></th> <th></th> <th></th>			
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Inside-olitic circuit "The Control separating voltage at Inside-olitic circuit "Inside-olitic circuit "Inside-olitic circuit "Inside-olitic circuit "Inside olitic circuit "Inside olit	operating voltage at inside-delta circuit rated value	V	200 460
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 year loss (W) at operating current at 40 °C during operating current (% of lej at 40 °C year of voltage of the control supply voltage control supply voltage of the control supply with the control supply voltage frequency 1 rated value AC control supply voltage frequency 1 rated value Hz so control supply voltage frequency 1 rated value Hz so control supply voltage frequency 1 rated value Hz so control supply voltage frequency 2 rated value Hz so control supply voltage frequency 1 rated value Hz so control supply voltage frequency 1 rated value Hz so control supply voltage frequency 1 rated value Hz so control supply voltage frequency i support to control supply voltage frequency i support voltage i support voltage i support voltage i support voltage i su	minimum load [%]	%	8
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Control circuit/ Control Type of voltage of the control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply % -10 voltage frequency rated value Hz 60 e at 50 Hz rated value V 230 e at 50 Hz rated value V 230 e at 50 Hz rated value V 230 relative negative tolerance of the control supply % -15 voltage at AC at 50 Hz V 230 relative negative tolerance of the control supply % -15 voltage at AC at 50 Hz V 230 relative negative tolerance of the control supply % -15 voltage at AC at 60 Hz 9% 10 voltage at AC at 60 Hz 0 200 width mm 210 Mechanical data mm 230 width mm 230 e upwards mm 230 e downwards mm 5 with engith data mm 230 <t< th=""><th></th><th>W</th><th>145</th></t<>		W	145
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display version for fault signal Display Mechanical data	•	%	10
Machanical data mm 210 width mm 230 height mm 230 depth mm 238 fastening method mm 298 mounting position 298 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back required spacing with side-by-side mounting mm • upwards mm • downwards mm wite length maximum m number of poles for main current circuit 3 Connections/ Terminals busbar connection • for main current circuit busbar connection • for auxiliary and control circuit busbar connection • for auxiliary and control circuit busbar connection • finely stranded with core end processing 1 • finely stranded without core end processing 70 240 mm² • stranded 95 300 mm²	5		
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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
type of electrical connection• for main current circuit• for auxiliary and control circuitbusbar connection• for auxiliary and control circuitnumber of NC contacts for auxiliary contactsnumber of NO contacts for auxiliary contactsnumber of CO contacts for auxiliary contactsnumber of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point• finely stranded with core end processing• stranded• strandedtype of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	number of poles for main current circuit		3
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 finely stranded without core end processing stranded stranded 95 300 mm² 	main contacts for box terminal using the front clamping point		
• 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			
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	• stranded		95 300 mm²
finely stranded with core end processing 120 185 mm ²	main contacts for box terminal using the back		
			100 105 0

 finely stranded without core end processing 			120 185 mm	1 ²	
 stranded 			120 240 mm	1 ²	
type of connectable conductor cross-sections for					
main contacts for box terminal using both clamping	ng				
 points finely stranded with core end processing 			min 2v 50 mm	² , max. 2x 185 mm²	
 finely stranded with core end processing finely stranded without core end processing 				² , max. 2x 185 mm ²	
• stranded			max. 2x 70 mm	n², max. 2x 240 mm²	
type of connectable conductor cross-sections at a cables for main contacts for box terminal	AWG				
using the back clamping point			250 500 kcm	nil	
using the front clamping point			3/0 600 kcm		
				ax. 2x 500 kcmil	
using both clamping points			11111. ZX Z/U, 111	ax. 2x 500 kcmii	
type of connectable conductor cross-sections for cable lug for main contacts	DIN				
• finely stranded			50 240 mm²	1	
stranded			70 240 mm ²		
type of connectable conductor cross-sections for			70 240 mm		
auxiliary contacts					
• solid			2x (0.5 2.5 r	nm²)	
 finely stranded with core end processing 			2x (0.5 1.5 r		
type of connectable conductor cross-sections at	AWG		(, , , , , , , , , , , , , , , , , , ,	,	
cables					
for main contacts			2/0 500 kcm	il	
 for auxiliary contacts 			2x (20 14)		
 for auxiliary contacts finely stranded with core explanation 	end		2x (20 16)		
processing					
Ambient conditions					
installation altitude at height above sea level		m	5 000		
environmental category					
 during transport according to IEC 60721 			2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
 during storage according to IEC 60721 			1K6 (only occa	asional condensation),	1C2 (no salt mist),
				st not get inside the de	
 during operation according to IEC 60721 				tion of ice, no condens	
			mist), 352 (sar	nd must not get into the	e devices), sivio
ambient temperature			<u></u>		
during operation		°C	60		
during storage		°C	-25 +80		
derating temperature	Ĭ	°C	40		
protection class IP on the front according to IEC 60529			1P00; 1P20 with	n box terminal/cover	
touch protection on the front according to IEC 60	529		finger-safe for	vertical contact from t	he front with box
	010		terminal/cover		
Certificates/ approvals					
General Product Approval					EMC
<u>Confirmation</u>			\sim		A
(5)) (()		(VL)	FHL	Λ A
	<u> </u>		Ŷ	LIIL	BCM
Con Con	ccc		02		100 M
Declaration of Conformity Test C	Certificates			Marine / Shipping	
	Toot Contifie	Oner			ANTE:
	<u>Test Certific-</u> Test Report	Specia	al Test Certific- ate	- 1 4 C	EL.
	report			1. 200	
EG-Konf.				ABS	BUREAU
					VERITAS
Marina / Shinning		athr			
Marine / Shipping		othe			







hp	150
hp	100
hp	200
hp	200
hp	400
	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=3RW4445-6BC44

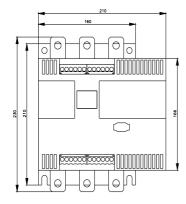
Cax online generator

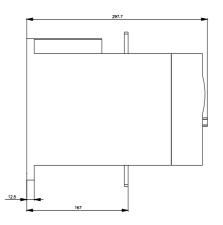
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4445-6BC44

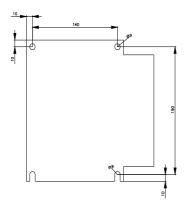
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

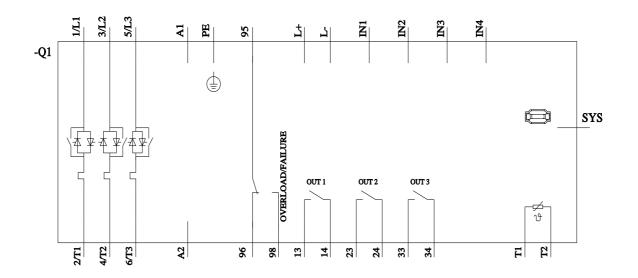
https://support.industry.siemens.com/cs/ww/en/ps/3RW4445-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4445-6BC44&lang=en









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