SIEMENS

Data sheet 3RW44 43-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 203 A, 110 kW Inside-delta: 352 A, 200 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA14<<

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 acc. to DIN EN 61346-2		Q	
Reference code acc. to DIN 40719 extended		G	
according to IEC 204-2 acc. to IEC 750			

Power Electronics		
Product designation		Soft starter
Operating current		
• at 40 °C rated value	Α	203
• at 50 °C rated value	Α	180
• at 60 °C rated value	Α	156
Operating current for three-phase motors at inside-		
delta circuit		
● at 40 °C rated value	Α	352
● at 50 °C rated value	Α	312
● at 60 °C rated value	Α	270
Mechanical power output for three-phase motors		
● at 230 V		
 — at standard circuit at 40 °C rated value 	W	55 000
— at inside-delta circuit at 40 °C rated value	W	110 000
● at 400 V		
 — at standard circuit at 40 °C rated value 	W	110 000
— at inside-delta circuit at 40 °C rated value	W	200 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50
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 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-delta circuit rated value	V	200 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [%]	%	8
Adjustable motor current for motor overload protection minimum rated value	А	40
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	89
Control circuit/ Control		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 rated value	Hz	50

Control supply voltage frequency 2 rated value	Hz	60	
Relative negative tolerance of the control supply voltage frequency	%	-10	
Relative positive tolerance of the control supply voltage frequency	%	10	
Control supply voltage 1 at AC			
• at 50 Hz rated value	V	230	
• at 60 Hz rated value	V	230	
Relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15	
Relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10	
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15	
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10	
Display version for fault signal		Display	
Mechanical data			
Width	mm	210	

Mechanical data				
Width	mm	210		
Height	mm	230		
Depth	mm	298		
Mounting type		screw fixing		
Mounting position		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				
• upwards	mm	100		
• at the side	mm	5		
downwards	mm	75		
Wire length maximum	m	500		
Number of poles for main current circuit		3		

Connections/ Terminals	
Type of electrical connection	
• for main current circuit	busbar connection
 for auxiliary and control current 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	
 finely stranded with core end processing 	70 240 mm²
 finely stranded without core end processing 	70 240 mm²

• stranded	95 300 mm²
Type of connectable conductor cross-sections for	
main contacts for box terminal using the back	
clamping point	
finely stranded with core end processing	120 185 mm²
 finely stranded without core end processing 	120 185 mm²
• stranded	120 240 mm²
Type of connectable conductor cross-sections for	
main contacts for box terminal using both clamping points	
 finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
• finely stranded without core end processing	min. 2x 50 mm², max. 2x 185 mm²
• stranded	max. 2x 70 mm², max. 2x 240 mm²
Type of connectable conductor cross-sections at	
AWG conductors for main contacts for box terminal	050 5001 11
 using the back clamping point 	250 500 kcmil
using the front clamping point	3/0 600 kcmil
using both clamping points	min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-sections for DIN cable lug for main contacts	
finely stranded	50 240 mm²
• stranded	70 240 mm²
Type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
• finely stranded with core end processing	2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for main contacts	2/0 500 kcmil
• for auxiliary contacts	2x (20 14)
 for auxiliary contacts finely stranded with core end processing 	2x (20 16)
	ZA (20 10)

Ambient conditions				
Installation altitude at height above sea level	m	5 000		
Environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
Ambient temperature				
during operation	°C	60		

during storage	°C	-25 + 80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Declaration of Conformity	Test Certificates		Marine / Ship	pping	
Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	Lloyd's Register

Marine / Shipping

other





Confirmation

UL/CSA ratings				
Yielded mechanical performance [hp] for three-phase				
AC motor				
● at 200/208 V				
— at inside-delta circuit at 50 °C rated value	hp	100		
● at 220/230 V				
 at standard circuit at 50 °C rated value 	hp	60		
— at inside-delta circuit at 50 °C rated value	hp	125		
● at 460/480 V				
 at standard circuit at 50 °C rated value 	hp	125		
— at inside-delta circuit at 50 °C rated value	hp	250		
Contact rating of auxiliary contacts according to UL		B300 / R300		

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

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

www.siemens.com/sirius/catalogs

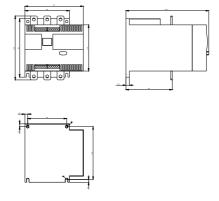
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4443-6BC44

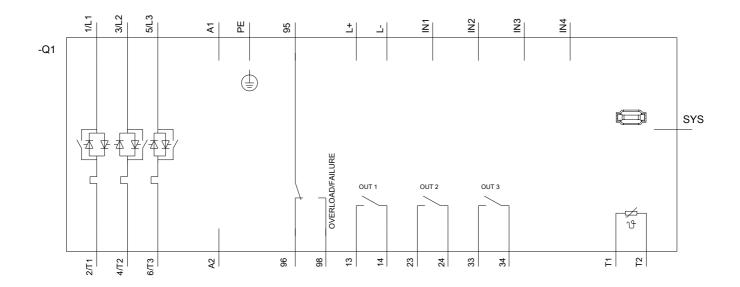
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-6BC44&lang=en





last modified: 09/25/2020