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

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			

	Soft starter			
Α	203			
Α	180			
Α	156			
Α	352			
Α	312			
Α	270			
W	55 000			
W	110 000			
W	110 000			
W	200 000			
hp	50			
Hz	50 60			
%	-10			
%	10			
V	200 460			
%	-15			
%	10			
V	200 460			
%	-15			
%	10			
%	8			
A	40			
%	115			
W	89			
Control electronics				
	AC			
Hz	50			
	A A A A A A A A W W W hp hp hz % W W % % W % W % W % W % W % W W W W			

Control supply voltage frequency 2 rated value	Hz	60
Relative negative tolerance of the control supply	%	-10
voltage frequency		
Relative positive tolerance of the control supply	%	10
voltage frequency		
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	%	-15
voltage at AC at 50 Hz		
Relative positive tolerance of the control supply	%	10
voltage at AC at 50 Hz		
Relative negative tolerance of the control supply	%	-15
voltage at AC at 60 Hz		
Relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz		
Display version for fault signal		Display
Mechanical data		
Width	mm	210
(height)	mm	230
Depth	mm	298
(mounting type)		screw fixing
(mounting position)		with vertical mounting surface +/-90° rotatable, with

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	
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)

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 during operation acc. to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 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

General Product Approval EMC Declaration of Conformity













Declaration of Conformity	Test Certificates		Shipping App	proval	
Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	Lloyd's Register

Shipping Ap-	other
proval	



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,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

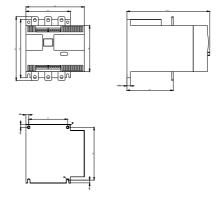
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4443-6BC44

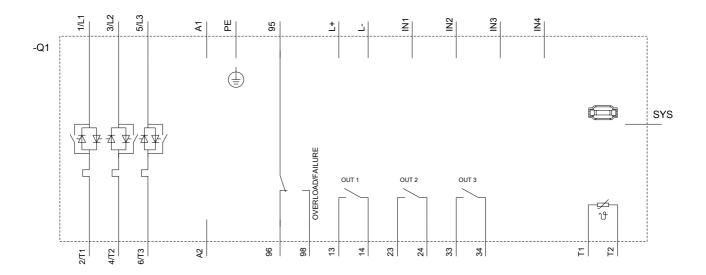
Cax online generator

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





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