SIEMENS

Data sheet 3RW44 36-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 162 A, 90 kW Inside-delta: 281 A, 160 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5536-6HA14<<

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	162		
• at 50 °C rated value	Α	145		
● at 60 °C rated value	Α	125		
Operating current for three-phase motors at inside-				
delta circuit				
• at 40 °C rated value	Α	281		
• at 50 °C rated value	Α	251		
• at 60 °C rated value	Α	217		
Mechanical power output for three-phase motors				
● at 230 V				
 — at standard circuit at 40 °C rated value 	W	45 000		
— at inside-delta circuit at 40 °C rated value	W	90 000		
● at 400 V				
— at standard circuit at 40 °C rated value	W	90 000		
— at inside-delta circuit at 40 °C rated value	W	160 000		
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	40		
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	A	32		
Continuous operating current [% of le] at 40 °C	%	115		
Power loss [W] at operating current at 40 °C during operation typical	W	95		
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			

Mechanical data				
Width	mm	170		
Height	mm	200		
Depth	mm	270		
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 		16 70 mm²		
 finely stranded without core end processing 		16 70 mm²		

• stranded	16 70 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	
 finely stranded with core end processing 	16 70 mm²
 finely stranded without core end processing 	16 70 mm²
• stranded	16 70 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	
 finely stranded with core end processing 	max. 1x 50 mm², 1x 70 mm²
 finely stranded without core end processing 	max. 1x 50 mm², 1x 70 mm²
• stranded	max. 2x 70 mm ²
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal	
 using the back clamping point 	6 2/0
using the front clamping point	6 2/0
using both clamping points	max. 2x 1/0
Type of connectable conductor cross-sections for DIN cable lug for main contacts	
• finely stranded	16 95 mm²
• stranded	25 120 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	4 250 kcmil
• for auxiliary contacts	2x (20 14)
 for auxiliary contacts finely stranded with core end processing 	2x (20 16)
A 1.5 6 1995	

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	Test Certificates		Marine / Ship	oping	
Conformity					
Miscellaneous	Special Test Certificate	Type Test Certificates/Test Report	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	75		
● at 220/230 V				
 — at standard circuit at 50 °C rated value 	hp	50		
— at inside-delta circuit at 50 °C rated value	hp	100		
● at 460/480 V				
 — at standard circuit at 50 °C rated value 	hp	100		
— at inside-delta circuit at 50 °C rated value	hp	200		
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

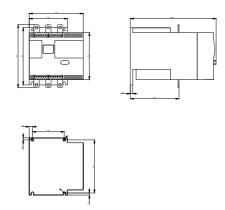
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4436-6BC44

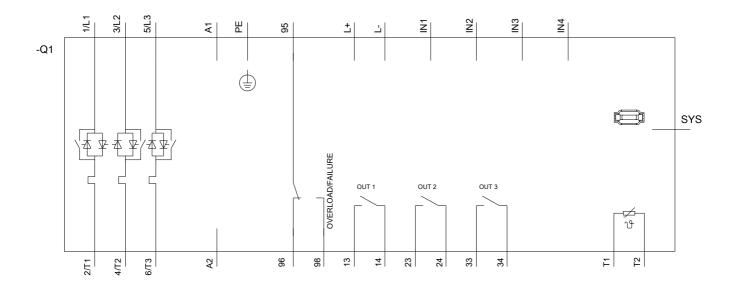
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4436-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4436-6BC44&lang=en





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