SIEMENS

Data sheet 3RW44 44-6BC44



SIRIUS soft starter Values at 400 V, 40 °C Standard: 250 A, 132 kW Inside-delta: 433 A, 250 kW 200-460 V AC, 230 V AC Screw terminals

December 1 and 1 and 1	_	CIPILIO
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
Reference identifier acc. to DIN EN 61346-2		Q
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G

Product designation

Soft starter

Operating current		
• at 40 °C rated value	Α	250
• at 50 °C rated value	Α	215
• at 60 °C rated value	Α	185
Operating current for three-phase motors at inside- delta circuit		
• at 40 °C rated value	Α	433
• at 50 °C rated value	Α	372
• at 60 °C rated value	Α	320
Mechanical power output for three-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	W	75 000
— at inside-delta circuit at 40 °C rated value	W	132 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	132 000
— at inside-delta circuit at 40 °C rated value	W	250 000
Yielded mechanical performance [hp] for three-phase	hp	60
AC motor at 200/208 V at standard circuit at 50 °C rated value		
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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	Α	50
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during	W	110
operation typical		
Control electronics		
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 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
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 	2x (20 16)
end processing	

Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
 during transport acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 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

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Shipping Approval

Type Test Certificates/Test Report

Special Test Certificate









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	125
● at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	75
— at inside-delta circuit at 50 °C rated value	hp	150
● at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	150
— at inside-delta circuit at 50 °C rated value	hp	300
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,...)

Industry Mall (Online ordering system)

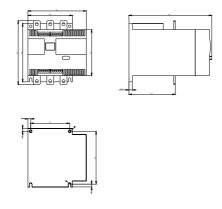
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4444-6BC44

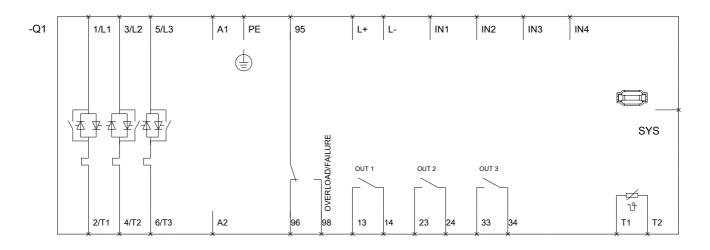
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4444-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-6BC44&lang=en





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