SIEMENS

Data sheet 3RW44 47-2BC44



SIRIUS soft starter Values at 400 V, 40 °C Standard: 432 A, 250 kW Inside-delta: 748 A, 400 kW 200-460 V AC, 230 V AC spring-type terminals

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

Α	432
Α	385
Α	335
Α	748
Α	667
Α	580
W	132 000
W	250 000
W	250 000
W	400 000
hp	125
Hz	50 60
%	-10
	10
	200 460
%	-15
%	10
V	200 460
%	-15
%	10
%	8
Α	86
%	115
W	232
	AC
Hz	50
Hz	60
	A A A A A A W W W W hp Hz % % V % % V % W W Hz

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 	spring-loaded 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 (0.25 1.5 mm²)
• finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for main contacts	2/0 500 kcmil
• for auxiliary contacts	2x (24 16)

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

Special Test Certificate

Type Test Certificates/Test Report









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	200
● at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	150
— at inside-delta circuit at 50 °C rated value	hp	250
● at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	300
— at inside-delta circuit at 50 °C rated value	hp	600
Contact rating of auxiliary contacts according to UL		B300 / R300

Further information

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)

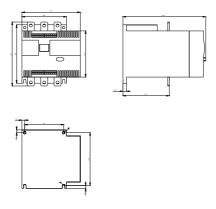
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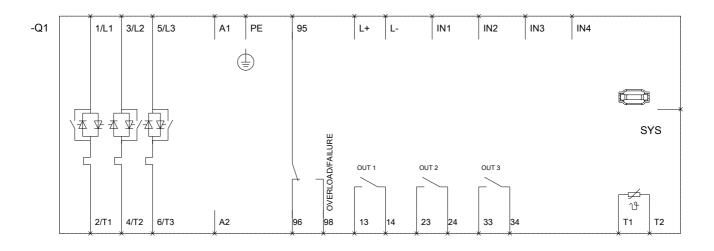
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4447-2BC44

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4447-2BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4447-2BC44&lang=en





last modified: 09/21/2018