SIEMENS

Data sheet 3RW4443-6BC44



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 according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	Α	203
 at 50 °C rated value 	Α	180
at 60 °C rated value	Α	156
operational current for 3-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
yielded mechanical performance for 3-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 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50

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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	Α	40		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational 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		
height	mm	230		
depth	mm	298		
fastening method		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 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	1	
finely stranded without core end processing		70 240 mm ²		
• 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 mn	n ²	
finely stranded with our end processing finely stranded without core end processing		120 185 mm		
stranded stranded		120 240 mm	•	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		120 210 1111		
 finely stranded with core end processing 		min. 2x 50 mm	n², max. 2x 185 mm²	
 finely stranded without core end processing 		min. 2x 50 mm	n², max. 2x 185 mm²	
• stranded		max. 2x 70 mr	n², max. 2x 240 mm²	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
 using the back clamping point 		250 500 kcr	nil	
 using the front clamping point 		3/0 600 kcm	nil	
using both clamping points		min. 2x 2/0, m	ax. 2x 500 kcmil	
type of connectable conductor cross-sections for DIN cable lug for main contacts				
finely stranded		50 240 mm ²	1	
stranded		70 240 mm²	!	
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.5 2.5 r	mm²)	
finely stranded with core end processing		2x (0.5 1.5 r	mm²)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	nil	
 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		1S2 (sand mus	asional condensation), st not get inside the dev	vices), 1M4
during operation acc. to IEC 60721			tion of ice, no condensand must not get into the	
ambient temperature				
during operation	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00; IP20 with box terminal/cover		
touch protection on the front acc. to IEC 60529		finger-safe, for terminal/cover	vertical contact from the	ne front with box
Certificates/ approvals				
General Product Approval			EMC	Declaration of Conformity













Test Certificates Marine / Shipping









Marine / Shipping

other



Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-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

Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

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

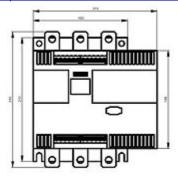
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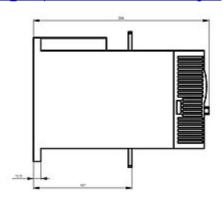
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4443-6BC44}$

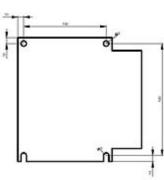
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

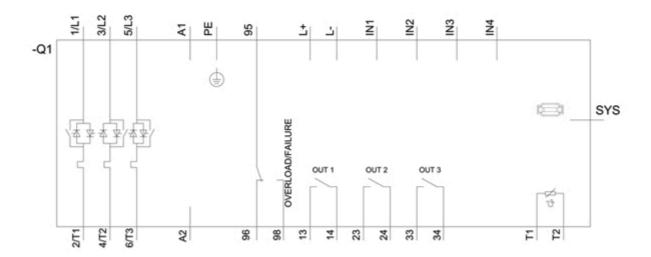
https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC44

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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