SIEMENS

Data sheet 3RW4444-6BC44



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 !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5544-6HA14<<

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	250
 at 50 °C rated value 	Α	215
 at 60 °C rated value 	Α	185
operational current for 3-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
yielded mechanical performance for 3-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 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	60

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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	А	50		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	110		
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				

General Product Approval			EMC	Declaration of Conformity	
ertificates/ approvals		terminal/cover			
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with box			
protection class IP on the front acc. to IEC 60529			IP00; IP20 with box terminal/cover		
derating temperature	°C	40			
during storage	°C	-25 +80			
during operation	°C	60			
ambient temperature		mist), 3S2 (sai	nd must not get into the	e devices), 3M6	
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			
during storage acc. to IEC 60721 during storage acc. to IEC 60721			` `		
during transport acc. to IEC 60721		2K2 2C1 2S1	, 2M2 (max. fall height	0.3 m)	
environmental category	- 111	3 000			
installation altitude at height above sea level	m	5 000			
mbient conditions					
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)			
for auxiliary contacts		2x (20 14)			
• for main contacts		2/0 500 kcm	nil		
type of connectable conductor cross-sections at AWG cables					
 finely stranded with core end processing 		2x (0.5 1.5 r	mm²)		
• solid		2x (0.5 2.5 r	mm²)		
auxiliary contacts					
type of connectable conductor cross-sections for	_	70 240 111111			
stranded stranded		70 240 mm²			
cable lug for main contacts • finely stranded		50 240 mm²			
type of connectable conductor cross-sections for DIN					
using both clamping points	_	min. 2x 2/0, m	ax. 2x 500 kcmil		
using the front clamping point		3/0 600 kcm			
using the back clamping point		250 500 kcr			
cables for main contacts for box terminal					
type of connectable conductor cross-sections at AWG	_	IIIax. 2x 70 IIII	II , IIIax. 2x 240 IIIII		
 finely stranded without core end processing stranded 			n ² , max. 2x 185 mm ² m ² , max. 2x 240 mm ²		
finely stranded with core end processing finely stranded without core and processing			n², max. 2x 185 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		min 0v 50 man	2		
• stranded	_	120 240 mn	1 ²		
 finely stranded without core end processing 		120 185 mn			
 finely stranded with core end processing 		120 185 mn			
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point					
• stranded		95 300 mm²			
 finely stranded without core end processing 		70 240 mm²	!		
			2		













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	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

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=3RW4444-6BC44

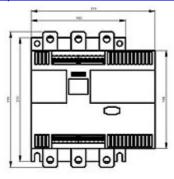
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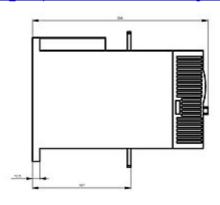
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4444-6BC44}$

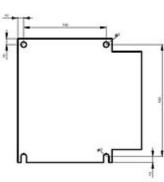
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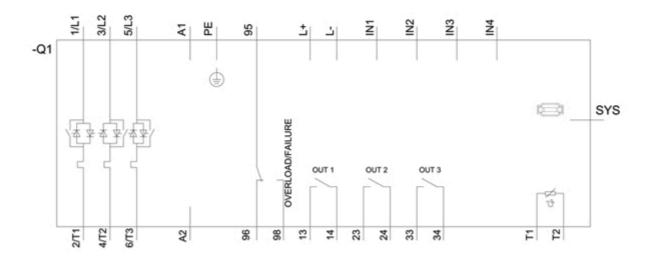
https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-6BC44

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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