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	%	10
voltage frequency	-	
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	
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		120 185 mm²	
finely stranded with core end processing finely stranded without core and processing			
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 cables 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 cables			
for main contacts		2/0 500 kcmil	
 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		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 condens mist), 3S2 (sand must not get into the	
ambient temperature			
 during operation 	°C	60	
during storage	°C	-25 +80	
derating temperature	°C	40	
protection class IP		IP00	
Certificates/ approvals			













Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test
Certificates/Test
Report

Special Test Certificate





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

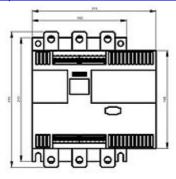
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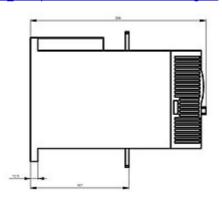
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4444-6BC44}$

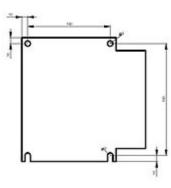
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

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

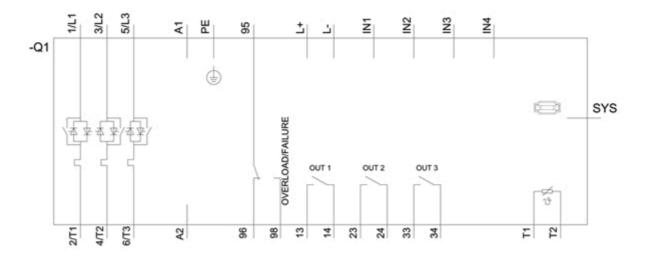
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-6BC44&lang=en











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