## SIEMENS

## Data sheet

## 3RW4458-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 970 A, 560 kW Inside-delta: 1680 A, 1000 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

product brand name		SIRIUS
product brand name		5IKIU5
product feature		N/
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	970
• at 50 °C rated value	А	850
• at 60 °C rated value	А	760
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	1 680
• at 50 °C rated value	А	1 472
• at 60 °C rated value	А	1 316
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	315 000
— at inside-delta circuit at 40 °C rated value	W	560 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	560 000
— at inside-delta circuit at 40 °C rated value	W	1 000 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated	hp	300
value		

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	A	194
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	270
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	%	-10
voltage frequency	%	10
relative positive tolerance of the control supply voltage frequency	- 70	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	510
height	mm	640
depth	mm	290
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
<ul> <li>for auxiliary and control circuit</li> </ul>		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 DIN cable lug for main contacts	-	
finely stranded		50 240 mm²
stranded		70 240 mm <sup>2</sup>
- oranaca		

type of connectable co auxiliary contacts	nductor cross-section	ons for					
solid				2x (0.5 2.5	mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>				2x (0.5 1.5 mm <sup>2</sup> )			
type of connectable co cables							
for main contacts				2/0 500 kcmil			
<ul> <li>for auxiliary contact</li> </ul>				2x (20 14)			
-	cts finely stranded with	n core end		2x (20 16)			
Ambient conditions							
installation altitude at I	height above sea lev	el	m	5 000			
environmental categor				0.000			
<ul> <li>during transport ad</li> </ul>				2K2 2C1 2S	1 2M2 (max_fall_heig	ht 0.3 m)	
during storage acc					2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist),		
	. 10 120 00721				ist not get inside the c		
<ul> <li>during operation a</li> </ul>	cc. 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							
<ul> <li>during operation</li> </ul>			°C	60			
<ul> <li>during storage</li> </ul>			°C	-25 +80			
derating temperature			°C	40			
protection class IP on	the front acc. to IEC	60529		IP00			
Certificates/ approvals							
General Product Appr	oval				EMC	Declaration of Conformity	
		(UL)		EHC	RCM	CE EG-Konf.	
Test Certificates	Marine / Shipping						
Special Test Certific- ate	ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	EMAL CONTACT	
other							
<u>Confirmation</u>							
UL/CSA ratings							
yielded mechanical per	rformanco [bp] for 3	phase AC					
motor	inormance [rip] for 3-	Pliase AC					

Further information

• at 200/208 V

• at 220/230 V

• at 460/480 V

- at inside-delta circuit at 50 °C rated value

- at inside-delta circuit at 50 °C rated value

- at standard circuit at 50 °C rated value

- at standard circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

- at inside-delta circuit at 50 °C rated value

hp

hp

hp

hp

hp

550

350

650

750

1 300

B300 / R300

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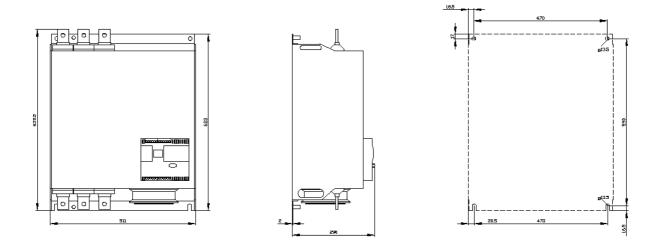
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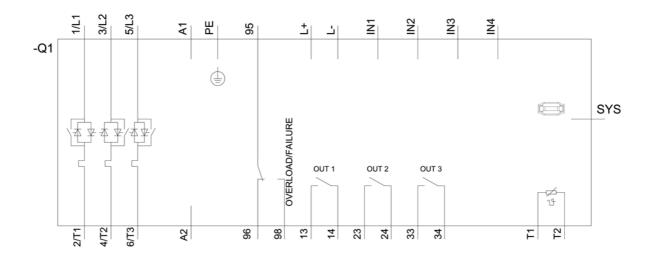
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4458-6BC44

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4458-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4458-6BC44&lang=en





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