## SIEMENS

## Data sheet

## 3RW4056-6BB44



SIRIUS soft starter S6 162 A, 90 kW/400 V, 40 °C 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-6AB14<<

product brand name		SIRIUS
product feature		011100
integrated bypass contact system		Yes
thyristors		Yes
product function		
		Vec
intrinsic device protection		Yes
motor overload protection		Yes
evaluation of thermistor motor protection		No
• external reset		Yes
adjustable current limitation		Yes
inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
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
ower Electronics		-
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	А	162
<ul> <li>at 50 °C rated value</li> </ul>	А	145
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	45 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	90 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	40
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

	_	
standard circuit		
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	87
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	75
operation typical		
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		
<ul> <li>at 50 Hz rated value</li> </ul>	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		red
Mechanical data		
size of engine control device	_	S6
width	mm	120
height	mm	198
depth	mm	250
fastening method		screw fixing
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
downwards	mm	75
wire length maximum	m	300
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		2
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		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
stranded		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		
clamping point		
<ul> <li>clamping point</li> <li>finely stranded with core end processing</li> </ul>		16 70 mm²

• stranded		16 70 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
<ul> <li>finely stranded with core end processing</li> </ul>		max. 1x 50 mr	n², 1x 70 mm²	
<ul> <li>finely stranded without core end processing</li> </ul>		max. 1x 50 mr	n², 1x 70 mm²	
• stranded		max. 2x 70 mr		
type of connectable conductor cross-sections at AWC cables for main contacts for box terminal	3			
<ul> <li>using the back clamping point</li> </ul>		6 2/0		
<ul> <li>using the front clamping point</li> </ul>		6 2/0		
<ul> <li>using both clamping points</li> </ul>		max. 2x 1/0		
type of connectable conductor cross-sections for DIN cable lug for main contacts	l			
<ul> <li>finely stranded</li> </ul>		2x (16 95 m	m²)	
stranded		2x (25 120 r	mm²)	
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.5 2.5 r	mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 r	mm²)	
type of connectable conductor cross-sections at AWC cables	3			
<ul> <li>for main contacts</li> </ul>		4 250 kcmil		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1	, 2M2 (max. fall heigh	it 0.3 m)
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1K6 (only occa	asional condensation)	, 1C2 (no salt mist),
• during operation acc. to IEC 60721		3K6 (no forma	st not get inside the de tion of ice, no conden	sation), 3C3 (no salt
embient temperature		mist), 552 (Sai	nd must not get into th	ie devices), sivio
ambient temperature	°C	-25 +60		
<ul> <li>during operation</li> <li>during storage</li> </ul>	O°			
derating temperature	0°			
protection class IP on the front acc. to IEC 60529		IP00; IP20 with	a cover	
touch protection on the front acc. to IEC 60529			vertical contact from	the front with cover
-	-	illiger-sale, ioi		
Certificates/ approvals				
General Product Approval			EMC	For use in hazard- ous locations
		FAL	$\bigotimes$	(Ex)
CSA CCC UL			RCM	ATEX
Declaration of Conformity Test Certi	ificates	Marine / Shipping		other
Miscellaneous CC Special Tes		-Llovd's	A STOCKED BY	<b>Confirmation</b>
EG-Konf.	2	us	DNV-GL	
UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC				
motor				

• at 220/230 V						
— at standard circuit at 50 °C rated value	hp	50				
• at 460/480 V						
- at standard circuit at 50 °C rated value	hp	100				
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=3RW4056-6BB44

Cax online generator

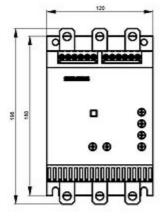
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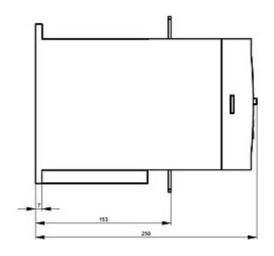
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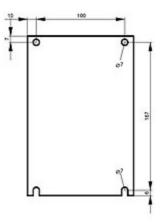
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

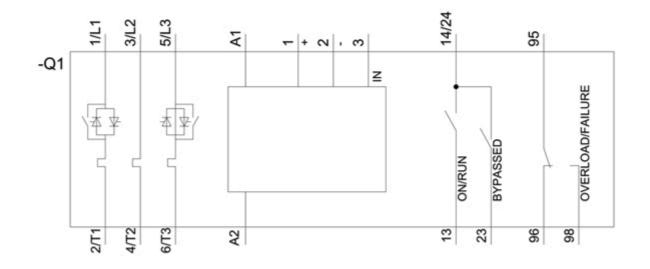
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4056-6BB44&lang=en









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