## 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<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function	-	
intrinsic device protection		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		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
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	162
• at 50 °C rated value	А	145
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20

adjustable motor current for motor overload protection minimum rated value	A	87
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	75
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
<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		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>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 both clamping points		

		_						
<ul> <li>finely stranded</li> </ul>	d with core end processin	Ig		max. 1x 50 r	mm², 1x 70 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>			max. 1x 50 mm², 1x 70 mm²					
• stranded				max. 2x 70 mm <sup>2</sup>				
	e conductor cross-sect ntacts for box terminal	ions at AWG						
<ul> <li>using the back</li> </ul>	using the back clamping point			6 2/0				
using the front clamping point			6 2/0					
using both clamping points				max. 2x 1/0				
	e conductor cross-sect	ions for DIN						
<ul> <li>finely stranded</li> </ul>	-			2x (16 95 mm²)				
<ul> <li>stranded</li> </ul>	-			2x (25 120 mm <sup>2</sup> )				
type of connectabl auxiliary contacts	e conductor cross-sect	ions for		, , , , , , , , , , , , , , , , , , ,	,			
• solid	-			2x (0.5 2.5 mm²)				
<ul> <li>finely stranded</li> </ul>	d with core end processin	a		2x (0.5 1.5 mm <sup>2</sup> )				
	e conductor cross-sect							
cables								
<ul> <li>for main contain</li> </ul>	icts			4 250 kcn	nil			
<ul> <li>for auxiliary co</li> </ul>	ontacts			2x (20 14)				
<ul> <li>for auxiliary co processing</li> </ul>	<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>				2x (20 16)			
Ambient conditions								
installation altitude	e at height above sea le	vel	m	5 000				
environmental cate	gory							
<ul> <li>during transport</li> </ul>	• during transport acc. to IEC 60721			2K2, 2C1, 2	S1, 2M2 (max. fall heigh	nt 0.3 m)		
	e acc. to IEC 60721			1K6 (only oc	casional condensation)	, 1C2 (no salt mist),		
					nust not get inside the d			
<ul> <li>during operation</li> </ul>	during operation acc. to IEC 60721			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
ambient temperatu	re							
<ul> <li>during operation</li> </ul>	on		°C	-25 +60				
<ul> <li>during storage</li> </ul>	9		°C	-40 +80				
derating temperatu	derating temperature °C			40				
protection class IP	protection class IP on the front acc. to IEC 60529			IP00; IP20 with cover				
touch protection of	n the front acc. to IEC 6	0529		finger-safe,	for vertical contact from	the front with cover		
Certificates/ approva	als							
General Product A					EMC	For use in hazard- ous locations		
		-			•	_		
SP SA		Ű		EHC	RCM	K ATEX		
Declaration of	Test Certificates	Marine / Shippir	ng		other			
Conformity			•					
CE	<u>Special Test Certific-</u> <u>ate</u>	Lloyd's Register		(DNV-GL)	Confirmation			
EG-Konf. UL/CSA ratings		LRS		DENGLEDING				
yielded mechanica motor	l performance [hp] for 3	3-phase AC						
<ul> <li>at 220/230 V</li> <li>at standa</li> </ul>	ard circuit at 50 °C rated v	value	hp	50				

- at 460/480 V
  - at standard circuit at 50 °C rated value

hp

100

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

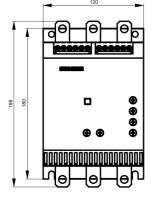
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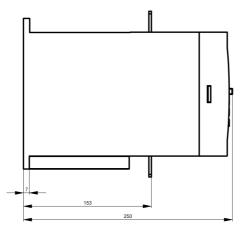
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB44

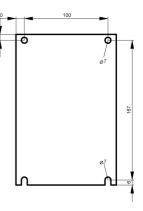
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

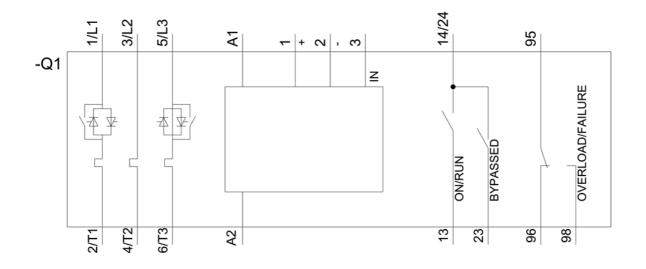
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB44

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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