## SIEMENS

## Data sheet

## 3RW4047-2BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	106
• at 50 °C rated value	А	98
• at 60 °C rated value	А	90
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	30
• at 400 V		
- at standard circuit at 40 °C rated value	kW	55
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
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	200 480
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	А	46

	0/	
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	21
Control circuit/ Control	_	
	_	
type of voltage of the control supply voltage		AC/DC
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
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
control supply voltage 1 at DC	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		S3
width	mm	70
height	mm	170
depth	mm	190
fastening method		screw and snap-on mounting
		With additional fan: With vertical mounting surface +/-90°
mounting position		rotatable, with vertical mounting surface +/-30 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	60
• at the side	mm	30
downwards	mm	40
wire length maximum		300
number of poles for main current circuit		3
Connections/ Terminals	_	0
type of electrical connection		
• for main current circuit		screw-type terminals
for auxiliary and control circuit		spring-loaded 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		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 35 mm <sup>2</sup>
stranded		4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm²
• stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		2x (2.5 35 mm <sup>2</sup> ) 2x (10 50 mm <sup>2</sup> )

type of connectable of cables for main conta	conductor cross-sections	for AWG						
using the back of				2x (10 1/0)				
using the front c				2x (10 1/0)				
<ul> <li>using both clam</li> </ul>				10 2/0				
type of connectable of	conductor cross-sections	for DIN cable		10 20				
lug for main contacts				0(10 50				
<ul> <li>finely stranded</li> </ul>				2 x (10 50 m				
stranded				2x (10 70 mm²)				
type of connectable c	conductor cross-sections	for auxiliary						
<ul> <li>solid</li> </ul>				2x (0.25 2.5 mm²)				
	vith core end processing			2x (0.25 1.5 mm <sup>2</sup> )				
-	conductor cross-sections	for AWG		,				
<ul> <li>for main contact</li> </ul>	S			2x (7 1/0)				
<ul> <li>for auxiliary cont</li> </ul>				2x (24 14)				
Ambient conditions		_		(_ · · · · · · )				
	t height above sea level		m	5 000				
environmental catego				0 000				
•	according to IEC 60721			2K2 2C1 2S1	, 2M2 (max. fall height 0.3	m)		
• ·	according to IEC 60721				sional condensation), 1C2	,		
					get inside the devices), 1			
<ul> <li>during operation</li> </ul>	according 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	-25 +60				
<ul> <li>during storage</li> </ul>			°C	-40 +80	-40 +80			
derating temperature			°C	40	40			
protection class IP or	n the front according to IE	C 60529		IP20	IP20			
touch protection on t	he front according to IEC	60529		finger-safe, for vertical contact from the front				
UL/CSA ratings	-							
yielded mechanical p	erformance [hp] for 3-pha	ase AC motor						
• at 220/230 V								
— at standard	d circuit at 50 °C rated value	e	hp	30				
• at 460/480 V								
— at standard	d circuit at 50 °C rated value	e	hp	hp 75				
contact rating of auxiliary contacts according to UL				B300 / R300				
Approvals Certificates								
General Product App	oroval							
	(m)	UK		"	<b>Confirmation</b>	ŝ		
90	$(\mathbf{m})$			CE		(VL)		
CSA	CCC	CA		EG-Konf.		Ŭ.		
General Product Approval	EMV			or use in hazard- us locations	Test Certificates			
pi o rui								
	<b>A</b>	<u>KC</u>			Special Test Certific-	Type Test Certific-		
FHI	· /公			<b>{x3}</b>	ate	ates/Test Report		
LIIL				ATEX				
	1.000			e of Barry				
Marine / Shipping			other		Railway			
2 2		1 Alexandre		Confirmation	Special Test Certific-	Confirmation		
T	Lloyd's	(33)			ate			
DNV	register							
DNV	LRS	PRS						
Environment								
Environment								

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4047-2BB14

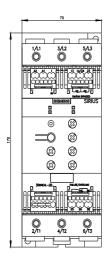
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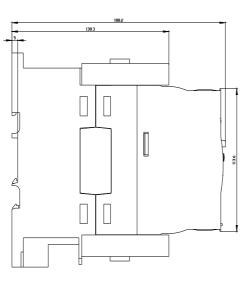
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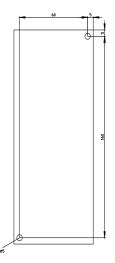
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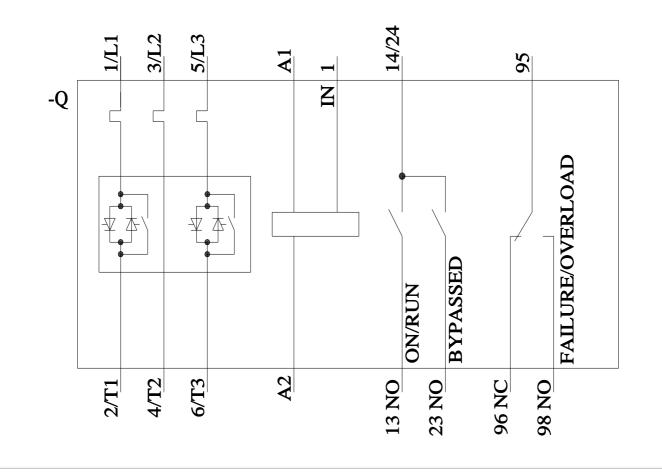
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4047-2BB14&lang=en









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