## SIEMENS

## Data sheet

## 3RW3047-2BB14



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				
<ul> <li>intrinsic device protection</li> </ul>		No		
<ul> <li>motor overload protection</li> </ul>		No		
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No		
external reset		No		
<ul> <li>adjustable current limitation</li> </ul>		No		
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	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	W	30 000		
• at 400 V				
- at standard circuit at 40 °C rated value	W	55 000		
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 [%]	%	10		

	- 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		
		AC/DC
type of voltage of the control supply voltage	– Hz	50
control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value	_ Hz Hz	60
relative negative tolerance of the control supply	%	-10
voltage frequency	/0	
relative positive tolerance of the control supply	%	10
voltage frequency	-	
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	%	-15
voltage at AC at 60 Hz		
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
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
downwards	mm	40
wire length maximum	m	300
number of poles for main current circuit		3
Connections/ Terminals		
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		1
number of CO contacts for auxiliary contacts	-	0
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 mm <sup>2</sup>
• stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		

		2x (2.5 16 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)	
stranded	_	2x (10 50 mm²)	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal			
<ul> <li>using the back clamping point</li> </ul>		10 2/0	
<ul> <li>using the front clamping point</li> </ul>		10 2/0	
<ul> <li>using both clamping points</li> </ul>		2x (10 1/0)	
type of connectable conductor cross-sections for DIN cable lug for main contacts			
<ul> <li>finely stranded</li> </ul>		2 x (10 50 mm²)	
stranded		2x (10 70 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.25 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
<ul> <li>for main contacts</li> </ul>		2x (7 1/0)	
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)	
mbient 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 height 0.3 m)	
during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mi 1S2 (sand must not get inside the devices), 1M4	st),
during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no 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	
	°C	40	
derating temperature	C	40	
protection class IP on the front acc. to IEC 60529	. C	40 IP20	
protection class IP on the front acc. to IEC 60529		IP20	

Speci <u>ate</u> ates/Test Report

<u>Confirmation</u>

UL/CSA ratings	_	
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	30
• at 460/480 V		
- at standard circuit at 50 °C rated value	hp	75
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=3RW3047-2BB14

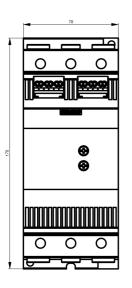
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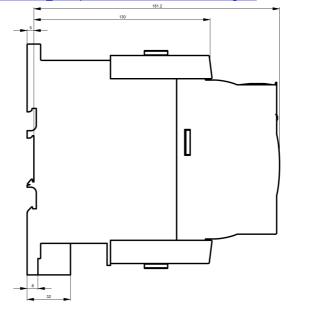
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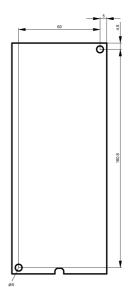
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

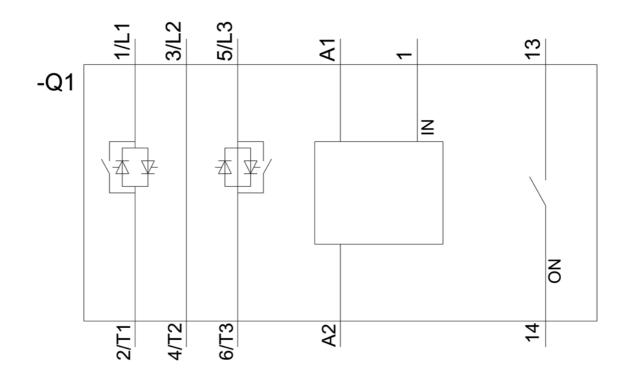
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3047-2BB14&lang=en









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