## SIEMENS

## Data sheet

## 3RW3047-1BB14



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

General technical data		
product brand name		SIRIUS
product designation		Soft starter
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
blocking voltage of the thyristor maximum	V	1 600
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		
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	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 [%]	%	10

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	21
operation typical		
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	%	-10
frequency		
relative positive tolerance of the control supply voltage	%	10
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 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
		70
width	mm	
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
	_	5
Connections/ Terminals	_	
type of electrical connection		
for main current circuit		screw-type terminals
for auxiliary and control circuit		screw-type 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 mm <sup>2</sup>
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     with core end processing     stranded		10 70 mm <sup>2</sup>
type of connectable conductor cross-sections for main		iv / v mm
contacts for box terminal using both clamping points		0(0.5
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm <sup>2</sup> )
		2x (2.5 35 mm²) 2x (10 50 mm²)

EMV <u>KC</u>	Test Certificates           Type Test Certific- ates/Test Report         Spec	cial Test Certific- ate	other Miscellaneous	Confirmation	Railway Special Test Certific- ate	
EMV	Test Certificates		other		Railway	
ccc	EG-Konf.	CH	UL	LIIL	RCM	
$(\mathbf{x})$	CE	UK	(ŲL)	FAL	<u>ک</u>	
General Product Ap	oproval				EMV	
pprovals Certificates						
	xiliary contacts according to UL	_	B300 / R300			
	rd circuit at 50 °C rated value	hp				
• at 460/480 V	rd airquit at E0 °C rated value	h ar	75			
	rd circuit at 50 °C rated value	hp	30			
• at 220/230 V	rd airquit at E0 °C rate duration	,	20			
•	performance [hp] for 3-phase AC	- motor				
L/CSA ratings						
	tial [CO2 eq] after end of life	kg	-4.48			
0 0.	tial [CO2 eq] during operation	kg	140			
0.	tial [CO2 eq] during sales	kg				
0.	tial [CO2 eq] during manufacturing	g kg	18.6			
global warming poten	tial [CO2 eq] total	kg	154			
Environmental Produ	ct Declaration(EPD)		Yes			
nvironmental footpr	int					
	the front according to IEC 60529	<b>)</b>	finger-safe, for v	vertical contact from the	e front	
protection class IP of	on the front according to IEC 605	529	IP20			
derating temperatur	е	C°				
<ul> <li>during storage</li> </ul>		°C				
<ul> <li>during operation</li> </ul>	on	°C				
ambient temperatur	e					
<u> </u>	on according to IEC 60721		3K6 (no formatio	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
<ul> <li>during storage</li> </ul>	according to IEC 60721			1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
	rt according to IEC 60721			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
environmental categ						
	at height above sea level	m	5 000			
mbient conditions						
<ul> <li>for auxiliary contract</li> </ul>	ntacts		2x (20 14)			
<ul> <li>for main contact</li> </ul>			2x (7 1/0)			
cables						
	conductor cross-sections for A	WG				
	with core end processing		2x (0.5 1.5 m			
solid			2x (0.5 2.5 m	m²)		
type of connectable contacts	conductor cross-sections for au	ixiliary				
stranded			2x (10 70 mm	1 <sup>2</sup> )		
<ul> <li>finely stranded</li> </ul>			2 x (10 50 mn	,		
lug for main contact			o (10	2)		
type of connectable	conductor cross-sections for DI	IN cable				
<ul> <li>using both clar</li> </ul>			2x (10 1/0)			
<ul><li>using the back</li><li>using the front</li></ul>			10 2/0 10 2/0			

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=3RW3047-1BB14

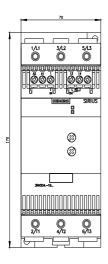
Cax online generator

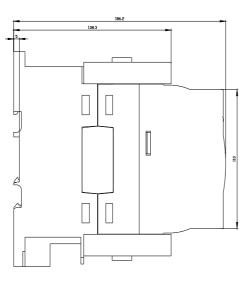
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB14

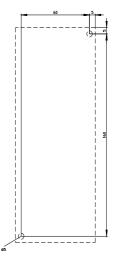
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

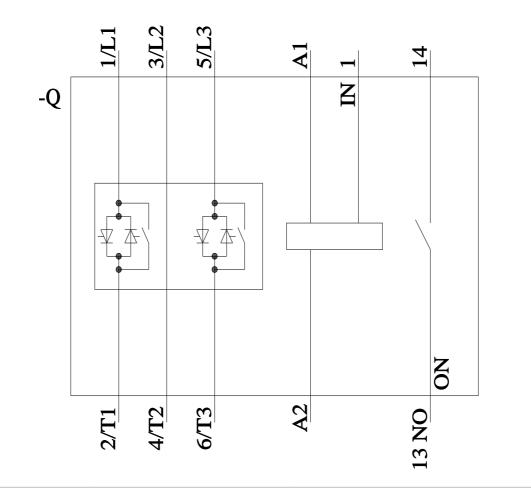
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3047-1BB14&lang=en









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