## 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

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AC at 60 Hz     V     110 230       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	
relative negative tolerance of the control supply voltage at DC     %     -15       relative positive tolerance of the control supply voltage at     %     10	
DC     Image and the second seco	
DC	
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 additional fan: With vertical munting su front and back Without additional fa sufficient additional fa surface +/-10° rotatable, with vertical munting su	Irface +/- 22.5° tiltable to the an: With vertical mounting
required spacing with side-by-side mounting	
• upwards mm 60	
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 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 mm <sup>2</sup> )	
• finely stranded with core end processing 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 mm <sup>2</sup> )	
• finely stranded with core end processing 2.5 50 mm <sup>2</sup>	
• stranded 10 70 mm <sup>2</sup>	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	
• solid 2x (2.5 16 mm <sup>2</sup> )	
• finely stranded with core end processing 2x (2.5 35 mm <sup>2</sup> )	
• stranded with cere and proceeding 2x (10 50 mm <sup>2</sup> )	

type of connectable conductor cross-sections for AWG cables for main contacts for box terminal				
<ul> <li>Using the back clamping point</li> </ul>		2x (10 1/0	)	
using the back clamping point		•	·	
using the front clamping point		2x (10 1/0 10 2/0	)	
using both clamping points type of connectable conductor cross-sections for DIN cable	ρ	10 2/0		
lug for main contacts	C			
<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		
<ul> <li>finely stranded with core end processing</li> </ul>	_	2x (0.25 1	.5 mm²)	
type of connectable conductor cross-sections for AWG cables				
for main contacts		2x (7 1/0)		
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)	)	
Ambient conditions		,		
installation altitude at height above sea level	m	5 000		
environmental category				
during transport according to IEC 60721		2K2, 2C1, 2S	S1, 2M2 (max. fall height 0.3	m)
<ul> <li>during storage according to IEC 60721</li> </ul>			casional condensation), 1C2	
			not get inside the devices), 1	
<ul> <li>during operation according to IEC 60721</li> </ul>			nation of ice, no condensation	
ambient temperature		JOZ (Sand III	nust not get into the devices),	
during operation	°C	-25 +60		
during sporador	°C			
derating temperature	°C			
protection class IP on the front according to IEC 60529		IP20		
touch protection on the front according to IEC 60529			or vertical contact from the fi	ont
UL/CSA ratings		iniger eare, i		ont
yielded mechanical performance [hp] for 3-phase AC moto	r			
• at 220/230 V				
— at standard circuit at 50 °C rated value	hp	30		
<ul> <li>— at standard circuit at 50 °C rated value</li> <li>at 460/480 V</li> </ul>	hp	30		
• at 460/480 V				
• at 460/480 V — at standard circuit at 50 °C rated value	hp hp	75		
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL				
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates		75		
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL		75		
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates     General Product Approval	hp	9 75 B300 / R300	Confirmation	0
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates     General Product Approval	hp	9 75 B300 / R300		س
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates     General Product Approval	hp	0 75 B300 / R300		٩
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates	hp	9 75 B300 / R300		<b>U</b> L
at 460/480 V     — at standard circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Approvals Certificates     General Product Approval	hp	0 75 B300 / R300		<b>U</b> L
	hp	0 75 B300 / R300	Confirmation	<b>U</b> L
	hp	0 75 B300 / R300 CE EG-Konf.		UL
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation Test Certificates	Unc Test Certific-
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation	Type Test Certific- ates/Test Report
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation Confirmation Test Certificates Special Test Certific-	Type Test Certific- ates/Test Report
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation Confirmation Test Certificates Special Test Certific-	<b>Experimental Control of Control </b>
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation Confirmation Test Certificates Special Test Certific-	Type Test Certific- ates/Test Report
	hp	75 B300 / R300 CCE EG-Konf.	Confirmation Confirmation Test Certificates Special Test Certific-	Type Test Certific-         ates/Test Report
	hp	o 75 B300 / R300 EG-Konf. For use in hazard- ous locations	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway	ates/Test Report
	hp	75 B300 / R300 EG-Konf.	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific-	Type Test Certific-         ates/Test Report         Confirmation
	hp	o 75 B300 / R300 EG-Konf. For use in hazard- ous locations	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway	ates/Test Report
	hp	o 75 B300 / R300 EG-Konf. For use in hazard- ous locations	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific-	ates/Test Report
<ul> <li>at 460/480 V <ul> <li>at standard circuit at 50 °C rated value</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> </ul> <li>Approvals Certificates <ul> <li>General Product Approval</li> </ul> </li> <li>General Product Approval</li> <li>EMV</li> <li>EMV</li> <li>EMV</li> <li>Marine / Shipping</li>	hp	o 75 B300 / R300 EG-Konf. For use in hazard- ous locations	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific-	ates/Test Report
<ul> <li>at 460/480 V <ul> <li>at standard circuit at 50 °C rated value</li> </ul> </li> <li>Contact rating of auxiliary contacts according to UL</li> </ul> <li>Approvals Certificates <ul> <li>General Product Approval</li> </ul> </li> <li>General Product Approval</li> <li>EMV</li> <li>EMV</li> <li>EMV</li> <li>Marine / Shipping</li>	hp	o 75 B300 / R300 EG-Konf. For use in hazard- ous locations	Confirmation Confirmation Test Certificates Special Test Certific- ate Railway Special Test Certific-	ates/Test Report



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

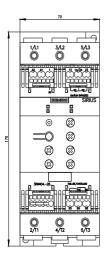
Cax online generator

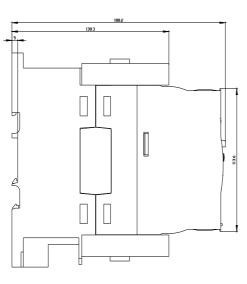
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB14

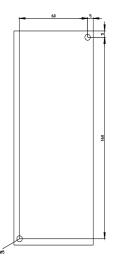
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

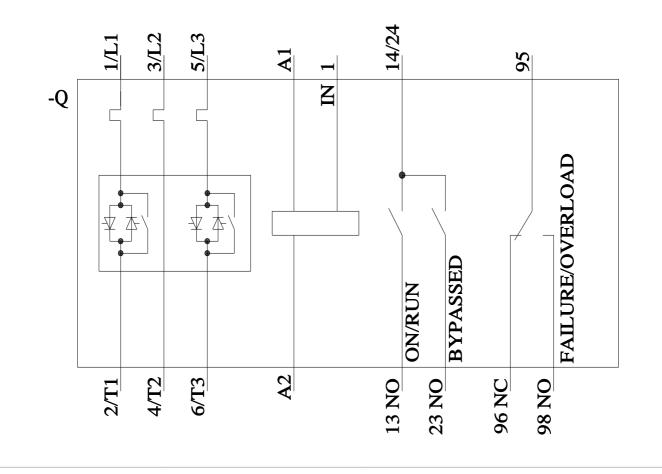
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4047-2BB14&lang=en









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