## SIEMENS

## Data sheet

## 3RW4047-1BB15



SIRIUS soft starter S3 106 A, 75 kW/500 V, 40  $^{\circ}\text{C}$  400-600 V AC, 110-230 V AC/DC Screw 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
motor overload protection		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 400 V		
— at standard circuit at 40 °C rated value	kW	55
• at 500 V		
- at standard circuit at 40 °C rated value	kW	75
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	400 600
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
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	Hz	AC/DC 50
control supply voltage frequency 1 rated value	HZ HZ	
control supply voltage frequency 2 rated value		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	%	-15
DC relative positive tolerance of the control supply voltage at	%	10
DC	70	
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 mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: 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	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		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		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 35 mm <sup>2</sup>
stranded     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		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>		2x (2.5 35 mm²)
stranded		2x (10 50 mm²)
type of connectable conductor cross-sections for AWG		

cables for main conta	cts for box terminal					
<ul> <li>using the back classifier</li> </ul>	amping point			2x (10 1/0)		
<ul> <li>using the front classifier</li> </ul>	amping point			2x (10 1/0)		
<ul> <li>using both clamp</li> </ul>	ing points			10 2/0		
type of connectable co lug for main contacts	onductor cross-sectior	ns for DIN cable				
<ul> <li>finely stranded</li> </ul>				2 x (10 50 m	m²)	
<ul> <li>stranded</li> </ul>				2x (10 70 mr	m²)	
type of connectable co contacts	onductor cross-sectior	ns for auxiliary				
<ul> <li>solid</li> </ul>				2x (0.5 2.5 n	וm²)	
<ul> <li>finely stranded w</li> </ul>	ith core end processing			2x (0.5 1.5 n	nm²)	
type of connectable co cables	onductor cross-sectior	ns for AWG				
<ul> <li>for main contacts</li> </ul>	3			2x (7 1/0)		
<ul> <li>for auxiliary containing</li> </ul>	acts			2x (20 14)		
	acts finely stranded with	core end		2x (20 16)		
processing						
Ambient conditions						
installation altitude at	height above sea level		m	5 000		
environmental catego	ry					
<ul> <li>during transport a</li> </ul>	according to IEC 60721			2K2, 2C1, 2S1	2M2 (max. fall height 0.3 n	n)
<ul> <li>during storage ac</li> </ul>	ccording to IEC 60721			1K6 (only occa	sional condensation), 1C2 (	no salt mist), 1S2
• during operation	according to IEC 60721			3K6 (no format	get inside the devices), 1M ion of ice, no condensation)	, 3C3 (no salt mist),
ambiant tomporature				552 (sand mus	t not get into the devices), 3	DIVIO
ambient temperature			°C	-25 +60		
during operation			°C	-40 +80		
during storage			0°	40 +80		
derating temperature	4h - far at	150 00500	C			
-	the front according to	IEC 60529		IP20		
-	ne front according to IE	C 60529			vertical contact from the fro	nt
Certificates/ approvals		C 60529			vertical contact from the fro	
-		EC 60529			vertical contact from the fro	nt EMC
Certificates/ approvals		C 60529 <u>Confirmatio</u>	'n		vertical contact from the fro	
Certificates/ approvals General Product Appr	roval			finger-safe, for	vertical contact from the fro	EMC
Certificates/ approvals General Product Appr CESA	roval	Confirmatio	es ertific- Ty	finger-safe, for	EHC	EMC
Certificates/ approvals General Product Appr CEA Declaration of Confor	roval	Confirmatio	es ertific- Ty	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Appr CESA Declaration of Confor CEG-Konf.	roval CCC mity UK	Confirmation	es ertific- <u>Ty</u> at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Appr CSA Declaration of Confor CSA Declaration of Confor CEG-Konf. Marine / Shipping	roval	Confirmation	es ertific- <u>Ty</u> at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Appr Certificates/ approvals General Product Appr Certificates/ approvals Certificates/ approvals Certificates	roval	Confirmation Confirmation Test Certificate Special Test Certificate Railway Vibration and S	es ertific- <u>Ty</u> at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Appr Certificates/ approvals General Product Appr Certificates/ approvals Certificates/ approvals Certificates	roval	Confirmation Confirmation Test Certificate Special Test Certificate Railway Vibration and S	es ertific- <u>Ty</u> at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
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Certificates/ approvals General Product Appr Certificates/ approvals General Product Appr Certificates/ approvals Certificates/ approvals Certificates	roval	Confirmation Confi	es ertific- <u>Ty</u> at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Appr Certificates/ approvals General Product Appr Certificates/ approvals Certificates/ approvals Certificates	roval ccc mity Ccc other Confirmation erformance [hp] for 3-p circuit at 50 °C rated val	Confirmation Confi	es ertific- Ty at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC
Certificates/ approvals General Product Approved Certificates/ approvals General Product Approved Certificates/ ap	roval ccc mity UK Confirmation erformance [hp] for 3-p	Confirmation Confi	es ertific- Ty at	finger-safe, for	<b>ERIC</b> Marine / Shipping	EMC

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https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW4047-1BB15

Cax online generator

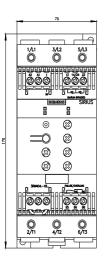
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB15

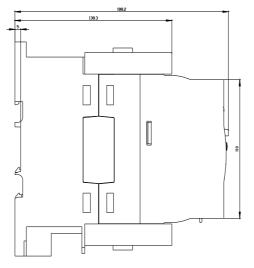
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

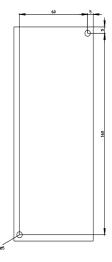
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB15

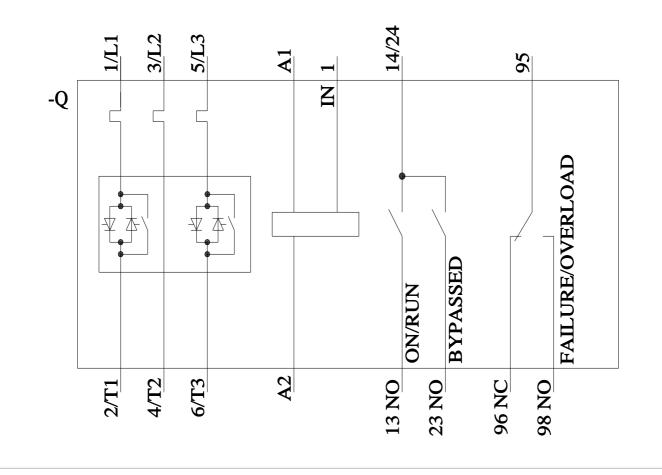
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4047-1BB15&lang=en









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