# SIEMENS



#### Data sheet

## 3RW4047-2BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 24 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
<ul> <li>inside-delta circuit</li> </ul>		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
<ul> <li>at 50 °C rated value</li> </ul>	А	98
• at 60 °C rated value	А	90
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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

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	_	
adjustable motor current for motor overload protection minimum rated value	А	4
continuous operating current [% of le] at 40 °C	%	1
power loss [W] at operational current at 40 °C during operation typical	W	2
Control circuit/ Control		
type of voltage of the control supply voltage		A
control supply voltage frequency 1 rated value		
control supply voltage frequency 2 rated value	Hz	6

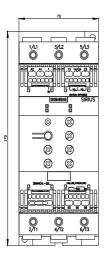


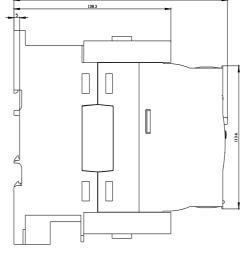
operation typical		
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	V	24
• at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
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° 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	m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>		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>
Intervisitanded with core end processing     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)

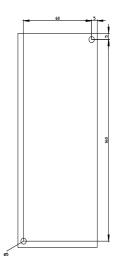
<ul> <li>finely stranded</li> <li>stranded</li> </ul>	l with core end processin	9		2.5 2 10 nm²	dion	tudona
type of connectable	e conductor cross-section cross-section cross-section construction cross-section construction cross-section cross-secti				Juien	tudong
• solid				2x (2.5 16 m	nm²)	
<ul> <li>finely stranded</li> </ul>	I with core end processing	g		2x (2.5 35 m		
<ul> <li>stranded</li> </ul>		5		2x (10 50 m		
	e conductor cross-section ntacts for box terminal	ons at AWG				
<ul> <li>using the back</li> </ul>	clamping point			2x (10 1/0)		
<ul> <li>using the front</li> </ul>				2x (10 1/0)		
<ul> <li>using both clar</li> </ul>				10 2/0		
type of connectable cable lug for main o	e conductor cross-section	ons for DIN				
<ul> <li>finely stranded</li> </ul>				2 x (10 50 m	2m²)	
stranded	1			2 x (10 30 m 2x (10 70 m	,	
	e conductor cross-secti	ons for		28 (10 70 11	···· )	
auxiliary contacts						
solid				2x (0.25 2.5	mm²)	
<ul> <li>finely stranded</li> </ul>	I with core end processing	g		2x (0.25 1.5	mm²)	
type of connectable	e conductor cross-secti	-			,	
• for main contac	oto			2x(7, 1/0)		
<ul> <li>for auxiliary co</li> </ul>				2x (7 1/0)		
Ambient conditions	iniacis			2x (24 14)	_	
	at haight about and law			E 000	_	
environmental cate	at height above sea lev		m	5 000		
	rt according to IEC 60721	1		262 201 251	, 2M2 (max. fall heigh	t 0 3 m)
	according to IEC 60721	I			asional condensation),	
• during storage					st not get inside the de	
<ul> <li>during operation</li> </ul>	on according to IEC 6072	1		3K6 (no forma	tion of ice, no condens nd must not get into th	sation), 3C3 (no salt
ambient temperatu	re					
<ul> <li>during operation</li> </ul>			°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-40 +80		
derating temperatu			°C	40		
protection class IP 60529	on the front according	to IEC		IP20		
touch protection or	the front according to	IEC 60529		finger-safe, for	vertical contact from t	the front
Certificates/ approva	ls			-		
General Product A						EMC
	PP					
SP SA		<u>Confirmation</u>	<u>on</u>	(UL)	EHC	
Declaration of Conformity	Test Certificates		I	Marine / Shipping		
CE	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Ce</u> ates/Test Re		Lloyds	6	
EG-Konf.				LRS	PRS	DNV-GL
other	Railway					
Confirmation	Vibration and Shock	<u>Confirmation</u>	<u>on</u>			

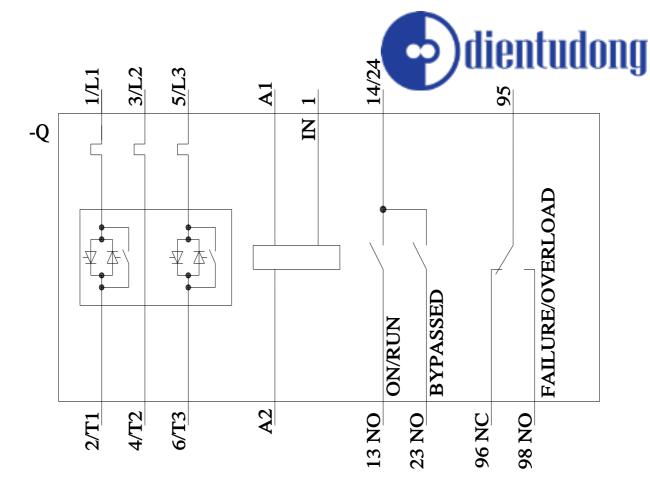


UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• at 220/230 V			
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	30	
• at 460/480 V			
— at standard circuit at 50 °C rated value	hp	75	
contact rating of auxiliary contacts according to UL		B300 / R300	
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=3RW4047-2BB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB04 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-2BB04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-2BB04⟨=en			









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