## SIEMENS

## Data sheet

## 3RW4047-1TB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

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>		Yes
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		
<ul> <li>at 40 °C rated value</li> </ul>	A	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		
<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
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	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 frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
• at 50 Hz rated value	V	24
• at 60 Hz rated value	V	24
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 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		
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		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)
		2.5 50 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>		
tinely stranded with core end processing     stranded		10 70 mm²
		10 70 mm²
stranded type of connectable conductor cross-sections for main		10 70 mm² 2x (2.5 16 mm²)

<ul> <li>stranded</li> </ul>				2x (10 50 m	m²)		
	onductor cross-sections	s for AWG			,		
cables for main conta							
<ul> <li>using the back c</li> </ul>	lamping point			2x (10 1/0)			
<ul> <li>using the front clamping point</li> </ul>				2x (10 1/0)	2x (10 1/0)		
<ul> <li>using both clamping points</li> </ul>				10 2/0	10 2/0		
type of connectable c lug for main contacts	onductor cross-sections	s for DIN cable					
<ul> <li>finely stranded</li> </ul>	• finely stranded			2 x (10 50 m	nm²)		
<ul> <li>stranded</li> </ul>				2x (10 70 m	2x (10 70 mm²)		
type of connectable c contacts	onductor cross-sections	s for auxiliary					
<ul> <li>solid</li> </ul>	• solid			2x (0.5 2.5 r	2x (0.5 2.5 mm²)		
<ul> <li>finely stranded w</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>			2x (0.5 1.5 r	2x (0.5 1.5 mm²)		
type of connectable c cables	onductor cross-sections	s for AWG					
<ul> <li>for main contacts</li> </ul>	S			2x (7 1/0)			
<ul> <li>for auxiliary cont</li> </ul>	acts			2x (20 14)	2x (20 14)		
<ul> <li>for auxiliary cont processing</li> </ul>	acts finely stranded with c	ore end		2x (20 16)			
Ambient conditions							
installation altitude at	t height above sea level		m	5 000			
environmental catego	ory						
<ul> <li>during transport</li> </ul>	according to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall height 0.3	m)	
<ul> <li>during storage a</li> </ul>	ccording to IEC 60721			1K6 (only occa	sional condensation), 1C2	(no salt mist), 1S2	
<ul> <li>during operation</li> </ul>	during operation according to IEC 60721			3K6 (no formation	(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt m		
ambient tomporature				352 (sand mus	st not get into the devices),	51010	
during operation	ambient temperature		°C	-25 +60			
during operation     during storage			°C	-40 +80			
derating temperature			°C	40			
protection class IP on the front according to IEC 60529			0	IP20			
touch protection on the front according to IEC 60529					finger-safe, for vertical contact from the front		
UL/CSA ratings							
	erformance [hp] for 3-ph	ase AC motor					
• at 220/230 V							
— at standard	— at standard circuit at 50 °C rated value		hp	30			
• at 460/480 V							
— at standard circuit at 50 °C rated value			hp	75			
contact rating of auxi	liary contacts according	to UL		B300 / R300			
Approvals Certificates							
General Product App	roval					EMV	
						_	
(Th	<u>Confirmation</u>	(m)		Ē	гпг	Â	
<b>W</b>		<u>u</u>		<b>W</b>	EHE	<u>w</u>	
CSA		ccc		UL		RCM	
EMV	For use in hazard- ous locations	Test Certificate	s		Marine / Shipping		
<u>KC</u>	Ex	<u>Special Test Cer</u> <u>ate</u>	<u>tific-</u>	Type Test Certific- ates/Test Report	ĴÅ	Lloyds	
	ATEX				DNV	LRS	
Marine / Shipping	other	Railway			Environment		
A CONTRACTOR	<b>Confirmation</b>	Special Test Cer	<u>tific-</u>	<b>Confirmation</b>	Environmental Con-		
		ate			firmations		
PRS							
rna -							

## Further information

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=3RW4047-1TB04

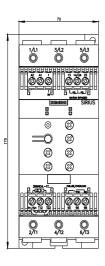
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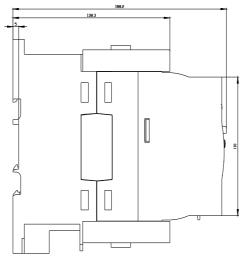
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1TB04

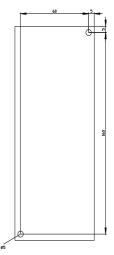
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

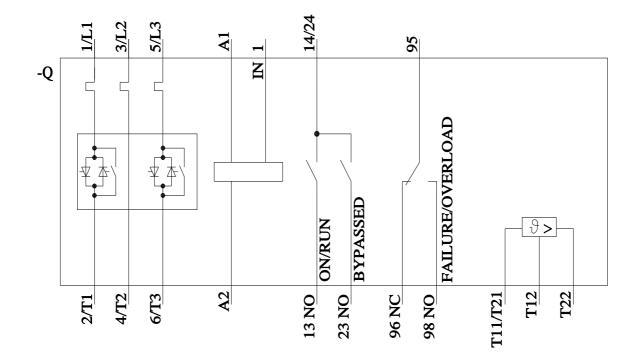
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4047-1TB04&lang=en









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