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		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
intrinsic device protection		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current limitation 		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 	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		
 — 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

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)
 finely stranded with core end processing 		2.5 35 mm ²
• 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 ²
 finely stranded with core end processing 		
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)

 stranded 				2x (10 50 m	m²)		
	onductor cross-sections	s for AWG			,		
cables for main conta							
 using the back c 	lamping point			2x (10 1/0)			
 using the front clamping point 				2x (10 1/0)	2x (10 1/0)		
 using both clamping points 				10 2/0	10 2/0		
type of connectable c lug for main contacts	onductor cross-sections	s for DIN cable					
 finely stranded 	• finely stranded			2 x (10 50 m	nm²)		
 stranded 				2x (10 70 m	2x (10 70 mm²)		
type of connectable c contacts	onductor cross-sections	s for auxiliary					
 solid 	• solid			2x (0.5 2.5 r	2x (0.5 2.5 mm²)		
 finely stranded w 	 finely stranded with core end processing 			2x (0.5 1.5 r	2x (0.5 1.5 mm²)		
type of connectable c cables	onductor cross-sections	s for AWG					
 for main contacts 	S			2x (7 1/0)			
 for auxiliary cont 	acts			2x (20 14)	2x (20 14)		
 for auxiliary cont processing 	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						
 during transport 	according to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall height 0.3	m)	
 during storage a 	ccording to IEC 60721			1K6 (only occa	sional condensation), 1C2	(no salt mist), 1S2	
 during operation 	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	
W		<u>u</u>		W	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	Confirmation	Special Test Cer	<u>tific-</u>	Confirmation	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

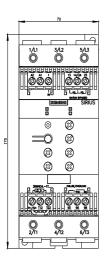
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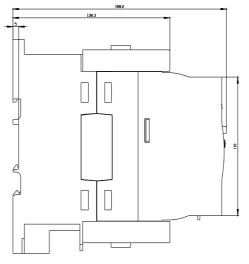
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1TB04

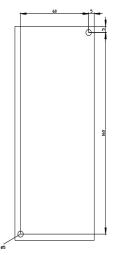
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

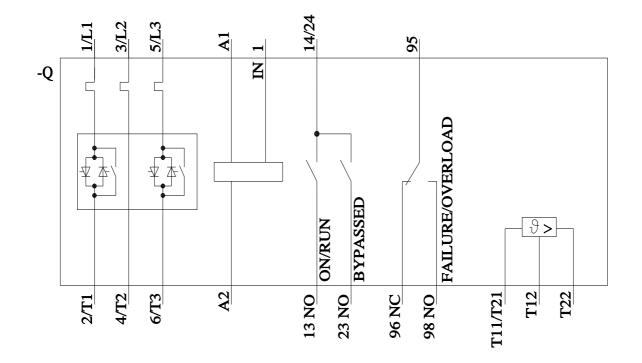
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1TB04

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









last modified:

3/11/2024 🖸