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	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

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 mm	m ²)	
• stranded type of connectable con	nductor cross-sections	for AWG		24 (10 50 mi		
cables for main contact						
 using the back clair 	imping point			2x (10 1/0)		
 using the front clar 	mping point			2x (10 1/0)		
 using both clampir 	ng points			10 2/0		
type of connectable con lug for main contacts	nductor cross-sections	for DIN cable				
 finely stranded 				2 x (10 50 m	m²)	
 stranded 				2x (10 70 mn	m²)	
type of connectable con contacts	nductor cross-sections	for auxiliary				
• solid				2x (0.5 2.5 mm²)		
 finely stranded with 	th core end processing			2x (0.5 1.5 m	nm²)	
type of connectable con cables	nductor cross-sections	for AWG				
 for main contacts 				2x (7 1/0)		
 for auxiliary contact 	cts			2x (20 14)		
processing	cts finely stranded with co	ore end		2x (20 16)		
mbient conditions						
installation altitude at h	neight above sea level		m	5 000		
environmental category	-					
• ·	ccording to IEC 60721				2M2 (max. fall height 0	
 during storage acc 	cording to IEC 60721				sional condensation), 1	
 during operation a 	according to IEC 60721			3K6 (no formati	get inside the devices), ion of ice, no condensa t not get into the device	tion), 3C3 (no salt mist),
ambient temperature				502 (Sand mus	thot get into the device	3), 5100
during operation			°C	-25 +60		
during storage			°C	-40 +80		
derating temperature			°C	40		
protection class IP on t	the front according to IE	EC 60529	-	IP20		
touch protection on the					vertical contact from the	e front
ertificates/ approvals	J. J			<u> </u>		
General Product Appro	oval					EMC
	Confirmation			\sim		
() () () () () () () () () () () () () ((ŲL)	EHC	
Test Certificates	Communation		na	(ŲL)	EHC	RCM other
Test Certificates		CCC	ng	Ű	EHC	
Test Certificates Special Test Certific- ate	Type Test Certific- ates/Test Report		ng	UL UL	ERC	
Special Test Certific-	Type Test Certific-	Marine / Shippin	ng	UL UL PRS	EAC	other
Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Marine / Shippin	ng	UL VI	EAC	other
<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific-	Marine / Shippin	ng	UL PRS	EAC	other
Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Marine / Shippin	ng	UL PRS	EAC	other
Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Marine / Shippin	ng	UL PRS	EAC	other

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
— 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 auxiliary	contacts according to UL
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B300 / R300

urther information

Siemens has decided to exit the Russian market (see here).

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=3RW4047-1TB04

Cax online generator

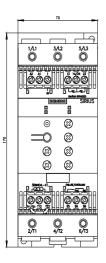
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1TB04

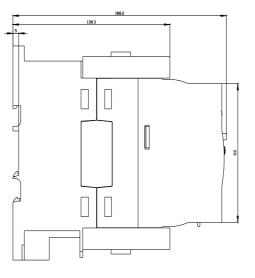
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

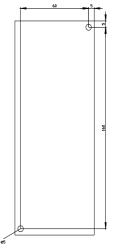
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1TB04

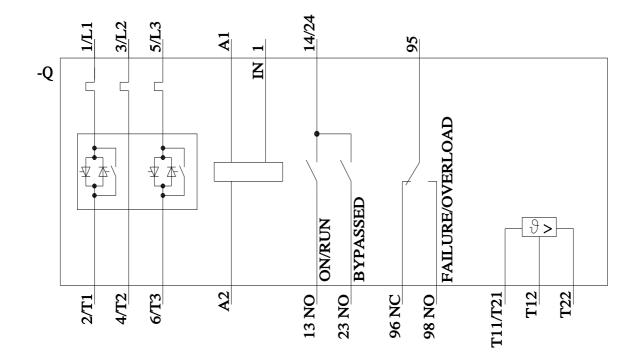
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1TB04&lang=en









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