SIEMENS

Data sheet

3RW4047-1BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
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
blocking voltage of the thyristor maximum	V	1 600
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		
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	A	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		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 mm ²				
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point						
• solid		2x (2.5 16 mm²)				
 finely stranded with core end processing 		2.5 50 mm ²				
stranded stranded		10 70 mm ²				
type of connectable conductor cross-sections for main						

Marine / Shipping otl	her	Railw	av		Environment	
RGM	ATEX				DNV	
	(£x)		<u>e Test Certific-</u> s/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
ENIV	r use in hazard- s locations	Test	Certificates		Marine / Shipping	
General Product Approval	CE EG-Konf.	C	<u>onfirmation</u>	U L	EAC	
Approvals Certificates						
contact rating of auxiliary contacts according to U	L		B300 / R300			
 at 460/480 V — at standard circuit at 50 °C rated value 		hp	75			
 yielded mechanical performance [hp] for 3-phase A at 220/230 V at standard circuit at 50 °C rated value 	AC motor	hp	30			
JL/CSA ratings						
protection class IP on the front according to IEC 60 touch protection on the front according to IEC 605			IP20 finger-safe, for vertical contact from the front			
derating temperature	0520	.0	°C 40			
during storage		°C	-40 +80			
during operation		°C	-25 +60			
during operation according to IEC 60721 ambient temperature			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
during storage according to IEC 60721			1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
during transport according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	3 m)	
environmental category						
installation altitude at height above sea level		m	5 000			
processing Ambient conditions	_					
 for auxiliary contacts finely stranded with core e 	nd		2x (20 16)			
for auxiliary contacts			2x (20 14)			
type of connectable conductor cross-sections for a cables • for main contacts	AWG		2x (7 1/0)			
 finely stranded with core end processing 			2x (0.5 1.5 m	ım²)		
type of connectable conductor cross-sections for a contacts solid 	auxilidiy		2x (0.5 2.5 m	ım²)		
• stranded	ouvilian		2x (10 70 mm²)			
type of connectable conductor cross-sections for l lug for main contacts • finely stranded			2 x (10 50 m	m²)		
using both clamping points	DIN salata		10 2/0			
 using the front clamping point 			2x (10 1/0)			
 cables for main contacts for box terminal using the back clamping point 			2x (10 1/0)			
type of connectable conductor cross-sections for	AWG			,		
• stranded			2x (2.5 35 mm ²) 2x (10 50 mm ²)			
 finely stranded with core end processing 						





Confirmation

Special Test Certificate **Confirmation**

EPD

Environment

Environmental Confirmations

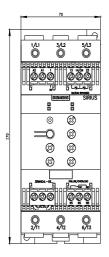
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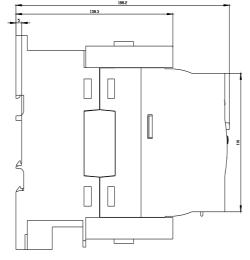
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4047-1BB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB04

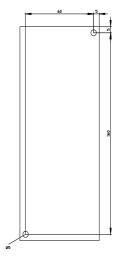
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

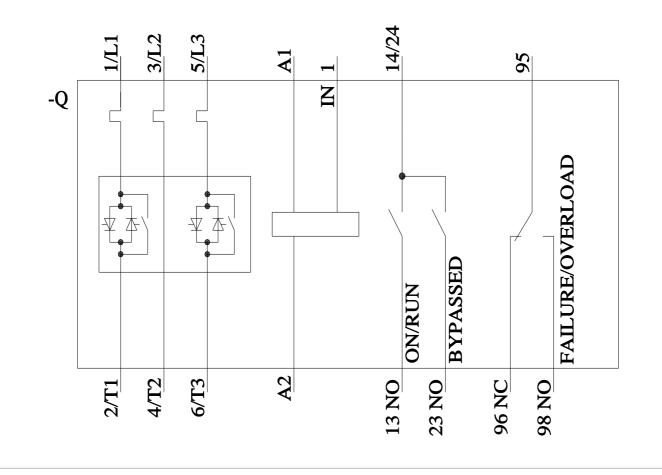
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1BB04&lang=en</u>









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