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° totatable, 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					

• solid			$2 \times (2.5 - 16 \text{ m})$	m ²)		
 finely stranded with core end processing 		2x (2.5 16 mm²) 2x (2.5 35 mm²)				
stranded			2x (10 50 m			
type of connectable conductor cross-sections cables for main contacts for box terminal	s for AWG		2X (10 30 m	,		
			2x(10, 1/0)			
using the back clamping point				2x (10 1/0)		
using the front clamping point				2x (10 1/0)		
using both clamping points	(DNL 11		10 2/0			
type of connectable conductor cross-sections lug for main contacts	s for DIN cable					
• finely stranded			2 x (10 50 mm ²)			
stranded type of connectable conductor cross-sections	s for auxiliary		2x (10 70 mi	m²)		
contacts						
• solid				2x (0.5 2.5 mm²)		
 finely stranded with core end processing 			2x (0.5 1.5 n	nm²)		
type of connectable conductor cross-sections cables	s for AWG					
 for main contacts 			2x (7 1/0)	2x (7 1/0)		
 for auxiliary contacts 			2x (20 14)	2x (20 14)		
 for auxiliary contacts finely stranded with c processing 	core end		2x (20 16)	2x (20 16)		
Ambient conditions						
installation altitude at height above sea level		m	5 000			
environmental category						
 during transport according to IEC 60721 			2K2, 2C1, 2S1	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage according to IEC 60721 			1K6 (only occa	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2		
			(sand must not	get inside the devices),	1M4	
during operation according to IEC 60721				3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature						
 during operation 		°C	-25 +60			
during storage		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front according to I	EC 60529		IP20			
touch protection on the front according to IEC	C 60529	finger-safe, for vertical contact from the front			front	
UL/CSA ratings						
yielded mechanical performance [hp] for 3-ph	ase AC motor					
• at 220/230 V						
— at standard circuit at 50 °C rated valu	le	hp	30			
• at 460/480 V						
— at standard circuit at 50 °C rated valu		hp	75			
contact rating of auxiliary contacts according		пр	B300 / R300			
<u> </u>		_	B3007 K300			
Approvals Certificates		_				
General Product Approval						
			Confirmation	•		
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Confirmation

Special Test Certificate **Confirmation**

EPD

Environment

Environmental Confirmations

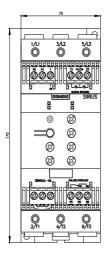
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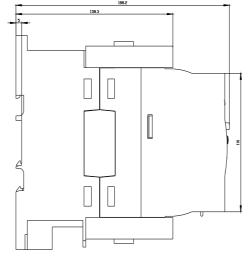
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering 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

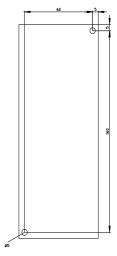
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

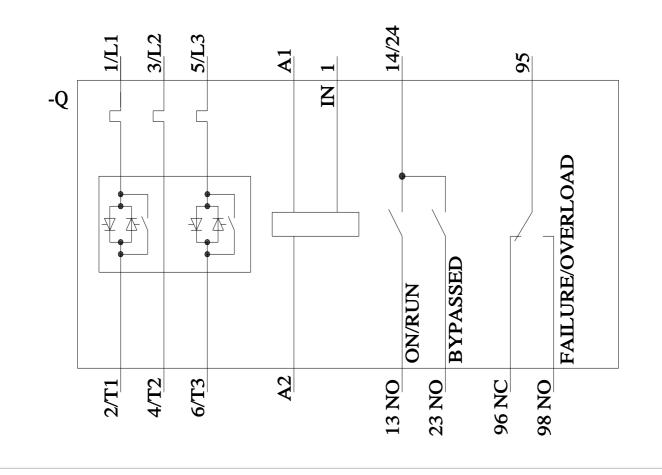
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB04

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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