SIEMENS

Data sheet

3RW4047-1BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

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		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	v	3, acc. to IEC 60947-4-2		
reference code according to EN 61346-2		Q		
reference code according to DIN 40719 extended according		G		
to IEC 204-2 according to IEC 750		5		
Power Electronics				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	A	106		
• at 50 °C rated value	A	98		
• at 60 °C rated value	A	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		

	0/	
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
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		<u></u>
• 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 mm²
• 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)
 finely stranded with core end processing 		2.5 50 mm ²
stranded		10 70 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
- 0010		
 finely stranded with core end processing 		
 finely stranded with core end processing stranded 		2x (2.5 35 mm ²) 2x (10 50 mm ²)

type of connectable c cables for main conta	onductor cross-sections	for AWG						
				2x(10, 1/0)				
 using the back cl using the front cl 				2x (10 1/0) 2x (10 1/0)				
 using the front classing both clamp 				10 2/0				
	onductor cross-sections	for DIN cable		10 2/0				
lug for main contacts								
 finely stranded 				2 x (10 50 m	m²)			
 stranded 				2x (10 70 mr	ກ²)			
type of connectable c contacts	onductor cross-sections	for auxiliary						
 solid 				2x (0.5 2.5 mm²)				
 finely stranded w 	vith core end processing			2x (0.5 1.5 mm²)				
type of connectable c cables	onductor cross-sections	for AWG						
 for main contacts 	6			2x (7 1/0)				
 for auxiliary containing 	acts			2x (20 14)	2x (20 14)			
 for auxiliary contain processing 	acts finely stranded with co	re end		2x (20 16)	2x (20 16)			
Ambient conditions								
installation altitude at	height above sea level		m	5 000				
environmental catego	ry							
 during transport a 	according to IEC 60721			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
 during storage ad 	ccording to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2			
 during operation 	according to IEC 60721			(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist),				
ambient temperature				352 (sand mus	st not get into the devices),	31/16		
 during operation 			°C	-25 +60	-25 +60			
 during storage 			°C	-40 +80				
derating temperature			°C	40				
protection class IP on the front according to IEC 60529				IP20				
touch protection on th		finger-safe, for vertical contact from the front						
UL/CSA ratings	-			-				
yielded mechanical pe	erformance [hp] for 3-pha	se AC motor						
• at 220/230 V								
	circuit at 50 °C rated value		hp	30				
• at 460/480 V								
	circuit at 50 °C rated value		hp	75				
-	liary contacts according to	0 UL	_	B300 / R300				
Approvals Certificates			_					
General Product App	roval							
(S)	UK	CE		<u>Confirmation</u>	(m)	መ		
U	CA	EG-Konf.						
General Product Ap-	EMV			use in hazard- locations	Test Certificates			
proval			Out	BIOCALIONS				
FAL	<i>R</i>	<u>KC</u>		(Ex)	Special Test Certific- ate	Type Test Certific- ates/Test Report		
LIIL	RCM			ATEX				
Marine / Shipping			oth	er	Railway			
Sundan a curbhing			011		, tan tag			
Å لگ	Lloyds	6		Confirmation	Special Test Certific- ate	Confirmation		
DNV	LRS	PRS						

Environment

Environmental Con**firmations**

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=3RW4047-1BB14

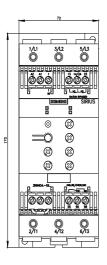
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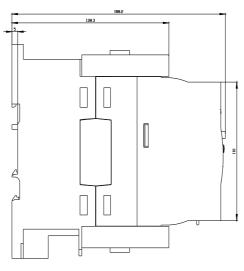
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB14

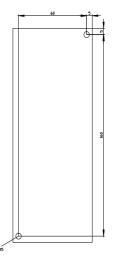
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

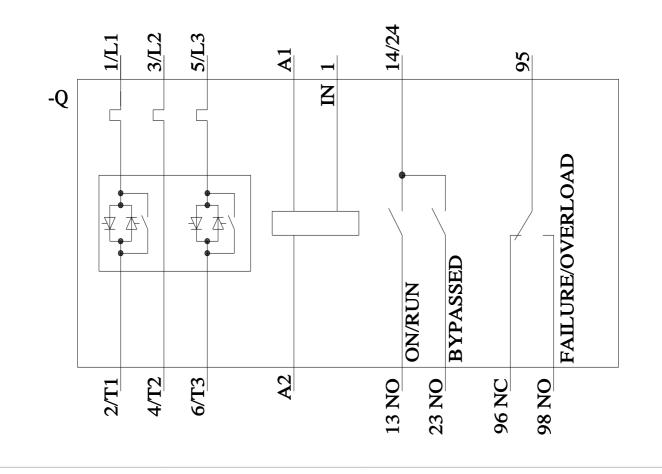
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1BB14&lang=en









last modified:

3/11/2024 🖸