SIEMENS

Data sheet

3RW3047-1BB14



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 designation		Soft starter		
product feature				
 integrated bypass contact system 		Yes		
thyristors		Yes		
product function				
 intrinsic device protection 		No		
 motor overload protection 		No		
 evaluation of thermistor motor protection 		No		
external reset		No		
 adjustable current limitation 		No		
• 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 [%]	%	10		

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	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 vertical mounting surface +/-10° rotatable, with vertical			
	_	mounting surface +/- 10° tiltable to the front and back			
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		1			
number of CO contacts for auxiliary contacts		0			
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)			
 finely stranded with core end processing 		2.5 50 mm ²			
• stranded		10 70 mm²			
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points					
• solid		2x (2.5 16 mm²)			
 finely stranded with core end processing 		2x (2.5 35 mm ²)			
• stranded		2x (10 50 mm ²)			
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal					

• using the front clamping point 0 20 • using both clamping points 2x (10 10) • Using both clamping points 2x (10 50 mm²) • Inely stranded 2x (10 50 mm²) • Inely stranded 2x (0 25 mm²) • Inely stranded with core and processing 2x (0 10) • Inely stranded with core and processing 2x (0 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Inely stranded with core and processing 2x (2 10) • Intel strand data 2x (2 10) • Intel strand data 2x (2 10) • Intel stranded condition is IEC 60721 100 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10	10 0/0			elemning point	- using the beak of
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					for DIN cable		
		50 mm²)	2 x (10 50 r				0
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UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 V							
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			50	пр	6		
B300 / R300 Approvals Certificates General Product Approval Confirmation Confirmation UK Open EMV Test Certificates other			75	hn	9	rd circuit at 50 °C rated valu	
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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=3RW3047-1BB14

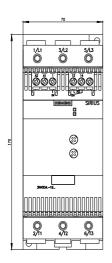
Cax online generator

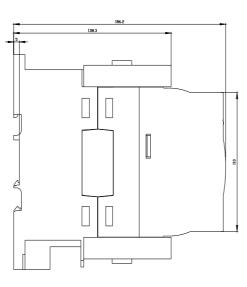
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB14

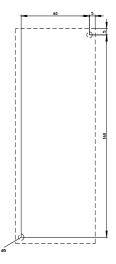
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

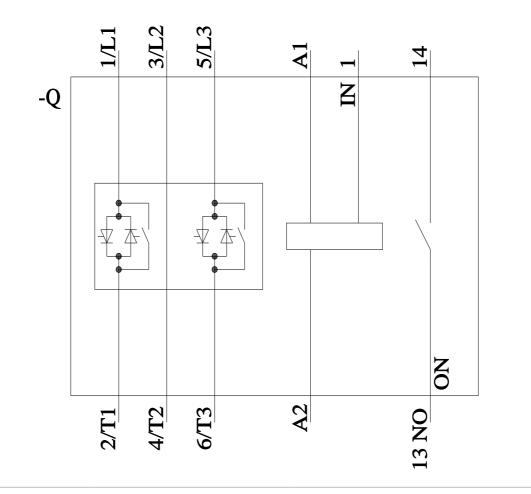
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB14&lang=en









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