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 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	Α	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

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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 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		
• 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 NO 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 mm²
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)

* Interly stranded with core end processing 2x (25 35 mm²) * Interly stranded with core end processing 2x (10 50 mm²) * Using the back clamping point 2x (10 10) * Using the back clamping point 2x (10 10) * Using both clamping point 2x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using the front clamping point 3x (10 10) * Using tranded with core end processing 3x (10 10 10) * Using tranded with core end processing 3x (10 10 10) * Using tranded with core end processing 3x (10 10 10) * Using translation and translation a			
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contact rating of auxiliary contacts according to UL Approvals Certificates B300 / R300		hn	75
Approvals Certificates		- 119	
			FMV













EMV For use in hazardous locations Test Certificates Marine / Shipping

<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping other Railway Environment





<u>Confirmation</u> <u>Special Test Certificate</u>

Confirmation



Environment



Environmental Confirmations

Further informatior

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

Cax online generator

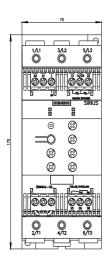
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB14

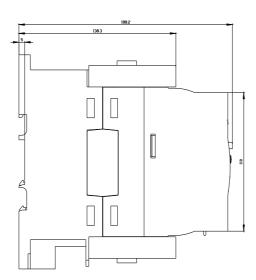
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

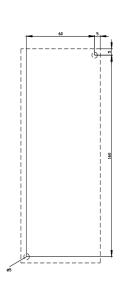
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB14

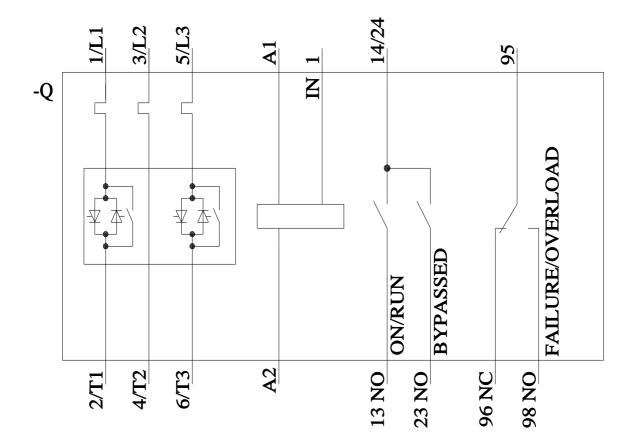
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-1BB14&lang=en









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