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 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		
reference code acc. to DIN EN 61346-2		Q		
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G		
Power Electronics				
product designation		Soft starter		
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	W	30 000		
• at 400 V				
— at standard circuit at 40 °C rated value	W	55 000		
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		

	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			
		AC/DC	
type of voltage of the control supply voltage	- Hz	50	
control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value	– Hz Hz		
relative negative tolerance of the control supply	- HZ %	60 -10	
voltage frequency	70		
relative positive tolerance of the control supply	% 10		
voltage frequency	_		
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	%	-15	
voltage at AC at 60 Hz			
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 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 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 at A cables for main contacts for box terminal	WG		
 using the back clamping point 		10 2/0	
 using the front clamping point 		10 2/0	
 using both clamping points 		2x (10 1/0)	
type of connectable conductor cross-sections for I cable lug for main contacts	DIN		
 finely stranded 		2 x (10 50 mm²)	
stranded		2x (10 70 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at A cables	WG		
 for main contacts 		2x (7 1/0)	
 for auxiliary contacts 		2x (20 14)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
• during operation acc. 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 acc. to IEC 60529		IP20	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front	
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity
	٩Ľ		S CE
Test Certificates other		Railway	
Type Test Certific- Special Test Certific- Conf	firmation M	Aiscellaneous Vibration and	Shook

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	30
• at 460/480 V		
- at standard circuit at 50 °C rated value	hp	75
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		
Simulation Tool for Soft Starters (STS)		

https://support.industry.siemens.com/cs/ww/en/view/101494917

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

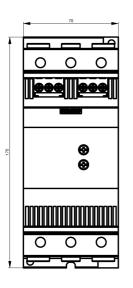
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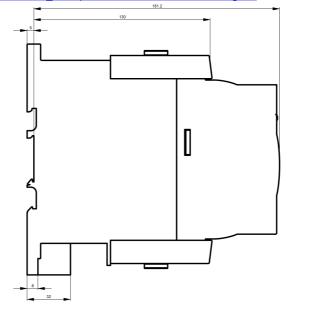
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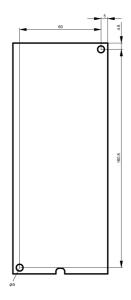
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

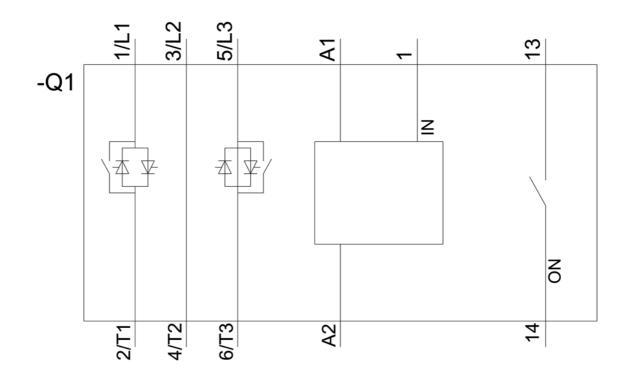
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14

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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