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		3, acc. to IEC 60947-4-2
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		
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	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	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 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 mm²		
	conductor cross-sect	tions for					
	ox terminal using both						
 solid 					2x (2.5 16 n	nm²)	
 finely stranded v 	with core end processir	ng			2x (2.5 35 n	nm²)	
 stranded 					2x (10 50 m	m²)	
	conductor cross-sect acts for box terminal						
 using the back of 	clamping point				2x (10 1/0)		
 using the front of 	clamping point				2x (10 1/0)		
 using both clam 	ping points				10 2/0		
type of connectable cable lug for main co	conductor cross-sectontacts	tions for DIN					
 finely stranded 					2 x (10 50 n	nm²)	
 stranded 					2x (10 70 m	m²)	
type of connectable auxiliary contacts	conductor cross-sect	tions for					
 solid 					2x (0.5 2.5 ı	nm²)	
 finely stranded v 	with core end processing	ng			2x (0.5 1.5 ı	nm²)	
type of connectable cables	conductor cross-sect	tions at AWG					
 for main contact 					2x (7 1/0)		
 for auxiliary con 	tacts				2x (20 14)		
 for auxiliary con processing 	tacts finely stranded w	ith core end			2x (20 16)		
Multions							
installation altitude a	at height above sea le	vel	m		5 000		
environmental categ	ory						
 during transport 	according to IEC 6072	21			2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
 during storage a 	according to IEC 60721					asional condensation), 1	
 during operation 	n according to IEC 607	21			3K6 (no forma	st not get inside the dev tion of ice, no condensa nd must not get into the	ation), 3C3 (no salt
ambient temperature	3					ia maet net get inte the	ao 11000), onto
 during operation 			°C		-25 +60		
 during storage 	-		°C		-40 +80		
derating temperature	9		°C		40		
	on the front according	to IEC			IP20		
touch protection on	the front according to	DIEC 60529			finger-safe, for	vertical contact from th	e front
Certificates/ approvals	S						
General Product Ap	proval						EMC
	Confirmation				\sim		^
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						СПС	తు
CSA		ccc			UL		RCM
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates			Marine / Shipping	
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ATEX	EG-Konf.					LRS	PRS
Marine / Shipping	other	Railway					
and a surphing							



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=3RW4047-1BB14

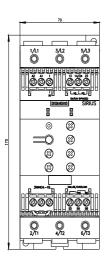
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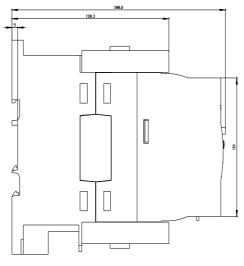
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB14

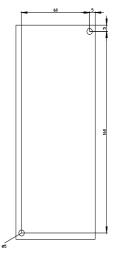
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

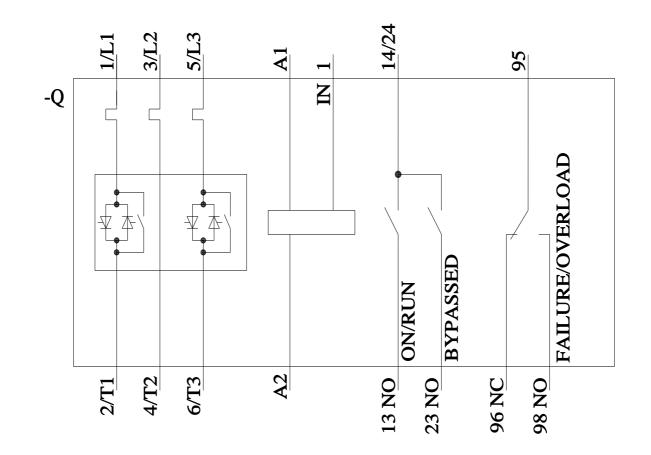
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB14

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









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