SIEMENS

Data sheet

3RW4047-1BB14



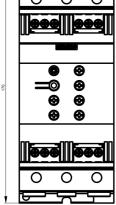
SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

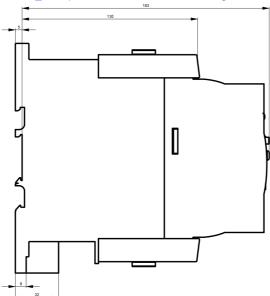
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
external reset		Yes
 adjustable current 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 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 [%]	%	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		
	e conductor cross-sectio box terminal using both c					
 solid 				2x (2.5 16 n	וm²)	
	d with core end processing			2x (2.5 35 n		
 stranded 				2x (10 50 m		
	e conductor cross-sectio ntacts for box terminal	ns at AWG				
 using the back 	c clamping point			2x (10 1/0)		
 using the front 				2x (10 1/0)		
using both clai				10 2/0		
cable lug for main		ns for DIN				
 finely stranded 				2 x (10 50 n	,	
stranded	a conductor cross costia	na far		2x (10 70 m	m²)	
auxiliary contacts	e conductor cross-sectio	ns for				
 solid 				2x (0.5 2.5 r	nm²)	
 finely stranded 	d with core end processing			2x (0.5 1.5 r	nm²)	
type of connectable	e conductor cross-sectio	ns at AWG				
cables	-4-			0		
 for main conta for auxiliance 				2x (7 1/0)		
 for auxiliary co for auxiliary co 	ontacts finely stranded with	core end		2x (20 14) 2x (20 16)		
processing	madia micry stranucu with			27 (20 10)		
Ambient conditions						
installation altitude	e at height above sea leve	I	m	5 000		
environmental cate	egory					
 during transpo 	ort acc. to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)
 during storage 	e acc. to IEC 60721				sional condensation),	
 during operation 	on acc. to IEC 60721			3K6 (no forma	st not get inside the de tion of ice, no condens nd must not get into th	sation), 3C3 (no salt
ambient temperatu	re				-	
 during operation 	on		°C	-25 +60		
 during storage 	9		°C	-40 +80		
derating temperatu			°C	40		
· ·	on the front acc. to IEC 6			IP20		lle e fore of
	n the front acc. to IEC 608	529		tinger-sate, tor	vertical contact from t	the front
Certificates/ approva	als		_			
General Product A	pproval				EMC	For use in hazard- ous locations
(SB		መ		. D r	Ŕ	(Ex)
		<u> </u>		LIIL		ATEX
Declaration of Conformity	Test Certificates		Mari	ne / Shipping		
((<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	-	Lloyds	(3)	and a second second
	<u></u>			register		DNV-GL
EG-Konf.				LRS	PRS	Devol.com/
other	Railway					
Confirmation	Vibration and Shock	Confirmation				

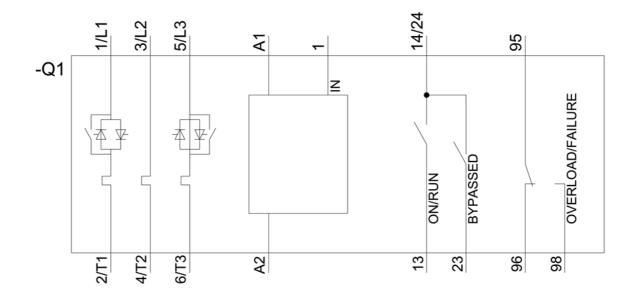
UL/CSA ratings						
yielded mechanical performance [hp] for 3-phase AC motor						
• at 220/230 V						
 — at standard circuit at 50 °C rated value 	hp	30				
• at 460/480 V						
- at standard circuit at 50 °C rated value	hp	75				
contact rating of auxiliary contacts according to UL		B300 / R300				
Further information						
Simulation Tool for Soft Starters (STS)						
https://support.industry.siemens.com/cs/ww/en/view/1014949						
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⟨=en						
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