SIEMENS

Data sheet

3RW3047-1BB14



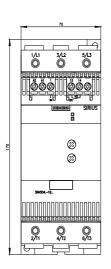
SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

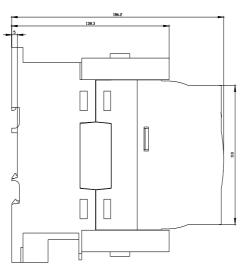
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
 intrinsic device protection 		No
 motor overload protection 		No
 evaluation of thermistor motor protection 		No
external reset		No
 adjustable current limitation 		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 according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750		
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	A	106
 at 50 °C rated value 	A	98
 at 60 °C rated value 	A	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

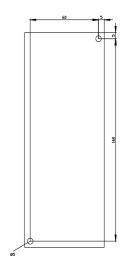
operation typical		
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply	%	-10
voltage frequency relative positive tolerance 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 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		$2x (2 E - 40 mm^2)$
 solid finally stranded with core and processing 		2x (2.5 16 mm ²)
finely stranded with core end processingstranded		2.5 35 mm² 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 stranded 		2.5 50 mm² 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 10 mm ²)
stranded stranded		2x (2.3 33 mm ²)
type of connectable conductor cross-sections at AWG		

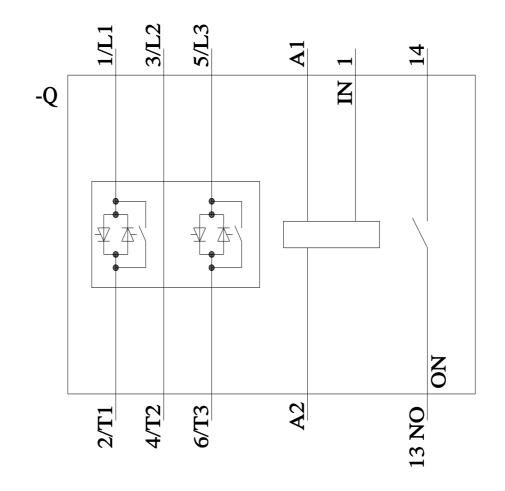
cables for main conta • using the back of • using the front of • using both clamp type of connectable of cable lug for main co • finely stranded type of connectable of auxiliary contacts • solid • finely stranded with type of connectable of cables • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	lamping point lamping point bing points conductor cross-section ntacts conductor cross-section with core end processin conductor cross-section s	ons for		10 2/0 10 2/0 2x (10 1 2 x (10 5 2x (10 7 2x (0.5 2 2x (0.5 1 2x (7 1/0 2x (20 1)	50 mm²) 0 mm²) 2.5 mm²) 1.5 mm²)						
installation altitude a	t height above sea lev	/el	m	5 000							
• during storage a	according to IEC 6072 ccording to IEC 60721 according to IEC 60721			1K6 (only o 1S2 (sand 3K6 (no for	2S1, 2M2 (max. fall heig occasional condensation must not get inside the o mation of ice, no conden), 1C2 (no salt mist), devices), 1M4 nsation), 3C3 (no salt					
ambient temperature				mist), 352	(sand must not get into t	ne devices), 3106					
ambient temperature • during operation • during storage derating temperature protection class IP or 60529	n the front according		0° 0° 0°	-25 +60 -40 +80 40 IP20							
touch protection on t	he front according to	IEC 60529		finger-safe	, for vertical contact from	n the front					
Certificates/ approvals			_								
General Product App	proval					EMC					
SF ESA	<u>Confirmation</u>	CCC CCC)	UL ut	EAC	RCM					
Declaration of Conformity	Test Certificates			other		Railway					
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test C</u> ate	ertific-	<u>Confirmation</u>	<u>Miscellaneous</u>	Vibration and Shock					
UL/CSA ratings											
yielded mechanical p motor	erformance [hp] for 3	-phase AC									
 at 220/230 V at standard 	circuit at 50 °C rated v	alue	hp	30							
• at 460/480 V			ΠP	00							
— at standard	circuit at 50 °C rated v	alue	hp	75							
-	contact rating of auxiliary contacts according to UL			B300 / R30	00						
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 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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