SIEMENS

Data sheet

3RW4047-2BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type 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	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

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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 rated value	V	24		
• at 60 Hz rated value	V	24		
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 rated value	V	24		
relative negative tolerance of the control supply voltage at DC	%	-20		
relative positive tolerance of the control supply voltage at DC	%	20		
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		spring-loaded 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 mm ²		
• stranded		4 70 mm ²		
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 stranded		10 70 mm ²		
type of connectable conductor cross-sections for main				
contacts for box terminal using both clamping points				

Marine / Shipping		other		Railwa	ау		Environment
RCM	<u>KC</u>	K ATEX		<u>Specia</u>	a <u>l Test Certific-</u> ate	Type Test Certific- ates/Test Report	
EMV		For use in haza ous locations	ard-	Test C	Sertificates		Marine / Shipping
UK CA	CE EG-Konf.			<u>Cc</u>	onfirmation	(U) u	EHC
Approvals Certificates General Product Approval							
contact rating of auxiliary contacts according to UL					B300 / R300		
— at standard circuit at 50 °C rated value		hp					
 — at standard circuit a at 460/480 V 	 — at standard circuit at 50 °C rated value • at 460/480 V 		hp)	30		
yielded mechanical performa • at 220/230 V							
L/CSA ratings							
protection class IP on the fro touch protection on the front	-				IP20 finger-safe, for vertical contact from the front		
lerating temperature		°C	;	40			
during storage			°C °C	-	-40 +80		
during operation		°C		-25 +60			
ambient temperature						not get into the devices)), 3M6
during storage according during operation according					(sand must not g 3K6 (no formatio	and must not get inside the devices), 1M4 (6 (no formation of ice, no condensation), 3C3 (no salt mis	
 during transport accordin during storage according 	-				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2		
environmental category	a to IEC 60721				2K2 2C1 2S1	2M2 (may fall boight 0.3	3 m)
installation altitude at height	above sea level		m	1	5 000		
mbient conditions							
 for auxiliary contacts 					2x (24 14)		
• for main contacts					2x (7 1/0)		
type of connectable conducto cables	or cross-sections	s tor AWG					
finely stranded with core		6 A14/0			2x (0.25 1.5 mm²)		
• solid					2x (0.25 2.5 mm²)		
type of connectable conducto contacts	or cross-sections	o tor auxiliary					
stranded					2x (10 70 mm²)		
finely stranded	for main contacts ● finely stranded				2 x (10 50 mm²)		
type of connectable conducto	or cross-sections	for DIN cable					
 using the front clamping point using both clamping points 					10 2/0		
 using the back clamping using the front clamping 	-				2x (10 1/0) 2x (10 1/0)		
cables for main contacts for I					2x(10, 10)		
type of connectable conducto	or cross-sections	o for AWG				7	
 finely stranded with core stranded 	end processing				2x (2.5 35 mn 2x (10 50 mm	,	
					2x (2.5 16 mn		





Confirmation

Special Test Certificate **Confirmation**



Environment

Environmental Confirmations

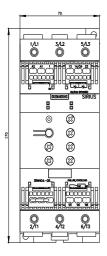
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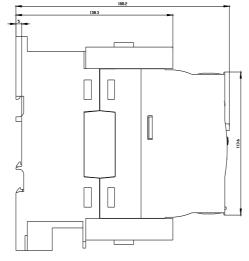
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4047-2BB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB04

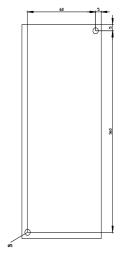
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

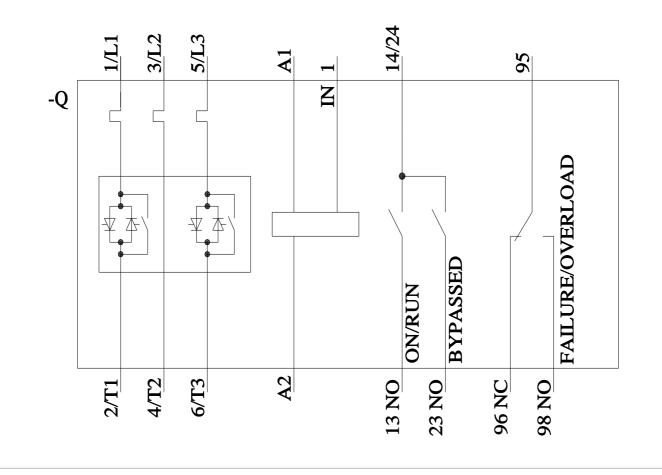
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-2BB04&lang=en









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