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 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 	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 [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	46

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 21

operation typical	VV	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	%	-10
voltage frequency		
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 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 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 processingstranded		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 m	m²)	
 finely stranded 	with core end processing	9		2x (2.5 35 m	m²)	
 stranded 				2x (10 50 mr	n²)	
	e conductor cross-secti ntacts for box terminal	ons at AWG				
 using the back 				2x (10 1/0)		
 using the front 				2x (10 1/0)		
 using both clar 				10 2/0		
-	conductor cross-secti	ons for DIN				
cable lug for main c						
 finely stranded 				2 x (10 50 m	m²)	
 stranded 				2x (10 70 mr	n²)	
	e conductor cross-secti	ons for				
auxiliary contacts					2)	
• solid				2x (0.25 2.5		
•	with core end processing	-		2x (0.25 1.5	mm²)	
cables	e conductor cross-secti	ons at AWG				
 for main contact 	cts			2x (7 1/0)		
 for auxiliary col 				2x (24 14)		
Ambient conditions		_		× /		
	at height above sea lev		m	5 000		
environmental cate	•	vi		0.000		
	rt according to IEC 60721			2K2_2C1_2S1	2M2 (max. fall heigh	t 0 3 m)
• ·	according to IEC 60721				sional condensation),	· ·
e dannig eterlage					t not get inside the de	
 during operation 	on according to IEC 6072	1			ion of ice, no condens d must not get into th	
ambient temperatur	re			11131), 002 (3011	a mast not get into th	
 during operation 	n		°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatur	re		°C	40		
	on the front according	to IEC		IP20		
touch protection on	the front according to	IEC 60529		finger-safe, for	vertical contact from	he front
Certificates/ approva	ls			-		
General Product A						EMC
Ocheral Product A	ppioval					Lino
		Confirmation	1	\frown		^
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					LUL	ي
CSA	CCC			UL		RCM
Declaration of	Test Certificates		Mari	ne / Shipping		
Conformity	Test Certificates		Iviciti	ne / Shipping		
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EG-Konf.				LRS	PRS	DWULLEDRA
other	Railway					
Confirmation	Vibration and Shock	Confirmation	1			

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 on the packaging				

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

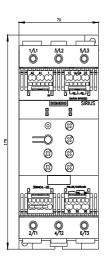
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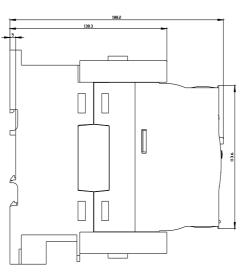
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB04

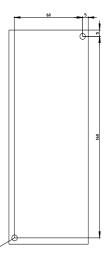
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

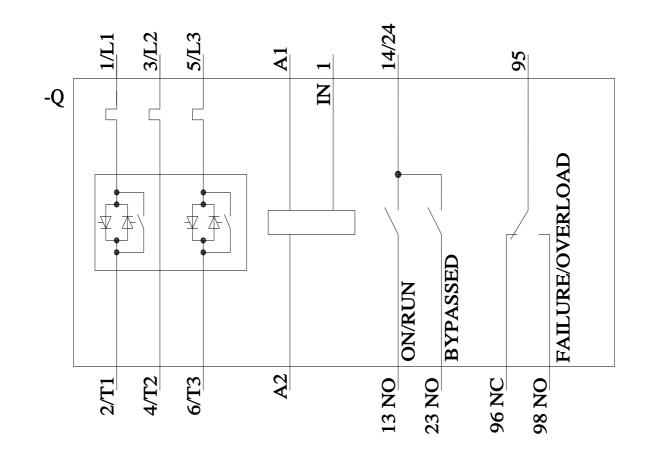
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-2BB04

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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