SIEMENS

Data sheet

3RW4037-2BB04



SIRIUS soft starter S2 63 A, 30 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	А	63
• at 50 °C rated value	А	58
• at 60 °C rated value	А	53
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	18.5
• at 400 V		
— at standard circuit at 40 °C rated value	kW	30
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	15
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	26

	_	
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	VV	12
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 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		S2
width	mm	55
height	mm	160
	-	170
depth	mm	
fastening method mounting position	_	screw and snap-on mounting 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 encoing with olds by olds mounting	-	
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 (1.5 16 mm²)
 finely stranded with core end processing 		0.75 25 mm ²
stranded stranded		0.75 35 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm ²
stranded with core end processing stranded		1.5 25 mm ²
type of connectable conductor cross-sections for main		1.0 30 mm
contacts for box terminal using both clamping points		
contacts for box terminal using both clamping points		$2x(15, 16 \text{ mm}^2)$
 contacts for box terminal using both clamping points solid finely stranded with core end processing 		2x (1.5 16 mm²) 2x (1.5 16 mm²)

• stranded						
				2x (1.5 25	mm²)	
cables for main conta	onductor cross-se					
 using the back cl 	lamping point			16 2		
 using the front clamping point 			18 2			
using both clamping points				2x (16 2)		
type of connectable contacts	onductor cross-se	ections for auxiliary				
 solid 				2x (0.25 2.	5 mm²)	
 finely stranded with core end processing 			2x (0.25 1.	(0.25 1.5 mm ²)		
type of connectable concepted by the context of the	onductor cross-se	ections for AWG				
 for auxiliary contacts 			2x (24 14)			
Ambient conditions						
installation altitude at	height above sea	level	m	5 000		
environmental catego	ory					
during transport according to IEC 60721			2K2, 2C1, 2S	31, 2M2 (max. fall height 0.3	m)	
 during storage ad 	ccording to IEC 607	721			casional condensation), 1C2 ot get inside the devices), 1N	
 during operation 	according to IEC 6	0721			ation of ice, no condensation ust not get into the devices),	
ambient temperature						
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature			°C	40		
protection class IP on	the front accordi	ng to IEC 60529		IP20		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		to IEC 60529		finger-safe, fo	or vertical contact from the fro	ont
touch protection on th	ie nom according					
touch protection on the Certificates/ approvals						
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Certificates/ approvals				<u>ل</u>	EAC	EMC ECM
Certificates/ approvals	roval	CCC Test Certificate	95	U.	ERIC Marine / Shipping	EMC ECM
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Certificates/ approvals General Product Approversion General Product Approversion General Product Approversion General Product Approversion Construction of Confor Conference EG-Konf. Marine / Shipping Marine / Shipping UL/CSA ratings UL/CSA ratings yielded mechanical pro- e at 220/230 V — at standard	roval rmity UK CA	Test Certificate Railway or 3-phase AC motor	es hp	20	EAC Marine / Shipping	
Certificates/ approvals General Product Approved Certificates/ approvals General Product Approved Certificates/ ap	roval rmity UK other erformance [hp] for d circuit at 50 °C rat	Test Certificate Railway r 3-phase AC motor ed value	hp		EAC Marine / Shipping	EMC CCM PRS
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