## **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

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
ower Electronics		
operational current		
at 40 °C rated value	Α	63
at 50 °C rated value	Α	58
• at 60 °C rated value	Α	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

	_	
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 operation typical	W	12
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	%	-10
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		\$2
width	mm	55
height	mm	160
depth	mm	170
fastening method		screw and snap-on mounting
mounting position		With additional fan: With vertical mounting surface +/-90°
mounting position		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		corous tuno terminale
		screw-type terminals
for auxiliary and control circuit		spring-loaded terminals
number of NC contacts for auxiliary contacts		spring-loaded terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		spring-loaded terminals 0 2
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		spring-loaded terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		spring-loaded terminals 0 2
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid		spring-loaded terminals 0 2 1 2x (1.5 16 mm²)
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid		spring-loaded terminals 0 2 1 2x (1.5 16 mm²)
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid • finely stranded with core end processing		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²

		Ov. (4 F 46 mm²)
• solid		2x (1.5 16 mm²)
finely stranded with core end processing		2x (1.5 16 mm²)
• stranded		2x (1.5 25 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		16 2
<ul> <li>using the front clamping point</li> </ul>		18 2
using both clamping points		2x (16 2)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
finely stranded with core end processing		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for auxiliary contacts		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
during operation	°C	-25 +60
during storage	°C	-40 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
Environmental footprint		
Global Warming Potential [CO2 eq] total	kg	181
Global Warming Potential [CO2 eq] during manufacturing	kg	26.9
global warming potential [CO2 eq] during sales	kg	0.324
Global Warming Potential [CO2 eq] during operation	kg	158
Global Warming Potential [CO2 eq] after end of life	kg	-4.56
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	20
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	40
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates	_	
General Product Approval		

Confirmation











EMV For use in hazardous locations **Test Certificates** 



<u>KC</u>





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Marine / Shipping Railway other







Confirmation

Special Test Certificate

Confirmation

## **Environment**



Environmental Con-firmations

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=3RW4037-2BB04

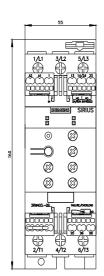
Cax online generator

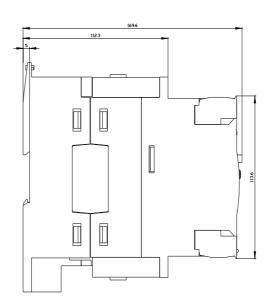
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4037-2BB04}$ 

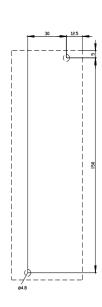
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

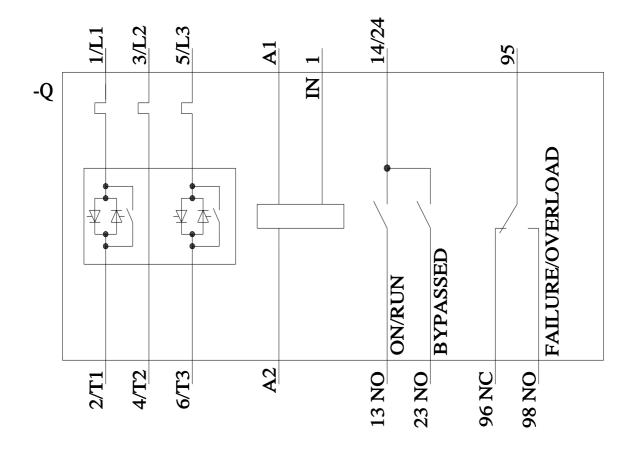
https://support.industry.siemens.com/cs/ww/en/ps/3RW4037-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)









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