## **SIEMENS**

Data sheet 3RW3038-2BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
<ul><li>thyristors</li></ul>		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
<ul> <li>external reset</li> </ul>		No
<ul> <li>adjustable current limitation</li> </ul>		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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	Α	72
<ul> <li>at 50 °C rated value</li> </ul>	Α	62
<ul> <li>at 60 °C rated value</li> </ul>	Α	60
yielded mechanical performance for 3-phase motors  ● at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	22 000
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	37 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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

		445
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	15
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 1 rated value	_ Hz	60
relative negative tolerance of the control supply	 %	-10
voltage frequency	/0	
relative positive tolerance of the control supply	%	10
voltage frequency		
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	%	-10
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	%	-10
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		-10 230
voltage at DC relative positive tolerance of the control supply		10
voltage at DC	-	
display version for fault signal		red
Mechanical data		
size of engine control device		S2
width	mm	55
height	mm	160
depth	mm	170
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     for qualificational control circuit		screw-type terminals
for auxiliary and control circuit  number of NC contacts for auxiliary contacts.		spring-loaded terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		1
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		0
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		2x (1.5 16 mm²) 1.5 25 mm²
Innery stranded with core end processing     stranded		1.5 25 mm <sup>2</sup>
type of connectable conductor cross-sections for		
main contacts for box terminal using the back		
clamping point		0(4.5
solid     finally stranded with core and processing.		2x (1.5 16 mm²)
<ul><li>finely stranded with core end processing</li><li>stranded</li></ul>		1.5 25 mm <sup>2</sup> 1.5 35 mm <sup>2</sup>
type of connectable conductor cross-sections for main contacts for box terminal using both clamping		
points		

• solid		2x (1.5 16 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1.5 16 mm²)	
stranded		2x (1.5 25 mm²)	
type of connectable conductor cross-sections at 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	
<ul> <li>using both clamping points</li> </ul>		2x (16 2)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.25 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height	0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1S2 (sand must not get inside the de-	
<ul> <li>during operation acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condense mist), 3S2 (sand must not get into the	//
ambient temperature			
<ul> <li>during operation</li> </ul>	°C	-25 +60	
during storage	°C	-40 +80	
derating temperature	°C	40	
protection class IP on the front acc. to IEC 60529		IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front		
Certificates/ approvals			
General Product Approval		EMC	Declaration of



**General Product Approval** 











Conformity

Test Certificates	other		Railway	
Type Test Certificates/Test Report Special Test Certificates	<u>Miscellaneous</u>	Confirmation	Vibration and Shock	Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	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
Further information		

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)

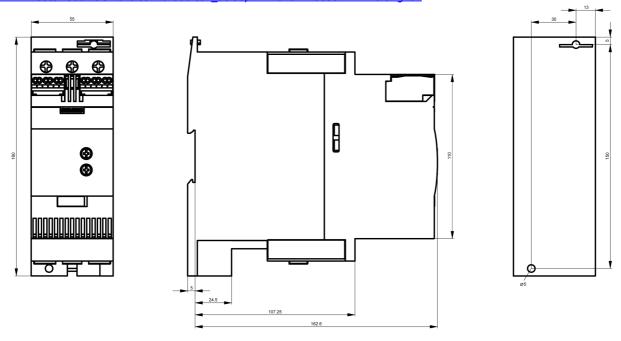
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3038-2BB14

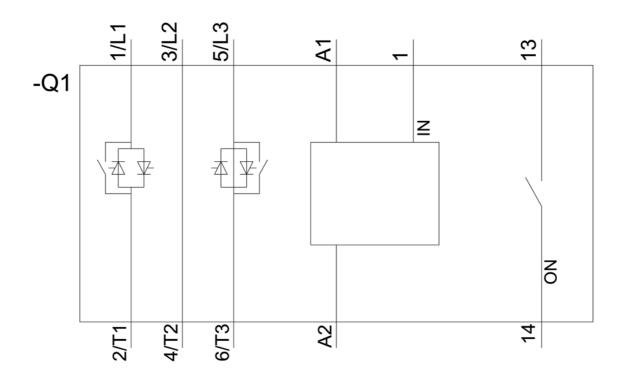
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB14">https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB14</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-2BB14&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-2BB14&lang=en</a>





last modified: 12/15/2020 ☑