## SIEMENS

## Data sheet

## 3RW3038-1BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation	_	Soft starter
product feature	-	
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		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
external reset		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
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	72
• at 50 °C rated value	А	62
• at 60 °C rated value	А	60
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	22
• at 400 V		
- at standard circuit at 40 °C rated value	kW	37
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	%	10
standard circuit		

continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during		15		
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	%	-10		
frequency				
relative positive tolerance of the control supply voltage	%	10		
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 voltage at DC	%	-10		
relative positive tolerance of the control supply voltage at DC	%	10		
display version for fault signal		red		
Mechanical data	_			
size of engine control device		S2		
width	mm	55		
	mm	160		
height	-	170		
depth factoring method	mm			
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	-			
		screw type terminals		
for main current circuit		screw-type terminals		
for auxiliary and control circuit		screw-type terminals		
number of NC contacts for auxiliary contacts		0		
number of NO contacts for auxiliary contacts		1		
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)		
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm <sup>2</sup>		
		1.5 25 mm <sup>2</sup>		
• stranded		1.0 30 mm		
type of connectable conductor croce coefficient for main				
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		0 (4.5 4.0 3)		
• solid		2x (1.5 16 mm <sup>2</sup> )		
contacts for box terminal using the back clamping point		1.5 25 mm²		
• solid				
• solid • finely stranded with core end processing		1.5 25 mm²		
contacts for box terminal using the back clamping point <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> </ul> <li>type of connectable conductor cross-sections for main</li>		1.5 25 mm²		
contacts for box terminal using the back clamping point <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> </ul> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li>	_	1.5 25 mm² 1.5 35 mm²		
contacts for box terminal using the back clamping point <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> </ul> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points <ul> <li>solid</li> </ul> </li>		1.5 25 mm <sup>2</sup> 1.5 35 mm <sup>2</sup> 2x (1.5 16 mm <sup>2</sup> )		

<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 (0.5 2.5 m	im²)		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 m	ım²)		
type of connectable conductor cross-sections for AWG cables					
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)			
<ul> <li>for auxiliary contacts finely stranded with core end</li> </ul>		2x (20 16)			
processing					
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)	
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occas	sional condensation), 1C	2 (no salt mist), 1S2	
during operation according to IEC 60721		3K6 (no formati	(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist),		
	-	552 (sanu musi	t not get into the devices	), Sivio	
ambient temperature	0.0	0.5			
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 v	vertical contact from the	front	
Environmental footprint					
Environmental Product Declaration(EPD)		Yes			
global warming potential [CO2 eq] total	kg	159			
global warming potential [CO2 eq] during manufacturing	kg	22			
global warming potential [CO2 eq] during sales	kg	0.289			
global warming potential [CO2 eq] during operation	kg	140			
global warming potential [CO2 eq] after end of life	kg	-3.2			
UL/CSA ratings	itg	0.2			
	-				
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				EMV	
		Ē	103	Â	
	<u>د</u>		ΓΠΙ	Ś	
CCC EG-Konf.	1	UL		RCM	
EMV Test Certificates	oth	ier		Railway	
KC Type Test Codifie Special Test C	`ortific	Confirmation	Miscellaneous	Special Test Cartific	
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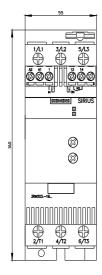
## Further information

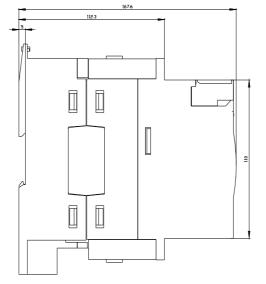
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.co m/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3038-1BB14 Cax online generator

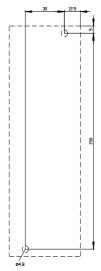
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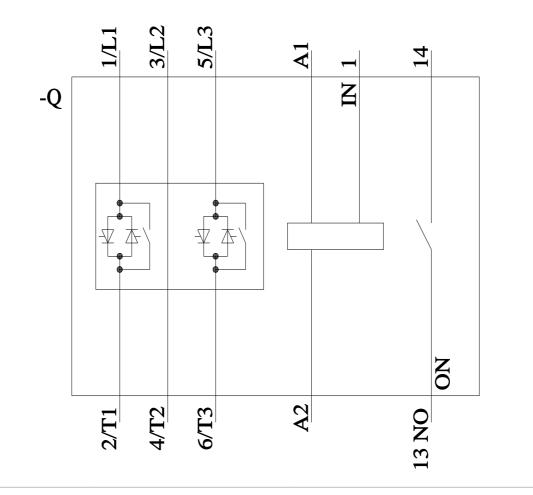
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-1BB14&lang=en









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