## SIEMENS

## Data sheet

## 3RW4038-1BB14



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>		Yes		
<ul> <li>motor overload protection</li> </ul>		Yes		
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No		
external reset		Yes		
<ul> <li>adjustable current limitation</li> </ul>		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		
Power Electronics				
operational current				
<ul> <li>at 40 °C rated value</li> </ul>	A	72		
<ul> <li>at 50 °C rated value</li> </ul>	A	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 standard circuit	%	10		
minimum load [%]	%	20		

	_					
adjustable motor current for motor overload protection minimum rated value	A	35				
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 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	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	%	-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	V	110 230				
relative negative tolerance of the control supply voltage at DC	%	-15				
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				
height	mm	160				
depth	mm	170				
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° totatable, 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				
<ul> <li>for auxiliary and control circuit</li> </ul>		screw-type 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)				
<ul> <li>finely stranded with core end processing</li> </ul>		0.75 25 mm <sup>2</sup>				
stranded		0.75 35 mm²				
type of connectable conductor cross-sections for main contacts for box terminal using the back 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>				
stranded		1.5 35 mm²				
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points						
• solid		2x (1.5 16 mm²)				

stranded type of connectable conductor cross-sections			2x (1.5 25 m	im²)		
type of connectable conductor cross-sections						
cables for main contacts for box terminal	for AWG					
<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 contacts	for auxiliary					
• solid			2x (0.5 2.5 n	nm²)		
<ul> <li>finely stranded with core end processing</li> </ul>				2x (0.5 1.5 mm²)		
type of connectable conductor cross-sections cables	for AWG		28 (0.0 1.0 1	,		
for auxiliary contacts			2x (20 14)			
<ul> <li>for auxiliary contacts finely stranded with co processing</li> </ul>	ore end		2x (20 14)			
Ambient conditions						
		_	5 000			
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>				sional condensation), 1C2		
during operation according to IEC 60721			3K6 (no format	(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist),		
			3S2 (sand mus	st not get into the devices)	31/16	
ambient temperature						
<ul> <li>during operation</li> </ul>		°C	-25 +60			
<ul> <li>during storage</li> </ul>		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front according to I	EC 60529		IP20			
touch protection on the front according to IEC	60529		finger-safe, for	finger-safe, for vertical contact from the front		
JL/CSA ratings			J J J			
yielded mechanical performance [hp] for 3-ph	aso AC motor					
	ase AC motor					
• at 220/230 V						
— at standard circuit at 50 °C rated valu	e	hp	20			
• at 460/480 V						
<ul> <li>— at standard circuit at 50 °C rated valu</li> </ul>		hp	40			
contact rating of auxiliary contacts according	to UL		B300 / R300			
Approvals Certificates						
General Product Approval						
CE UK EG-Konf. CA	<u>Confirmatio</u>	<u>n</u>		Ű	EHC	
EMV	For use in haz ous locations	ard-	Test Certificates		Marine / Shipping	
KC KC	(Ex)		Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	Ĵ&	
RCM	ATEX				DNV	
Marine / Shipping	other	F	Railway		Environment	
Lis PRS	<u>Confirmatio</u>	<u>n 5</u>	Special Test Certific- ate	<u>Confirmation</u>	EPD	

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=3RW4038-1BB14

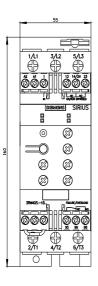
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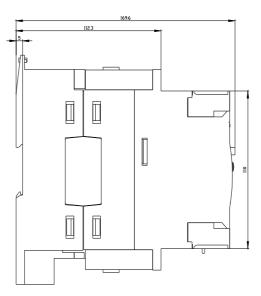
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

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

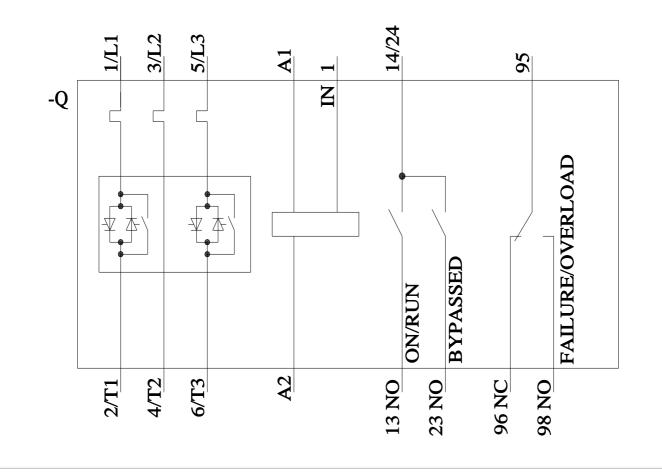
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4038-1BB14&lang=en









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