## 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 feature	-	511105
integrated bypass contact system		Yes
thyristors		Yes
product function	-	165
•		Van
intrinsic device protection		Yes
motor overload protection		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		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	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 standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	35

	0/			
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° rotatable, with vertical mounting surface +/- 10° t		
	-	surface +/- 10 Totatable, with vertical mounting surface +/- 10 t		
required spacing with side-by-side mounting		<u></u>		
• 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				
<ul> <li>for main current circuit</li> </ul>		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 mm²		
• 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 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 mm <sup>2</sup> )		
solid     finely stranded with core end processing		2x (1.5 16 mm <sup>2</sup> ) 2x (1.5 16 mm <sup>2</sup> )		
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		2x (1.5 16 mm²) 2x (1.5 16 mm²) 2x (1.5 25 mm²)		

type of connectable conductor cross cables for main contacts for box ter						
cubics for main contacts for box ter						
<ul> <li>using the back clamping point</li> </ul>	innai		16 2			
using the front clamping point			18 2			
using both clamping points			2x (16 2)			
type of connectable conductor cros	s-sections for auxiliarv		2x (10 2)			
contacts	· · · · · · · · · · · · · · · · · · ·					
• solid			2x (0.5 2.5 m	ım²)		
<ul> <li>finely stranded with core end pr</li> </ul>	ocessing		2x (0.5 1.5 m	nm²)		
type of connectable conductor cros cables	s-sections for AWG					
<ul> <li>for auxiliary contacts</li> </ul>			2x (20 14)			
<ul> <li>for auxiliary contacts finely stran</li> </ul>	nded with core end		2x (20 16)			
processing						
mbient conditions	eee level		5.000			
installation altitude at height above	sea level	m	5 000			
environmental category	C 60701		21/2 201 201	2M2 (may fall baight 0.2	m)	
during transport according to IE				2M2 (max. fall height 0.3		
<ul> <li>during storage according to IEC</li> </ul>	, 60721			1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
<ul> <li>during operation according to IE</li> </ul>	EC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
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	ording to IEC 60529		IP20			
touch protection on the front accord	ding to IEC 60529		finger-safe, for vertical contact from the front			
IL/CSA ratings						
yielded mechanical performance [h • at 220/230 V	p] for 3-phase AC motor					
— at standard circuit at 50 °C	crated value	hp	20			
• at 460/480 V		ΠP	20			
— at standard circuit at 50 °C	Crated value	hp	40			
contact rating of auxiliary contacts		r	B300 / R300			
opprovals Certificates	5					
General Product Approval						
CSA C			<u>Confirmation</u>			
General Product Approval EMV			use in hazard- locations	Test Certificates		
EAL 🧟	<u>×</u>		(Ex)	Type Test Certific- ates/Test Report	Special Test Certific- ate	
	'	othe	er.	Railway		
Marine / Shipping			Confirmation	Special Test Cartific	Confirmation	
Marine / Shipping	1000		<u>Confirmation</u>	Special Test Certific-	Confirmation	
Marine / Shipping	ds ter PRS	!		<u>ate</u>		
	ds ter PRS			ate		
	ds PRS			<u>ate</u>		

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

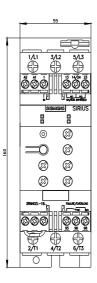
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4038-1BB14

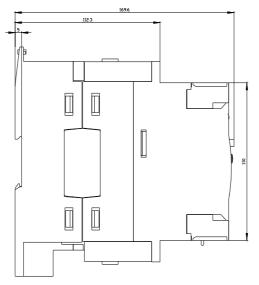
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

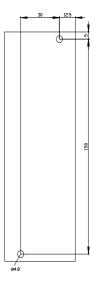
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

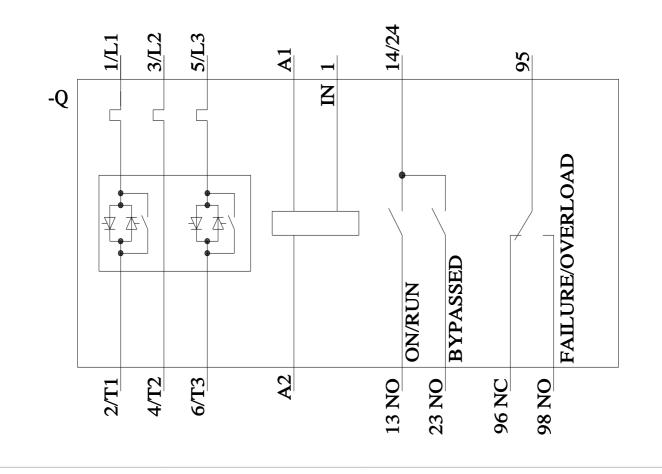
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

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









last modified:

3/11/2024 🖸