## SIEMENS

## Data sheet

## 3RW3038-2BB04



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 24 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
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
<ul> <li>inside-delta circuit</li> </ul>		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		
• 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	W	22 000
• at 400 V		
— at standard circuit at 40 °C rated value	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	%	10

ctandard aircuit	_	
standard circuit minimum load [%]	%	10
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during		15
operation typical	vv	
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 rated value	V	24
• at 60 Hz rated value	V	24
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 rated value	V	24
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
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		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded 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 mm²
stranded		1.5 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)

	with core and processing			1.5 25 mm <sup>2</sup>	2	
- ofrended	with core end processing			1.5 25 mm <sup>2</sup>		
	conductor cross-section x terminal using both c			1.5 35 ጠጠ		
• solid				2x (1.5 16 r	mm²)	
	with core end processing			2x (1.5 16 r	,	
<ul> <li>stranded</li> </ul>				2x (1.5 25 r		
type of connectable cables for main cont	conductor cross-section acts for box terminal	ns at AWG				
<ul> <li>using the back of</li> </ul>	clamping point			16 2		
<ul> <li>using the front c</li> </ul>	lamping point			18 2		
<ul> <li>using both clam</li> </ul>	ping points			2x (16 2)		
type of connectable auxiliary contacts	conductor cross-section	ns for				
<ul> <li>solid</li> </ul>				2x (0.25 2.5	ō mm²)	
<ul> <li>finely stranded v</li> </ul>	with core end processing			2x (0.25 1.5	ō mm²)	
type of connectable cables	conductor cross-section	ns at AWG				
<ul> <li>for auxiliary cont</li> </ul>	tacts			2x (24 14)		
Ambient conditions						
installation altitude a	it height above sea leve	I	m	5 000		
environmental categ	ory					
<ul> <li>during transport</li> </ul>	acc. to IEC 60721			2K2, 2C1, 2S	1, 2M2 (max. fall l	neight 0.3 m)
<ul> <li>during storage a</li> </ul>	acc. to IEC 60721				asional condensa ist not get inside t	tion), 1C2 (no salt mist), he devices), 1M4
<ul> <li>during operation</li> </ul>	acc. to IEC 60721					ndensation), 3C3 (no salt nto the devices), 3M6
ambient temperature	)					
<ul> <li>during operation</li> </ul>	1		°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-40 +80		
derating temperature	9		°C	40		
protection class IP o	n the front acc. to IEC 6	0529		IP20		
touch protection on	the front acc. to IEC 605	29		finger-safe, fo	r vertical contact	from the front
Certificates/ approvals	;					
General Product Ap	proval				EMC	Declaration of Conformity
General Product Ap	proval	Ē		ror	емс	Conformity
General Product Ap		(JL)		EAC		
General Product Ap		UL UL		EAC		Conformity
General Product Ap	proval	UL	othe			Conformity

Railway

**Confirmation** 

hp	20
hp	40
	B300 / R300
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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=3RW3038-2BB04

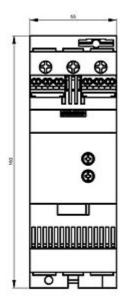
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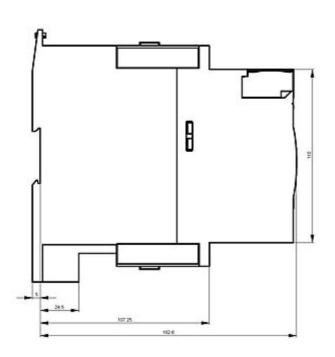
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB04

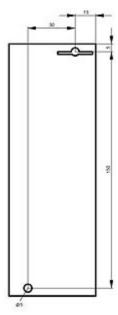
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

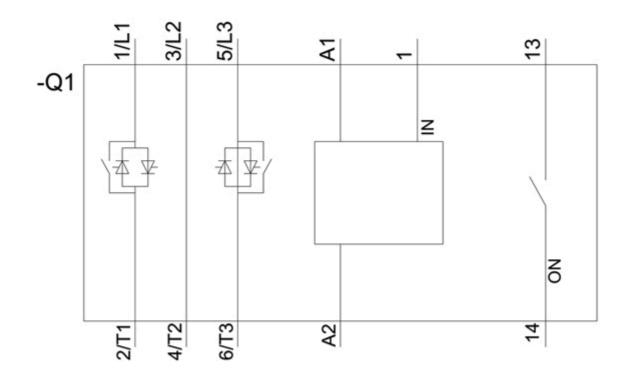
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-2BB04&lang=en









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