## SIEMENS

## Data sheet

## 3RW4038-1BB04



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 24 V AC/DC Screw 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>		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
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>	А	72
<ul> <li>at 50 °C rated value</li> </ul>	А	62
• at 60 °C rated value	А	60
yielded mechanical performance for 3-phase motors • at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> <li>at 400 V</li> </ul>	W	22 000
— 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

standard circuit	_	
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		
<ul> <li>at 50 Hz rated value</li> </ul>	V	24
at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red
Mechanical data	_	
size of engine control device width		S2 55
	mm	160
height 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
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
for main current circuit     for auxiliary and control circuit		screw-type terminals
for main current circuit     for auxiliary and control circuit     number of NC contacts for auxiliary contacts		screw-type terminals 0
for main current circuit     for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts		screw-type terminals 0 2
for main current circuit         for auxiliary and control circuit         number of NC contacts for auxiliary contacts         number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts	-	screw-type terminals 0
for main current circuit     for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts		screw-type terminals 0 2
• for main current circuit     • for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     type of connectable conductor cross-sections for     main contacts for box terminal using the front     clamping point     • solid		screw-type terminals 0 2 1
for main current circuit         for auxiliary and control circuit         number of NC contacts for auxiliary contacts         number of NO contacts for auxiliary contacts         number of CO contacts for auxiliary contacts         type of connectable conductor cross-sections for         main contacts for box terminal using the front         clamping point		screw-type terminals 0 2 1 2x (1.5 16 mm <sup>2</sup> )

type of connectable cond main contacts for box ter					
<ul> <li>clamping point</li> <li>solid</li> </ul>			2x (1 E 16 m	2)	
			2x (1.5 16 m	lill <sup>-</sup> )	
<ul> <li>finely stranded with c</li> </ul>	ore end processing		1.5 25 mm <sup>2</sup>		
stranded			1.5 35 mm²		
type of connectable cond main contacts for box ter points	luctor cross-sections for minal using both clamping				
<ul> <li>solid</li> </ul>			2x (1.5 16 m	ım²)	
<ul> <li>finely stranded with or</li> </ul>	ore end processing		2x (1.5 16 m	im²)	
<ul> <li>stranded</li> </ul>			2x (1.5 25 m	im²)	
type of connectable cond cables for main contacts	luctor cross-sections at AWG for box terminal				
<ul> <li>using the back clamp</li> </ul>	ping point		16 2		
<ul> <li>using the front clamp</li> </ul>	ing point		18 2		
<ul> <li>using both clamping</li> </ul>			2x (16 2)		
type of connectable cond auxiliary contacts					
<ul> <li>solid</li> </ul>			2x (0.5 2.5 n	nm²)	
<ul> <li>finely stranded with or</li> </ul>	ore end processing		2x (0.5 1.5 n		
	luctor cross-sections at AWG	_		,	
<ul> <li>for auxiliary contacts</li> </ul>			2x (20 14)		
-	finely stranded with core end		2x (20 16)		
processing					
Ambient conditions					
installation altitude at hei	ght above sea level	m	5 000		
environmental category					
<ul> <li>during transport acc.</li> </ul>	to IEC 60721		2K2, 2C1, 2S1	, 2M2 (max. fall heigh	it 0.3 m)
<ul> <li>during storage acc. to</li> </ul>				sional condensation)	
0 0				st not get inside the de	
<ul> <li>during operation acc.</li> </ul>	to IEC 60721			ion of ice, no condena nd must not get into th	
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			IP00		
Certificates/ approvals					
General Product Approv	2				EMC
General Product Approv	ai				EIVIC
(SPE	<b>((()</b>	)	FAL	FAL	Ô
CSA	ccc UL				RCM
For use in hazardous De locations	claration of Conformity	Tes	t Certificates		Marine / Shipping
K ATEX	Miscelland EG-Konf.		<u>Type Test</u> ertificates/Test <u>Report</u>	<u>Special Test</u> Certificate	Lloyds Register urs
Marine / Shipping	other	Rai	lway		





**Confirmation** 

100 A	ratings	
		4
	Taungs	<u>.</u>

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		

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=3RW4038-1BB04

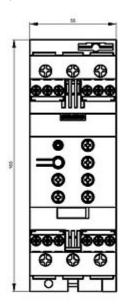
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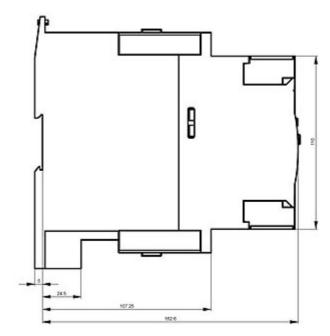
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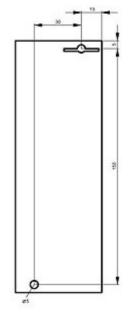
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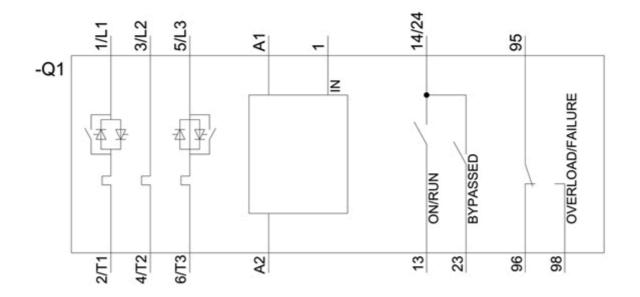
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4038-1BB04&lang=en









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