## SIEMENS

## Data sheet

## 3RW4038-2BB04



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>		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
<ul> <li>at 60 °C rated value</li> </ul>	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 standard circuit	%	10
minimum load [%]	%	20

adjustable motor current for motor overload protection minimum rated value	А	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	_	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
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>		spring-loaded 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 • finely stranded with core end processing		2x (1.5 16 mm²) 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 mm <sup>2</sup> )
+ 00llu		

<ul> <li>finely strande</li> </ul>	ed with core end processin	Ig		1.5 25 mm²		
<ul> <li>stranded</li> </ul>				1.5 35 mm²		
	le conductor cross-sect box terminal using both					
• solid				2x (1.5 16 m	1m²)	
	ed with core end processin	a		2x (1.5 16 m		
<ul> <li>stranded</li> </ul>		.9		2x (1.5 25 m		
	le conductor cross-sect ontacts for box terminal	ions at AWG		,	,	
<ul> <li>using the bac</li> </ul>	k clamping point			16 2		
<ul> <li>using the from</li> </ul>	nt clamping point			18 2		
<ul> <li>using both cla</li> </ul>	amping points			2x (16 2)		
type of connectab auxiliary contacts	le conductor cross-sect	ions for				
<ul> <li>solid</li> </ul>				2x (0.25 2.5	,	
	ed with core end processin	-		2x (0.25 1.5	mm²)	
cables	le conductor cross-sect	ions at AWG				
<ul> <li>for auxiliary c</li> </ul>	contacts			2x (24 14)		
Ambient conditions	•					
installation altitud	e at height above sea le	vel r	n	5 000		
environmental cat	egory					
<ul> <li>during transp</li> </ul>	ort acc. to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)
	e acc. to IEC 60721			1S2 (sand mus	isional condensation), at not get inside the de	evices), 1M4
<ul> <li>during operat</li> </ul>	tion acc. to IEC 60721				tion of ice, no condens nd must not get into th	
ambient temperate						
<ul> <li>during operat</li> </ul>	tion		С	-25 +60		
during storage			С	-40 +80		
derating temperat			С	40		
protection class IP on the front acc. to IEC 60529				IP20		
touch protection on the front acc. to IEC 60529				finger-safe, for	vertical contact from	the front
Certificates/ approv	als					
General Product	Approval				EMC	For use in hazard- ous locations
SP		(UL)	I	EAC	RCM	K ATEX
Declaration of Conformity	Test Certificates		Marir	ne / Shipping		
C C EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ļ	Lloyd's Kegister	PRS	DNV-GL
other	Railway					
Confirmation	<b>Confirmation</b>	Vibration and Shock				

UL/CSA ratings

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		
— at standard circuit at 50 °C rated value	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=3RW4038-2BB04

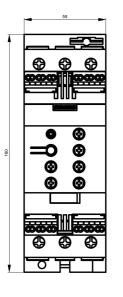
Cax online generator

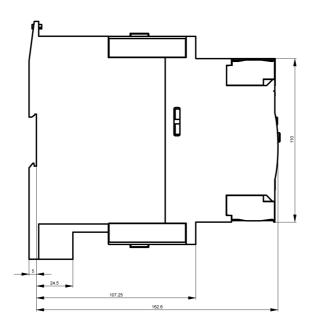
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-2BB04

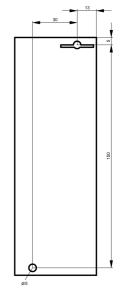
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

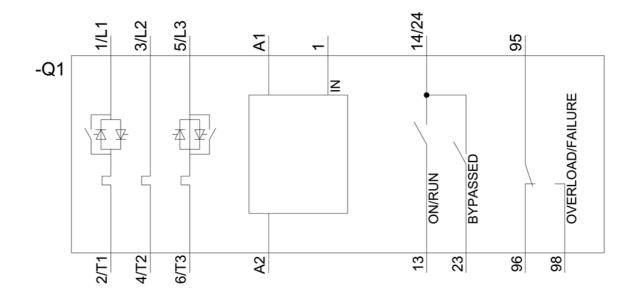
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-2BB04

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









last modified:

12/15/2020 🖸