## SIEMENS

## Data sheet

## 3RW3038-1BB04



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>		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		
<ul> <li>at 40 °C rated value</li> </ul>	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		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	22 000
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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 [%]	%	10

continuous operating current 10/ of lo1 at 40 °C	%	115
continuous operating current [% of le] at 40 °C	- % W	15
power loss [W] at operational current at 40 °C during 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	%	-10
voltage frequency		
relative positive tolerance of the control supply	%	10
voltage frequency	-	
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	%	-10
voltage at DC relative positive tolerance of the control supply	- %	10
voltage at DC		
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		
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		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 mm <sup>2</sup> )
<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		

Test Certificates		other			Railway	
SP M		(U) u		EHC	RCM	CE EG-Konf.
General Product Approv	al				EMC	Declaration of Conformity
ertificates/ approvals						
touch protection on the front acc. to IEC 60529				finger-safe, fe	or vertical contact from	the front
protection class IP on the	e front acc. to IEC	60529		IP20		
derating temperature			°C	40		
during storage			°C	-40 +80		
during operation			°C	-25 +60		
during operation acc. to IEC 60721 ambient temperature				ation of ice, no conder and must not get into t		
					ust not get inside the c	
during transport acc. to IEC 60721				casional condensation	,	
during transport acc. to IEC 60721			2K2_2C1_25	61, 2M2 (max. fall heig	ht 0 3 m)	
environmental category	-9-11 above 364 16			0 000		
nstallation altitude at he	ight above sea lev	vel	m	5 000		
processing nbient conditions						
<ul> <li>for auxiliary contacts</li> </ul>	finely stranded wit	th core end		2x (20 16)		
<ul> <li>for auxiliary contacts</li> </ul>				2x (20 14)		
type of connectable conc cables	ductor cross-sect	ions at AWG				
<ul> <li>finely stranded with one</li> </ul>		-		2x (0.5 1.5	5 mm²)	
<ul> <li>solid</li> </ul>				2x (0.5 2.5	5 mm²)	
ype of connectable conc auxiliary contacts	ductor cross-sect	ions for				
using both clamping points				2x (16 2)		
<ul> <li>using the front clamp</li> </ul>				18 2		
<ul> <li>cables for main contacts</li> <li>using the back clamp</li> </ul>				16 2		
ype of connectable cond	ductor cross-sect	ions at AWG			,	
stranded		9		2x (1.5 25		
<ul> <li>solid</li> <li>finely stranded with one</li> </ul>	core and processin	ia.		2x (1.5 16 2x (1.5 16		

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=3RW3038-1BB04

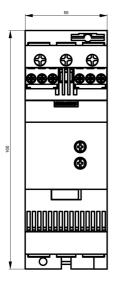
Cax online generator

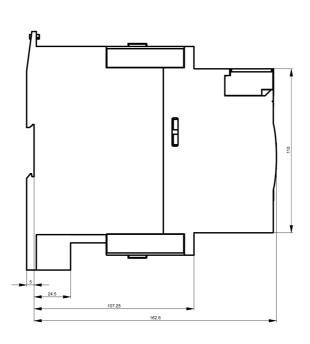
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-1BB04

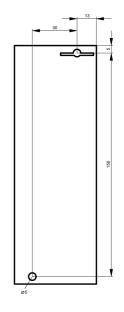
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

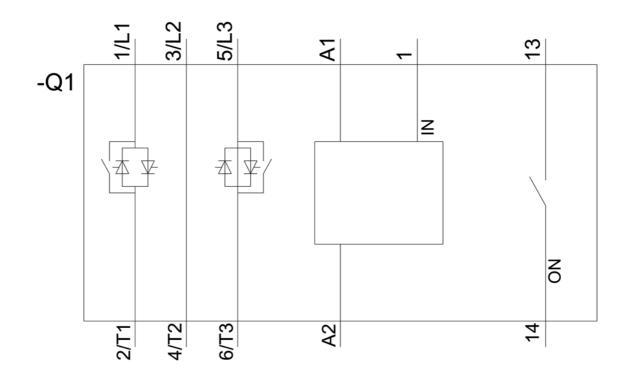
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-1BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3038-1BB04&lang=en









last modified:

12/15/2020 🖸