SIEMENS

Data sheet

3RW4038-1BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		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	A	35

continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 15

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	15
operation typical		
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	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
relative negative tolerance of the control supply	%	-15
voltage at AC at 50 Hz relative positive tolerance of the control supply	%	10
voltage at AC at 50 Hz		
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	%	-15
voltage at DC		
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
		S2
size of engine control device		
width	mm	55
height	mm	160
depth for the size of the size	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 auxiliary and control circuit 		screw-type terminals
number of NC contacts for auxiliary contacts		0
•		2
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		2
type of connectable conductor cross-sections for main contacts for box terminal using the front		
clamping point		
• solid		2x (1.5 16 mm²)
		2x (1.5 16 mm²) 0.75 25 mm²
• finely stranded with core end processing		0.75 25 mm²
finely stranded with core end processingstranded		
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back 		0.75 25 mm²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point 		0.75 25 mm² 0.75 35 mm²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid 		0.75 25 mm² 0.75 35 mm² 2x (1.5 16 mm²)
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing 		0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing stranded 		0.75 25 mm² 0.75 35 mm² 2x (1.5 16 mm²)
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing stranded type of connectable conductor cross-sections for 		0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping 		0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing stranded type of connectable conductor cross-sections for 		0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²

Subject to change without notice © Copyright Siemens

Constant states and a st				0	- 2)	
stranded	with core end processir	Ig		2x (1.5 16 mm		
type of connectable	conductor cross-sect	ions at AWG		2x (1.5 25 mm	1)	
 using the back 				16 2		
 using the front 	1 01			18 2		
 using both clan 				2x (16 2)		
type of connectable auxiliary contacts	conductor cross-sect	ions for				
 solid 				2x (0.5 2.5 mr	n²)	
 finely stranded 	with core end processir	ng		2x (0.5 1.5 mr	m²)	
cables	conductor cross-sect	ions at AWG				
 for auxiliary cor 				2x (20 14)		
processing	ntacts finely stranded wi	th core end		2x (20 16)		
Ambient conditions						
	at height above sea le	vel	m	5 000		
environmental cate						
• ·	rt according to IEC 6072				2M2 (max. fall heigh	,
 during storage 	according to IEC 60721				ional condensation)	
• during operatio	n according to IEC 607	01			not get inside the de	sation), 3C3 (no salt
		- 1			I must not get into th	
ambient temperatur	e				-	
 during operatio 	n		°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatur	re		°C	40		
	on the front according	to IEC		IP20		
60529	the frent coordina to			financia da fario	entical contract from	the frent
-	the front according to	TEC 60529	_	linger-sale, for v	ertical contact from	
Certificates/ approval		_	_		_	
General Product Ap	oproval					EMC
(SP)	<u>Confirmation</u>			(UL) UL	EHC	RCM
Declaration of Conformity	Test Certificates		Mar	ine / Shipping		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Cel ate	<u>rtific-</u>	Llovds Register urs	PRS	
other	Railway					
Confirmation	Vibration and Shock	Confirmatior	1			

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	20
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	40

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=3RW4038-1BB14

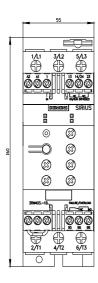
Cax online generator

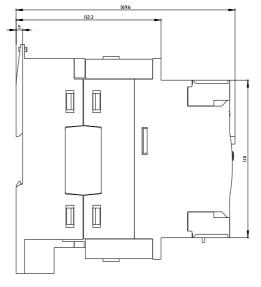
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

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

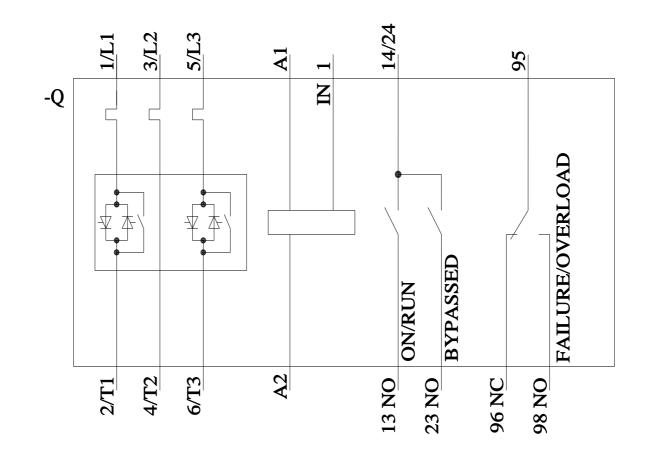
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

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:

1/16/2022 🖸