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		G
according to IEC 204-2 according to IEC 750		
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	A	72
 at 50 °C rated value 	A	62
 at 60 °C rated value 	A	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	А	35

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

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	%	-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 50 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 voltage at AC at 50 Hz	%	10
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		
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
 for auxiliary and control circuit 		screw-type 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		2x (1.5 16 mm²)
 finely stranded with core end processing 		0.75 25 mm ²
stranded stranded		0.75 25 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
 finely stranded with core end processing 		1.5 25 mm ²
stranded		1.5 35 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (1.5 16 mm²)

 finely stranded 	with core end processin	g		2x (1.5 16 m		
 stranded 				2x (1.5 25 m	m²)	
	e conductor cross-secti itacts for box terminal	ons at AWG				
 using the back 	clamping point			16 2		
 using the front 	clamping point			18 2		
 using both clar 	1 01			2x (16 2)		
auxiliary contacts	conductor cross-secti	ons for				
 solid 				2x (0.5 2.5 m	,	
	with core end processin	•		2x (0.5 1.5 m	im²)	
cables	conductor cross-secti	ons at AWG				
 for auxiliary co 				2x (20 14)		
processing	ntacts finely stranded wit	h core end		2x (20 16)		
Ambient conditions		_				
	at height above sea lev	/el	m	5 000		
environmental cate						
	rt according to IEC 6072	1			2M2 (max. fall height	
 during storage 	according to IEC 60721				sional condensation), t not get inside the de	
 during operation 	on according to IEC 6072	1		3K6 (no formati	on of ice, no condens d must not get into the	ation), 3C3 (no salt
ambient temperatur	0			mist), 552 (San	a mast not get into the	e devices), Sivio
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperatur	re		°C	40		
	on the front according	to IEC		IP20		
60529	Ū					
-	the front according to	IEC 60529		finger-safe, for	vertical contact from t	he front
Certificates/ approva	ls					
General Product A	pproval					EMC
SP.	<u>Confirmation</u>			(U)	EHC	RCM
Declaration of Conformity	Test Certificates		Mar	ine / Shipping		
j						
(6	<u>Type Test Certific-</u> ates/Test Report	Special Test Ce ate	ertific-	Lloyds	6	An and a second second
EG-Konf.					PRS	DNV-GL
other	Railway					
Confirmation	Vibration and Shock	<u>Confirmation</u>	n			

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

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 on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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

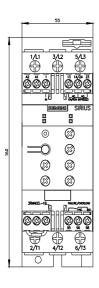
Cax online generator

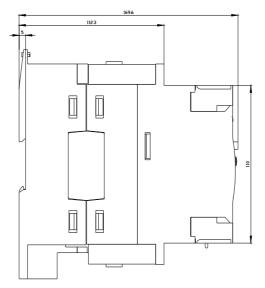
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

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

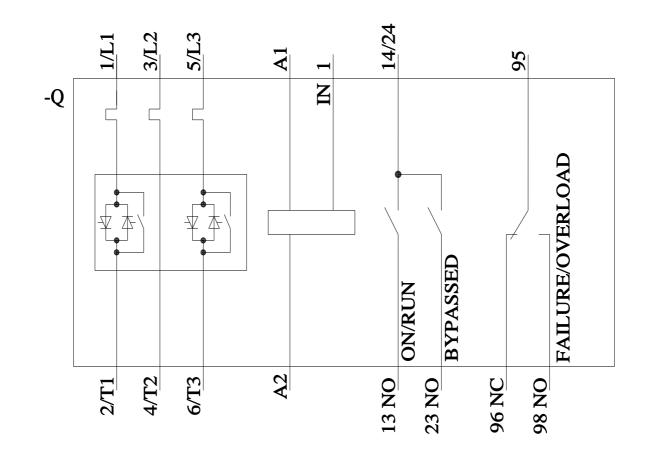
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

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









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