SIEMENS

Data sheet 3RW4038-1BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °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	Α	72
• at 50 °C rated value	Α	62
at 60 °C rated value	Α	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	%	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 voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
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 voltage at AC at 50 Hz	%	-15
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 voltage at DC	%	-15
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		Surface in to Totalable, with vertical mounting surface in to t
• upwards	mm	60
at the side	mm	30
downwards	mm	40
wire length maximum	m	300
	- 111	
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 mm²
stranded		0.75 35 mm²
stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
type of connectable conductor cross-sections for main		0.75 35 mm ² 2x (1.5 16 mm ²)
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid		2x (1.5 16 mm²)
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing		2x (1.5 16 mm²) 1.5 25 mm²
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		2x (1.5 16 mm²) 1.5 25 mm²
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 points		2x (1.5 16 mm²) 1.5 25 mm² 1.5 35 mm²

	16 2
	18 2
	2x (16 2)
	2x (0.5 2.5 mm²)
	2x (0.5 1.5 mm²)
	2x (20 14)
	2x (20 16)
m	5 000
	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
°C	-25 +60
°C	-40 +80
°C	40
	IP20
	finger-safe, for vertical contact from the front
	°C °C

General Product Approval

EMC



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping

other

Railway





Confirmation

Vibration and Shock

Confirmation

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				

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an

EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4038-1BB14

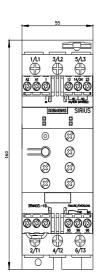
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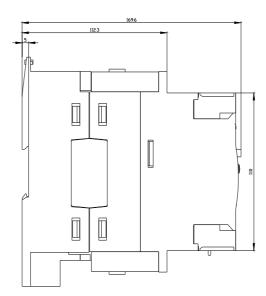
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4038-1BB1408-1BB1408-1BB14$

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

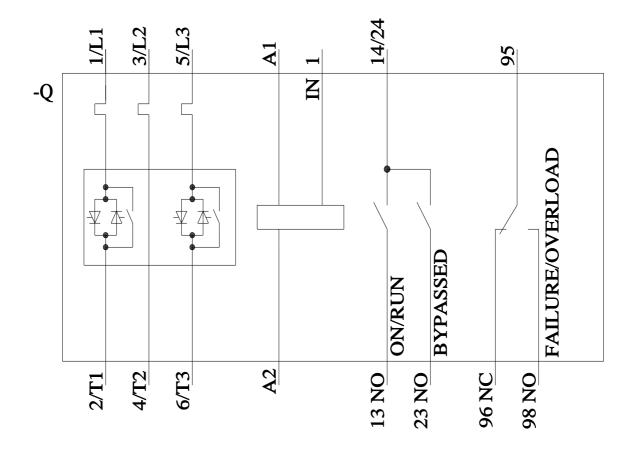
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

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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