SIEMENS

Data sheet 3RW3038-2BB14



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

General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
 intrinsic device protection 		No
 motor overload protection 		No
 evaluation of thermistor motor protection 		No
external reset		No
adjustable current limitation		No
• 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		
 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 	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	%	10

standard circuit	_	
minimum load [%]	%	10
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 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	%	-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	V	110 230
relative negative tolerance of the control supply voltage at DC	% -	-10
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 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
for auxiliary and control circuit	_	spring-loaded 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)
 finely stranded with core end processing 		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 mm²)
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 finely stranded with core end processing 		1.5 25 mm²

• stranded		1.5 35 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
• solid		2x (1.5 16 n	nm²)	
 finely stranded with core end processing 		2x (1.5 16 n	nm²)	
stranded		2x (1.5 25 n	nm²)	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
 using the back clamping point 		16 2		
 using the front clamping point 		18 2		
 using both clamping points 		2x (16 2)		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 2.5	5 mm²)	
 finely stranded with core end processing 		2x (0.25 1.5	5 mm²)	
type of connectable conductor cross-sections at AWG cables				
 for auxiliary contacts 		2x (24 14)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage acc. to IEC 60721 			asional condensation), st not get inside the dev	
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				
 during operation 	°C	-25 +60		
during storage	°C	-40 +80		
derating temperature	°C	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/ approvals				
General Product Approval			EMC	Declaration of Conformity











Miscellaneous

Declaration of	of
Conformity	

Test Certificates

other

Railway



Type Test Certificates/Test Report

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

Confirmation

Miscellaneous

Confirmation

Railway

Vibration and Shock

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- 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=3RW3038-2BB14

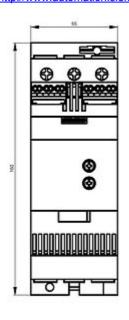
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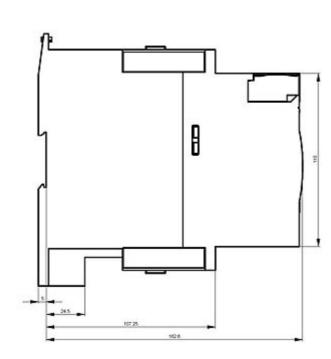
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB14

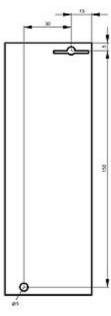
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

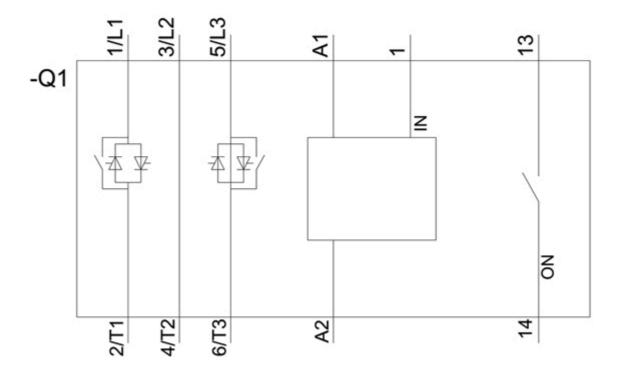
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3038-2BB14&lang=en









last modified: 12/15/2020 🖸