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 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 televenes of the executive frances	%	10
relative positive tolerance of the operating frequency		
operating voltage at standard circuit rated value	V	200 480
	V %	-15

	_	
standard circuit		-
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 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	%	-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
size of engine control device width	mm	55
size of engine control device width height	mm	55 160
size of engine control device width height depth	_	55 160 170
size of engine control device width height depth fastening method	mm	55 160 170 screw and snap-on mounting
size of engine control device width height depth	mm	55 160 170
size of engine control device width height depth fastening method	mm	55 160 170 screw and snap-on mounting 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
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards	mm	55 160 170 screw and snap-on mounting 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
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size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm mm mm	160 170 screw and snap-on mounting 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
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size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm mm mm	55 160 170 screw and snap-on mounting 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 60 30 40 300 3 screw-type terminals
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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 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 mm²)	
 finely stranded with core end processing 		2x (1.5 16 mm²)	
• stranded		2x (1.5 25 mm²)	
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 (0.5 2.5 mm²)	
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
 for auxiliary contacts 		2x (20 14)	
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)	
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 		1K6 (only occasional condensation), 1 1S2 (sand must not get inside the dev	
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensa mist), 3S2 (sand must not get into the	//
ambient temperature			
during operation	°C	-25 +60	
during storage	°C	-40 +80	
derating temperature	°C	40	
protection class IP		IP00	
Certificates/ approvals			
General Product Approval			EMC



EG-Konf.









LRS

For use in hazardous locations	Declaration of Co	nformity	Test Certificates		Marine / Shipping
⟨£x⟩	C€	<u>Miscellaneous</u>	Type Test Certificates/Test Report	Special Test Certificate	Lloyd's Register

Marine / Shipping	other	Railway
•		

ATEX





hp	20
hp	40
	B300 / R300
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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

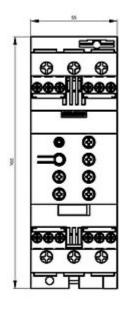
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-1BB14

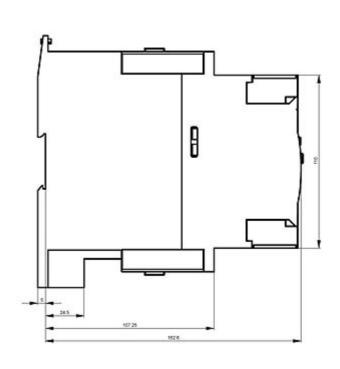
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

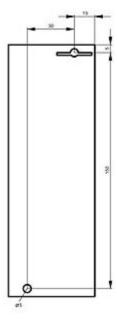
https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-1BB14

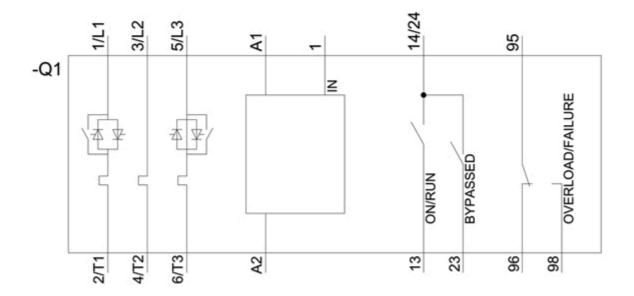
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-1BB14&lang=en









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