SIEMENS

Data sheet

3RW3038-2BB14



SIRIUS soft starter S2 72 A, 37 kW/400 V, 40 °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 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 [%]	%	10
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 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	%	-10
voltage at DC relative tolerance of the control supply	%	10
voltage at DC		
display version for fault signal		red
Mechanical data		
size of engine control device	200	S2
width	mm	55 160
height depth	mm 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		orrow two terminals
 for main current circuit for auxiliary and control circuit 		screw-type terminals spring-loaded terminals
• for auxiliary and control circuit number of NC contacts for auxiliary contacts		o
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		$2x(1 - 16 mm^2)$
 solid finally stranded with core and processing 		2x (1.5 16 mm²) 1.5 25 mm²
 finely stranded with core end processing stranded 		1.5 25 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back		
clamping point		$2 \times (1.5 - 1.6 \text{ mm}^2)$
 solid finely stranded with core end processing 		2x (1.5 16 mm²) 1.5 25 mm²
 Intervision and ed with core end processing 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 processing 		2x (1.5 16 mm ²)
• stranded		2x (1.5 25 mm²)
type of connectable conductor cross-sections at AWG		

 using the back using the front using both clan type of connectable auxiliary contacts solid finely stranded 	clamping point	tions for		16 2 18 2 2x (16 2) 2x (0.25 2.5 2x (0.25 1.5		
 for auxiliary cor 	ntacts			2x (24 14)		
Ambient conditions				, , , , , , , , , , , , , , , , , , ,		
environmental categ • during transpor • during storage • during operation ambient temperatur • during operation • during storage derating temperatur protection class IP of 60529	t according to IEC 6072 according to IEC 60721 in according to IEC 6072 in re on the front according the front according to is	21 21 • • • •	n C C	1K6 (only occ 1S2 (sand mu 3K6 (no forma mist), 3S2 (sa -25 +60 -40 +80 40 IP20	1, 2M2 (max. fall heigh asional condensation) ist not get inside the da ation of ice, no conden ind must not get into th r vertical contact from	, 1C2 (no salt mist), evices), 1M4 sation), 3C3 (no salt he devices), 3M6
Declaration of Conformity	Test Certificates		othe	r		Railway
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	Mi	<u>scellaneous</u>	<u>Confirmation</u>	Vibration and Shock
Railway						
Confirmation						

hp	20				
hp	40				
	B300 / R300				
Further information					
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging					
	hp				

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=3RW3038-2BB14

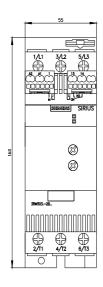
Cax online generator

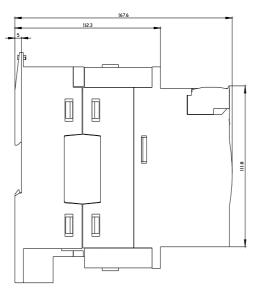
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3038-2BB14

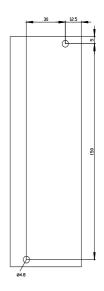
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

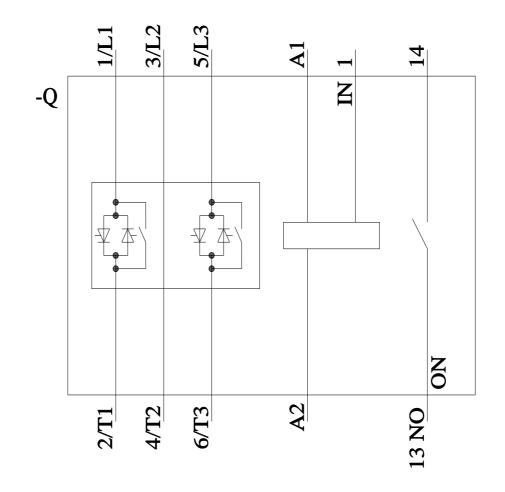
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-2BB14

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









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