SIEMENS

Data sheet 3RW3036-2BB14



SIRIUS soft starter S2 45 A, 22 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	45
 at 50 °C rated value 	Α	42
at 60 °C rated value	Α	39
yielded mechanical performance for 3-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	W	11 000
● at 400 V		
— at standard circuit at 40 °C rated value	W	22 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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	6
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)
finely stranded with core end processing		1.5 25 mm ²
		1.J ZJ

• 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	mm²)	
finely stranded with core end processing		2x (0.25 1.5	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 de	
• during operation acc. to IEC 60721			tion of ice, no condens nd must not get into the	
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	ne front
Certificates/ approvals				
General Product Approval			EMC	Declaration of Conformity













Test Certificates	other		Railway	
Type Test Certificates/Test Report ate	<u>Miscellaneous</u>	Confirmation	Confirmation	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	15
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	30
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=3RW3036-2BB14

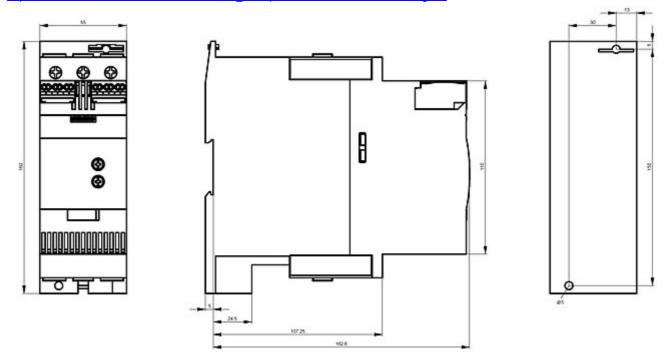
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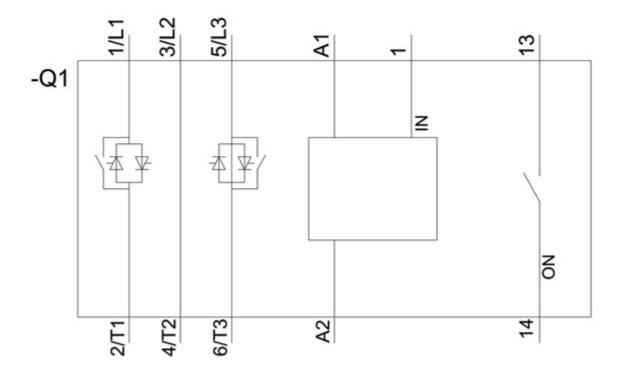
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW3036-2BB14}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3036-2BB14&lang=en





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