SIEMENS

Data sheet 3RW4036-1BB14



SIRIUS soft starter S2 45 A, 22 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	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 	kW	11
● at 400 V		
— at standard circuit at 40 °C rated value	kW	22
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 standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	23

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	
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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	
relative negative tolerance of the control supply voltage at AC at 60 Hz	
relative positive tolerance of the control supply voltage at AC at 60 Hz	
control supply voltage 1 at DC V 110 230	
relative negative tolerance of the control supply voltage at	
relative positive tolerance of the control supply voltage at	
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 +/- rotatable, with vertical mounting surface +/- 22.5° tiltate front and back Without additional fan: With vertical mo surface +/-10° rotatable, with vertical mounting surface	ole to the unting
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 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	
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	
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 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)	
 solid finely stranded with core end processing 2x (1.5 16 mm²) 2x (1.5 16 mm²) 	

type of connectable conductor cross-sections for 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 for 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 according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according 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 according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
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

General Product Approval











Confirmation



General Product Approval

EMV

For use in hazardous locations

Test Certificates





<u>KC</u>



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping







Confirmation

other

Special Test Certificate

Railway

Confirmation

Environment

Environmental Confirmations

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

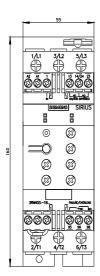
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4036-1BB14

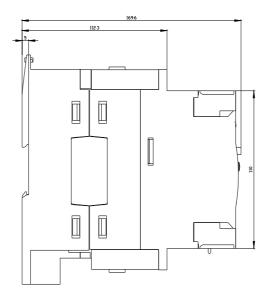
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4036-1BB14

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

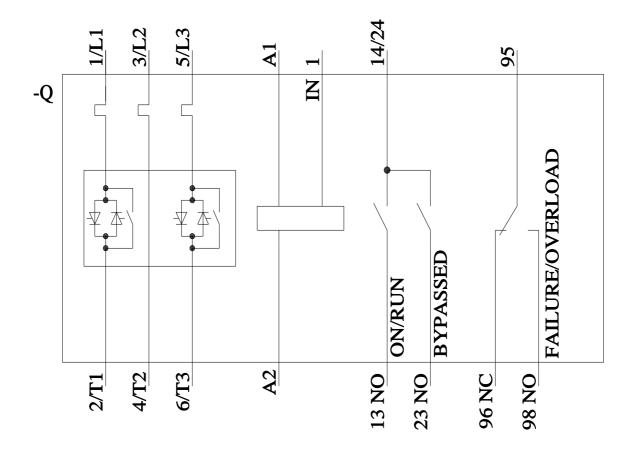
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4036-1BB14&lang=en









last modified: 3/11/2024 🖸