## **SIEMENS**

Data sheet 3RW3014-2BB04



SIRIUS soft starter S00 6.5 A, 3 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 24 V AC/DC Spring-type terminals

product brand name		CIDILIC
product brand name		SIRIUS
product feature		· ·
integrated bypass contact system		Yes
• thyristors		Yes
product function		
intrinsic device protection		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		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
ower Electronics		
product designation		Soft starter
operational current		
at 40 °C rated value	Α	6.5
at 50 °C rated value	Α	6
• at 60 °C rated value	А	5.5
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	1.5
• at 400 V		
— at standard circuit at 40 °C rated value	kW	3
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	1
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
	%	115

operation typical  Spee of voltage of the control supply voltage  Spee of voltage frequency 2 rated value  Control supply voltage frequency 2 rated value  Control supply voltage frequency 2 rated value  Frequency  Freque	power loss [W] at operational current at 40 °C during	W	0.5
sype of voltage of the control supply voltage or the control supply voltage frequency 1 rated value			
control supply voltage frequency 1 rated value retakive negative tolerance of the control supply voltage retakive negative tolerance of the control supply voltage retakive negative tolerance of the control supply voltage at 50 httpstd value at 50			
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frequency  at 80 Hz rated value  v 24  - 15  Ac at 50 Hz rated value  v 24  - 15  Ac at 50 Hz rated value  v 24  - 16  Ac at 50 Hz rated value  v 24  - 16  Ac at 50 Hz rated value  v 24  - 17  - 18  - 19  - 19  - 19  - 19  - 19  - 19  - 19  - 10	frequency		
* at 50 Hz rated value		%	10
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AC at 60 Hz  rolative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage 1 at DC rated value  rolative positive tolerance of the control supply voltage at DC  rolative positive tolerance of the control supply voltage at DC  display version for fault signal  Mechanical data  size of engine control device  width  mm 45  height mm 120  depth mm 150  fastening method mounting position  fastening with side-by-side mounting  **upwards**  **of availably and control circuit  **of availably and control circuit  **of main current circuit  **of main current circuit  **of main current circuit  **of connectable conductor cross-sections for AWG  **enlied standard with core end processing  **enlied y standed with core end processing  **enlied y standed with core end processing  **pype of connectable conductor cross-sections for MWG  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **enlied standard with core end processing  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for main contacts  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for AWG  **enlied standard with core end processing  **pupper of connectable conductor cross-sections for AWG  **enlied standard with core end pro		%	10
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relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC display version for fault signal  Mechanical data  size of engine control device width mm 45 height mm 150 depth mm 150 restew and snap-on mounting mounting position  mounting position  mounting position  required spacing with side-by-side mounting  • upwards mm 60 • at the side mm 15 • downwards mm 40 wire length maximum m 300 number of poles for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts for box terminal • using the front clamping point type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections for AWG  high stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing type of connectable conduct		%	10
relative positive tolerance of the control supply voltage at 8	control supply voltage 1 at DC rated value	V	24
DC display version for fault signal  Mochanical data  Size of engine control device width		%	-20
size of engine control device  width  height  mm  120  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  • for auxiliary and control circuit  • for fauxillary contacts for auxillary contacts  number of NC contacts for auxillary contacts  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectab		%	20
size of engine control device width	display version for fault signal		red
width height   mm   120  depth   mm   120  mm   150  screw and snap-on mounting mounting position   With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° ritatable, with vertical mounting surface +/-10° ritatable to the front and back mounting surface +/-10° ritatable, with vertical mounting surfa	Mechanical data		
height         mm         120           depth         mm         150           fastening method         screw and snap-on mounting           mounting position         With vertical mounting surface +/-10° rotatable, with vertical mountable of the first table to the front and back           connections         mm         60           mm do downwards         mm         60           wire larght maximum         m         30           solid of maximum         spring-loaded terminals         spring-loaded terminals           spring-loaded terminals         spring-loaded terminals         spring-loaded terminals           sumber of NC contacts for auxiliary contacts         1         vertical contacts or auxiliary contacts         1           type of connectable conductor cross-sections for MWG         vertical contacts or auxiliary contacts </th <th>size of engine control device</th> <th></th> <th>S00</th>	size of engine control device		S00
depth method screw and snap-on mounting formal mounting position With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° tiltable to the front and back required spacing with side-by-side mounting surface +/-10° tiltable to the front and back required spacing with side-by-side mounting surface +/-10° tiltable to the front and back required spacing with side-by-side mounting surface +/-10° tiltable to the front and back required spacing with side-by-side mounting surface +/-10° tiltable to the front and back required spacing with side-by-side mounting surface +/-10° tiltable to the front and back with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with and surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable to the front and back required spacing with vertical mounting surface +/-10° tiltable vertical mounting surface +/-10° tiltable	width	mm	45
fastening method  mounting position  With vertical mounting surface +/- 10° rotatable, with vertical mounting surface sylvariance tylvariance mounting surface sylvariance tylvariance tyl	height	mm	120
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mounting surface +/- 10° tiltable to the front and back  required spacing with side-by-side mounting	fastening method		screw and snap-on mounting
required spacing with side-by-side mounting  • upwards • at the side • downwards  mm	mounting position		
• upwards     • at the side     • downwards     wire length maximum     m     umber of poles for main current circuit  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control circuit     spring-loaded terminals  number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     1     number of NO contacts for auxiliary contacts     1     number of NO contacts for auxiliary contacts     0     type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     • using the front clamping point     type of connectable conductor cross-sections for main contacts     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for auxiliary contacts     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for auxiliary contacts     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for auxiliary contacts     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG     finely stranded with core end processing     type of connectable conductor cross-sections for AWG	required spacing with side-by-side mounting		mounting surface +/- 10° tiltable to the front and back
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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 number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 contacts for box terminal using the front clamping point • solid • finely stranded with core end processing 1 contacts for box terminal • using the front clamping point 1 cusing the front clamping point 2 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing 1 contacts • solid • finely stranded with core end processing			
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type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  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  • using the front clamping point  • solid  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • solid  • finely stranded with core end processing			
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  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  • solid  • solid (2x (1 2.5 mm²), 2x (2.5 6 mm²)  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  • solid  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG			
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type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  • solid  • solid  • solid  • finely stranded with core end processing  • solid	finely stranded with core end processing		
type of connectable conductor cross-sections for main contacts  • solid • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts • solid • solid • finely stranded with core end processing  2x (0.25 2.5 mm²)  type of connectable conductor cross-sections for AWG	type of connectable conductor cross-sections for AWG		
type of connectable conductor cross-sections for main contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • 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 for AWG	using the front clamping point		2x (16 10)
• finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts      • solid     • finely stranded with core end processing  type of connectable conductor cross-sections for AWG  1 2.5 mm²  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)	**		
• finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts     • solid     • finely stranded with core end processing  type of connectable conductor cross-sections for AWG  1 2.5 mm²  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)			1 4 mm²
type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG			
contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG			
• finely stranded with core end processing  2x (0.25 1.5 mm²)  type of connectable conductor cross-sections for AWG	•••		
type of connectable conductor cross-sections for AWG	• solid		2x (0.25 2.5 mm²)
	finely stranded with core end processing		2x (0.25 1.5 mm²)

• for main contacts		16 12
for auxiliary contacts		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		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		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	1
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	3
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

**General Product Approval** 







Confirmation





**General Product Ap**proval

EMV

**Test Certificates** 

other





<u>KC</u>

Type Test Certificates/Test Report

Confirmation

Miscellaneous

**Environment** 

**Environmental Confirmations** 

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

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=3RW3014-2BB04

Cax online generator

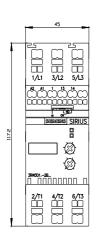
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW3014-2BB04}$ 

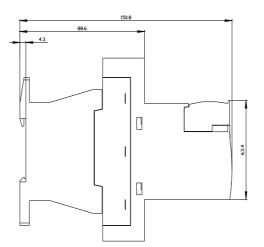
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

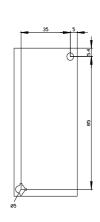
https://support.industry.siemens.com/cs/ww/en/ps/3RW3014-2BB04

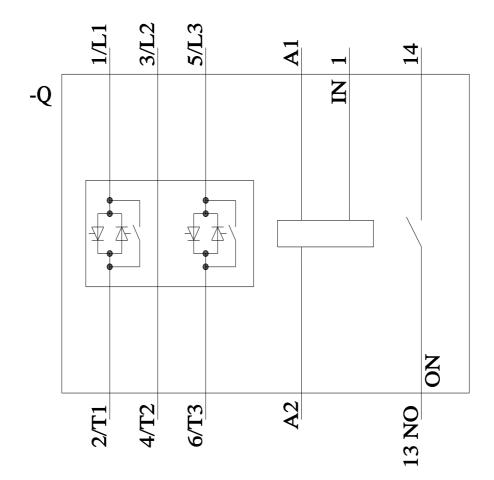
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3014-2BB04&lang=en









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