## **SIEMENS**

Data sheet 3RW3014-2BB14



SIRIUS soft starter S00 6.5 A, 3 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

product brand name product feature integrated bypass contact system it hyristors product function intrinsic device protection intrinsic device	General technical data		
integrated bypass contact system thyristors  product function intrinsic device protection who overload protection evaluation of thermistor motor protection No evaluation of thermistor motor protection No external reset adjustable current limitation No inside-delta circuit No product component motor brake output nisulation voltage rated value degree of pollution adjustable current insulation voltage rated value degree of pollution feference code according to EN 61346-2  reference code according to EN 61346-2  reference code according to EN 61346-2  grefence code according to EN 67346-2  greference code according to EN 6736-0  power Electronics  product designation operational current at 40 °C rated value at 60 °C rated value at 400 °C at standard circuit at 40 °C rated value at 400 °C at standard circuit at 40 °C rated value at 400 °C at standard circuit at 50 °C rated value at 400 °C at standard circuit at 50 °C rated value relative negative tolerance of the operating frequency relative negative tolerance of the operating frequency relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating ovoltage at standard circuit at 50 °C relative negative tolerance of the operating ovoltage at % -15	product brand name		SIRIUS
e thyristors  product function  e intrinsic device protection  e motor overload protection  e evaluation of thermistor motor protection  e external reset  a dijustable current limitation  inside-delta circuit  product component motor brake output  insulation voltage rated value  degree of pollution  reference code according to EN 61346-2  reference code according to DIN 40719 extended according to EC 204-2 according to EN 61346-2  reference code according to EN 61346-2  reference code according to DIN 40719 extended according to EC 204-2 according to EN 61346-2  reference code according to EN 61346-2  reference code according to EN 61346-2  Rower Electronics  product designation  operational current  at 40 °C rated value  at 60 °C rated value  at 8230 V  at standard circuit at 40 °C rated value  at 400 °C  at standard circuit at 40 °C rated value  yielded mechanical performance [hp] for 3-phase motors  at 200/208 V at standard circuit at 50 °C rated value  poperating frequency rated value  relative negative tolerance of the operating frequency  relative negative tolerance of the operating frequency  relative negative tolerance of the operating frequency  relative negative tolerance of the operating voltage at  y = 15	product feature		
product function  intrinsic device protection  motor overload protection  evaluation of thermistor motor protection  inside-delta circuit  product component motor brake output  insulation voltage rated value  degree of pollution  reference code according to EN 61346-2  reference code according to EN 61346-2  reference code according to IN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  Power Electronics  Power Electronics  product designation  operational current  eval 40 °C rated value  eval 60 °C rated value  e	<ul> <li>integrated bypass contact system</li> </ul>		Yes
intrinsic device protection  motor overload protection  e valuation of thermistor motor protection  e external reset  adjustable current limitation  inside-delta circuit  product component motor brake output  insulation voltage rated value  degree of pollution  reference code according to EN 61346-2  reference code according to EN 61346-2  reference code according to EIC 750  Power Electronics  product designation  operational current  at 40 °C rated value  at 60 °C rated value  by elded mechanical performance for 3-phase motors  at 230 V  at standard circuit at 40 °C rated value  at 400 V  at standard circuit at 40 °C rated value  at 400 V  at standard circuit at 40 °C rated value  by elded mechanical performance [hp] for 3-phase AC motor  at 200/208 V at standard circuit at 50 °C rated value  relative negative tolerance of the operating frequency  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at	• thyristors		Yes
motor overload protection     evaluation of thermistor motor protection     external reset     adjustable current limitation     inside-delta circuit     No     insulation voltage rated value     product component motor brake output     insulation voltage rated value     degree of pollution     reference code according to EN 61346-2     reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation     operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     at 60 °C rated value     at 230 V     at standard circuit at 40 °C rated value     at 400 V     at standard circuit at 40 °C rated value     at 400 V     at standard circuit at 40 °C rated value     poperating frequency rated value     poperating frequency rated value     poperating frequency rated value     poperating frequency rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     relative negative tolerance of the operating frequency     relative negative tolerance of the operating voltage at     relative negative tolerance of the operating voltage at     set research invited in No     No     No     No     No     No     No     No     No     Adjustable view in view	product function		
evaluation of thermistor motor protection     external reset     adjustable current limitation     inside-delta circuit     No     product component motor brake output     insulation voltage rated value     degree of pollution     reference code according to EN 61346-2     reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation     operational current	<ul> <li>intrinsic device protection</li> </ul>		No
external reset     adjustable current limitation     inside-delta circuit     product component motor brake output     insulation voltage rated value     degree of pollution     reference code according to EN 61346-2     reference code	<ul> <li>motor overload protection</li> </ul>		No
adjustable current limitation inside-delta circuit  No inside-delta circuit  No insulation voltage rated value  degree of pollution  reference code according to EN 61346-2  reference code according to EN 61346-2  reference code according to DIN 40719 extended according to EC 204-2 according to IEC 750  Power Electronics  product designation  operational current  at 40 °C rated value  A 6.5  at 50 °C rated value  A 6.5  yielded mechanical performance for 3-phase motors  at 430 V  at 430 V  at 430 V  at 440 V  at standard circuit at 40 °C rated value  N  at 400 V  at standard circuit at 40 °C rated value  A 5.5  yielded mechanical performance for 3-phase motors  at 400 V  at standard circuit at 50 °C rated value  N  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  N  relative negative tolerance of the operating frequency  N  relative negative tolerance of the operating requency  N  relative negative tolerance of the operating voltage at	<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
inside-delta circuit  product component motor brake output  insulation voltage rated value  V 600  degree of pollution  reference code according to EN 61346-2  reference code according to EN 61346-2  Q  reference code according to IBN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation  operational current  • at 40 °C rated value  • at 50 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value  • at 40 °V  — at standard circuit at 40 °C rated value  • at 40 °V  — at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 50 °C rated value  vielded mechanical performance [np] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  pyielded mechanical performance [np] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at  v 600  Soft starter  A 6.5  6  6  6  7  8  7  8  7  8  7  8  7  8  7  8  7  8  7  8  8	<ul> <li>external reset</li> </ul>		No
product component motor brake output insulation voltage rated value  degree of pollution reference code according to EN 61346-2 reference code according to EN 61346-2 reference code according to EN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 80 °C rated value • a	<ul> <li>adjustable current limitation</li> </ul>		No
insulation voltage rated value  degree of pollution  reference code according to EN 61346-2  reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation  operational current  • at 40 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value  eat 400 V  — at standard circuit at 50 °C rated value  vielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  poperating frequency rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating requency  relative negative tolerance of the operating voltage at  v 200 480  relative negative tolerance of the operating voltage at  v 200 480  relative negative tolerance of the operating voltage at  v 200 480  relative negative tolerance of the operating voltage at  v 200 480	inside-delta circuit		No
degree of pollution  reference code according to EN 61346-2  reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation  operational current  • at 40 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value  • at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value  • at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at  g Q  Q  Q  Q  D  Q  D  Q  D  D  D  D  D  D	product component motor brake output		No
reference code according to EN 61346-2 reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value A 5.5  yielded mechanical performance for 3-phase motors • at 230 V — at standard circuit at 40 °C rated value • at 400 V — at standard circuit at 40 °C rated value vielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value operating frequency rated value relative negative tolerance of the operating frequency relative negative tolerance of the operating frequency relative negative tolerance of the operating voltage at reference Q  G  G  G  G  G  C  G  Soft starter  A 6.5   A 5.5  V  1.5   A 6.5  A 1.5  A 6.5  A 5.5  V  I.5  A 6.5	insulation voltage rated value	V	600
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750  Power Electronics  product designation  operational current  • at 40 °C rated value  • at 50 °C rated value  • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value  • at 400 V — at standard circuit at 40 °C rated value  • at 400 V — at standard circuit at 50 °C rated value  • at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  operating voltage at standard circuit rated value  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at	degree of pollution		3, acc. to IEC 60947-4-2
to IEC 204-2 according to IEC 750  Power Electronics  product designation  operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value • at 400 V  — at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value  vielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  prelative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  relative negative tolerance of the operating voltage at  -15	reference code according to EN 61346-2		Q
product designation  operational current  • at 40 °C rated value  • at 50 °C rated value  • at 60 °C rated value  • at 60 °C rated value  • at 230 V  — at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value  vielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  V 200 480  relative negative tolerance of the operating voltage at  Soft starter  A 6.5  A 6.6   A 5.5  WW 1.5  • 4 230 V  • 4 3  • 4 400 V  • 4 400 V  • 4 50 60  relative negative tolerance of the operating frequency  % 10  operating voltage at standard circuit rated value  V 200 480  relative negative tolerance of the operating voltage at  % -15			G
operational current  • at 40 °C rated value  • at 50 °C rated value  • at 60 °C rated value  A 6.5  yielded mechanical performance for 3-phase motors  • at 230 V  — at standard circuit at 40 °C rated value  • at 400 V — at standard circuit at 40 °C rated value  • at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at  relative negative tolerance of the operating voltage at  -15	Power Electronics		
at 40 °C rated value at 50 °C rated value at 60 °C rated value A 5.5  yielded mechanical performance for 3-phase motors at 230 V  — at standard circuit at 40 °C rated value A tat 400 V  — at standard circuit at 40 °C rated value A tat 400 V  — at standard circuit at 40 °C rated value A tat 400 V  — at standard circuit at 50 °C rated value A 5.5  kW 1.5  A 5.5  It was a tat 400 V  A 1.5  A 6.6  A 6.6  A 6.7  A 6.7  A 6.7  A 6.8  A 6.8  A 6.9  A 6.8  A 6.9  A 6.9  A 6.5  A 6.6  A 6.5  A 6.6  A 6.5  A 6.6  A 6.5  A 6	product designation		Soft starter
at 50 °C rated value  at 60 °C rated value  A 5.5  yielded mechanical performance for 3-phase motors  at 230 V  — at standard circuit at 40 °C rated value  at 400 V — at standard circuit at 40 °C rated value  www 3  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  operating voltage at standard circuit rated value  relative negative tolerance of the operating voltage at  at 50 °C rated value  Hz 50 60  relative negative tolerance of the operating frequency  v 200 480  relative negative tolerance of the operating voltage at  -15	operational current		
at 60 °C rated value  A 5.5  yielded mechanical performance for 3-phase motors  at 230 V  — at standard circuit at 40 °C rated value  at 400 V  — at standard circuit at 40 °C rated value  www 3  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  perative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  V 200 480  relative negative tolerance of the operating voltage at  -15	• at 40 °C rated value	Α	6.5
yielded mechanical performance for 3-phase motors  • at 230 V  — at standard circuit at 40 °C rated value  • at 400 V  — at standard circuit at 40 °C rated value    WW   3	• at 50 °C rated value	Α	6
at 230 V — at standard circuit at 40 °C rated value  at 400 V — at standard circuit at 40 °C rated value  www 3  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  V 200 480  relative negative tolerance of the operating voltage at  www 1.5  kW 3  yielded mechanical performance [hp] for 3-phase AC motor hp 1  at 200/208 V at standard circuit at 50 °C rated value  by 1  considering voltage at standard circuit rated value  v 200 480  relative negative tolerance of the operating voltage at  w -15	• at 60 °C rated value	Α	5.5
— at standard circuit at 40 °C rated value  • 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  operating frequency rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  V 200 480  relative negative tolerance of the operating voltage at  % -15	yielded mechanical performance for 3-phase motors		
● 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 % -15	• at 230 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  operating frequency rated value Hz 50 60  relative negative tolerance of the operating frequency % -10  relative positive tolerance of the operating frequency W 10  operating voltage at standard circuit rated value V 200 480  relative negative tolerance of the operating voltage at % -15	<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	1.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  relative negative tolerance of the operating voltage at  'V 200 480  relative negative tolerance of the operating voltage at  '-15	• at 400 V		
at 200/208 V at standard circuit at 50 °C rated value  operating frequency rated value  relative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  operating voltage at standard circuit rated value  relative negative tolerance of the operating voltage at  'V 200 480  relative negative tolerance of the operating voltage at  '-15	<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	3
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 % -15		hp	1
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 % -15	operating frequency rated value	Hz	50 60
operating voltage at standard circuit rated value V 200 480 relative negative tolerance of the operating voltage at % -15	relative negative tolerance of the operating frequency	%	-10
relative negative tolerance of the operating voltage at % -15	relative positive tolerance of the operating frequency	%	10
	operating voltage at standard circuit rated value	V	200 480
		%	-15
relative positive tolerance of the operating voltage at % 10 standard circuit		%	10
minimum load [%] % 10	minimum load [%]	%	10
continuous operating current [% of le] at 40 °C % 115	continuous operating current [% of le] at 40 °C	%	115

power loss [W] at operational current at 40 °C during	W	0.5
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 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	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red
Mechanical data		
size of engine control device		S00
width	mm	45
height	mm	120
depth	mm	150
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	15
• 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		spring-loaded 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 2.5 mm²), 2x (2.5 6 mm²)
finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		
using the front clamping point		2x (16 10)
type of connectable conductor cross-sections for main contacts		
• solid		1 4 mm²
finely stranded with core end processing		1 2.5 mm²
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 for AWG cables		
• 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
Certificates/ approvals		

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**General Product Approval** 

EMC



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

other





Type Test Certificates/Test Report Miscellaneous Confirmation

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







