# **SIEMENS**

Data sheet 3RW4046-1BB15



SIRIUS soft starter S3 80 A, 55 kW/500 V, 40 °C 400-600 V AC, 110-230 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	Α	80
at 50 °C rated value	Α	73
at 60 °C rated value	Α	66
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	45
● at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	55
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	400 600
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	Α	43
continuous operating current [% of le] at 40 °C	%	115

operation typical Control control supply voltage   ACIDC Control supply voltage frequency / rated value	power loss [W] at operational current at 40 °C during	W	12
type of voltage of the control supply voltage control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply voltage frequency frequenc			
control supply voltage frequency 1 rated value  Control supply voltage frequency 2 rated value  Fig. 10  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 at AC at 50 Hz  Control supply voltage 1 at AC at 50 Hz  V 150230  Control supply voltage 1 at AC at 50 Hz  V 150230  Control supply voltage 1 at AC at 50 Hz  V 150230  Felative positive tolerance of the control supply voltage at AC at 50 Hz  V 150230  Felative positive tolerance of the control supply voltage at AC at 50 Hz  V 150230  Felative positive tolerance of the control supply voltage at AC at 50 Hz  Felative positive tolerance of the control supply voltage at AC at 50 Hz  Felative positive tolerance of the control supply voltage at AC at 50 Hz  Control supply voltage 1 at DC  Felative positive tolerance of the control supply voltage at AC at 60 Hz  Control supply voltage 1 at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive tolerance of the control supply voltage at DC  Felative positive toleranc			
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trequency Control supply voltage 1 at AC at 59 Hz Control supply voltage 1 at AC at 59 Hz V 110 230 Control supply voltage 1 at AC at 69 Hz V 110 230 V 210		%	-10
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AC at 80 Hz.  control supply voltage 1 at DC  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  display version for fault signal  Machanical data  size of engine control device  width mm 70  height mm 170  depth mm 170  depth mm 190  fastening method mcunting position  with additional fan: With vertical mounting surface +/-90' rotatable, with vertical mounting surface +/-90' rota	AC at 60 Hz		
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DC		%	-15
size of angine control device  size of angine control device  width  height  mm  170  depth  mm  170  fastening method  mounting position  With additional fan: With vertical mounting surface +/-90' rotatable, with vertical mounting surface +/-22.5' tiltable to the front and back Without additional fan: With vertical mounting surface +/-10' to rotatable, with vertical mounting surface +/-10' to rotatable, with vertical mounting surface +/-10' to at the side  upwards  at the side  at the side  mm  40  wire length maximum  mumber of poles for main current circuit  for naxillary and control circuit  for anxillary and control circuit  screw-type terminals  100  number of NC contacts for auxillary contacts  11  120  130  24  25 35 mm²  4 70 mm²  150  150  150  150  150  150  150  15		%	10
size of engine control device width mm 70 height mm 170 depth mm 190 fastening method screw and snap-on mounting mounting position  With additional fan: With vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-22.5" tiltable to the front and back Without additional fan: With vertical mounting surface +/-10" rotatable, with vertical mounting surface +/-22.5" tiltable to the front and back Without additional fan: With vertical mounting surface +/-10" to rotatable, with vertical mounting surface +/-10" t  required spacing with side-by-side mounting  • upwards  • at the side • downwards  mm 60 • at the side • downwards  mm 40  wire length maximum m 300 number of poles for main current circuit • 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 NC contacts for auxiliary contacts  1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded			red
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required spacing with side-by-side mounting  • upwards • at the side • at the side • downwards • imm • formain and back Without additional fairs. With vertical mounting surface +/- 10° t term and back without additional fairs. With vertical mounting surface +/- 10° t  • at the side • at the side • downwards • mm 40  wire length maximum number of poles for main current circuit  2 connections/Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals  number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded	fastening method		
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downwards	• upwards	mm	60
wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection	• at the side	mm	30
number of poles for main current circuit  Connections/ Terminals  type of electrical connection  of or main current circuit  of auxiliary and control circuit  of auxiliary and control circuit  of auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  of inely stranded with core end processing  of inely stranded conductor cross-sections for main contacts for box terminal using both clamping points  of inely stranded with core end processing	• downwards	mm	40
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  screw-type terminals  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • siranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • siranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • solid  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  • solid  2x (2.5 16 mm²)  2x (2.5 16 mm²)  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  • solid  2x (2.5 16 mm²)  2x (2.5 16 mm²)  • stranded  2x (2.5 35 mm²)  • stranded	wire length maximum	m	300
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  1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  • stranded  • solid  • stranded with core end processing  • stranded  • solid  • s	number of poles for main current circuit		3
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• 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     1     type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid     • stranded     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • finely stranded with core end processing     • stranded     10 70 mm²     type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     • solid     • stranded     2x (2.5 16 mm²)     • stranded     2x (2.5 16 mm²)     • stranded     2x (2.5 35 mm²)     • stranded     2x (2.5 35 mm²)     • stranded     3x (2.5 35 mm²)     • stranded			
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  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • finely stranded with core end processing  • stranded  • stranded  • stranded  • stranded  • stranded  • solid			
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  • finely stranded with core end processing  • stranded  • solid  • solid  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • stranded  • solid  • finely stranded with core end processing  • stranded  • solid  • solid  • solid  • solid  • solid  • solid  • stranded  • stranded  • stranded  • stranded  • stranded  • stranded  • solid	•		
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  • finely stranded with core end processing  • stranded  • solid  2x (2.5 16 mm²)  2.5 35 mm²  4 70 mm²  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • finely stranded with core end processing  • stranded  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 50 mm²  10 70 mm²  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 35 mm²)  5x (2.5 35 mm²)  5x (2.5 35 mm²)  5x (2.5 35 mm²)	<u> </u>		
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contacts for box terminal using the front clamping point  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid  solid  2x (2.5 16 mm²)  2.5 50 mm²  10 70 mm²  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (2.5 35 mm²)  stranded			1
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>2x (2.5 16 mm²)</li> <li>x (2.5 16 mm²)</li> <li>x (2.5 16 mm²)</li> <li>x (2.5 35 mm²)</li> <li>stranded</li> <li>stranded</li> <li>x (2.5 35 mm²)</li> <li>x (2.5 35 mm²)</li> <li>x (2.5 35 mm²)</li> <li>x (2.5 35 mm²)</li> </ul>	contacts for box terminal using the front clamping point		
● stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  ● solid  ● solid  ● finely stranded with core end processing  ● stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  ● solid  ● stranded  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (2.5 35 mm²)  2x (10 50 mm²)			
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  • solid  2x (2.5 16 mm²)  2.5 50 mm²  10 70 mm²   2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (2.5 35 mm²)  • stranded			
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>2x (2.5 16 mm²)</li> <li>2x (2.5 35 mm²)</li> <li>stranded</li> <li>2x (10 50 mm²)</li> </ul>	type of connectable conductor cross-sections for main		
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>2x (2.5 16 mm²)</li> <li>2x (2.5 35 mm²)</li> <li>2x (10 50 mm²)</li> </ul>			2x (2.5 16 mm²)
<ul> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>2x (2.5 16 mm²)</li> <li>2x (2.5 35 mm²)</li> <li>2x (10 50 mm²)</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • finely stranded with core end processing  • stranded  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (10 50 mm²)			
<ul> <li>• finely stranded with core end processing</li> <li>• stranded</li> <li>2x (2.5 35 mm²)</li> <li>2x (10 50 mm²)</li> </ul>	type of connectable conductor cross-sections for main		
• stranded 2x (10 50 mm²)	• solid		2x (2.5 16 mm²)
	<ul> <li>finely stranded with core end processing</li> </ul>		
type of connectable conductor cross-sections for AWG			
	type of connectable conductor cross-sections for AWG		

	_	
cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		2x (10 1/0)
<ul> <li>using the front clamping point</li> </ul>		2x (10 1/0)
<ul> <li>using both clamping points</li> </ul>		10 2/0
type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		2 x (10 50 mm²)
• stranded		2x (10 70 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
for main contacts		2x (7 1/0)
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
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)
<ul> <li>during storage according to IEC 60721</li> </ul>		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		

General Product Approval

EMC





Confirmation







For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

other

Railway

Confirmation





Confirmation

Vibration and Shock

yielded mechanical performance [hp] for 3-phase AC motor

• at 460/480 V

— at standard circuit at 50 °C rated value

• at 575/600 V

— at standard circuit at 50 °C rated value

hp

60

contact rating of auxiliary contacts according to UL

B300 / R300

#### **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

## Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## 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=3RW4046-1BB15

#### Cax online generator

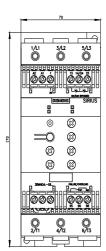
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4046-1BB15

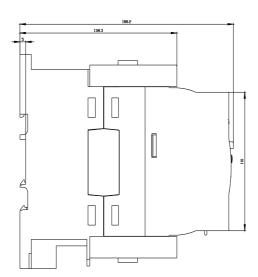
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4046-1BB15

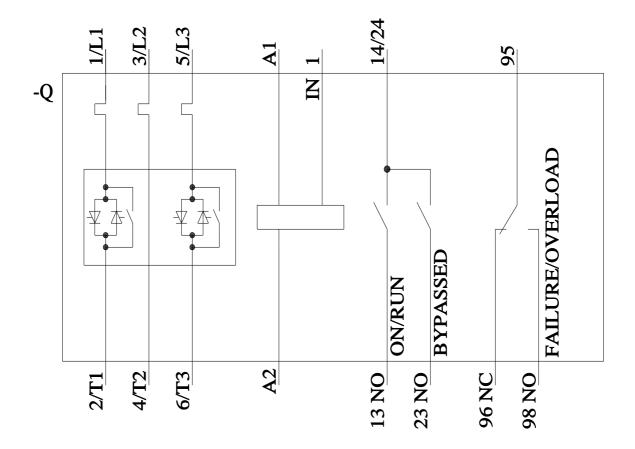
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4046-1BB15&lang=en









last modified: 8/24/2023 🖸