SIEMENS

Data sheet 3RW5056-6AB14

SIRIUS



SIRIUS soft starter 200-480 V 171 A, 110-250 V AC Screw terminals Analog output

Figure similar

product brand name

product brand name	011100
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS01
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of circuit breaker usable at 500 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 230-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 335; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1056</u>
 of line contactor usable up to 690 V 	3RT1064
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
 UL approval 	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2

trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category acc. to IEC 60947-4-2	AC-53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	23.09.2019
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software parameterizable via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
• FROFieliergy	module
 voltage ramp 	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
• at 40 °C rated value	171 A
at 50 °C rated value	153 A
at 60 °C rated value	141 A
operating voltage	
• rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
at 230 V at 40 °C rated value	45 kW
at 400 V at 40 °C rated value	90 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
adjustable motor current	
at rotary coding switch on switch position 1	81 A
at rotary coding switch on switch position? at rotary coding switch on switch position?	87 A
at rotary coding switch on switch position 3 at rotary coding switch on switch position 3	93 A
- at rotary county switch on switch position s	JOA

 at rotary coding switch on switch position 4 	99 A
 at rotary coding switch on switch position 5 	105 A
 at rotary coding switch on switch position 6 	111 A
 at rotary coding switch on switch position 7 	117 A
at rotary coding switch on switch position 8	123 A
at rotary coding switch on switch position 9	129 A
,	
at rotary coding switch on switch position 10	135 A
 at rotary coding switch on switch position 11 	141 A
 at rotary coding switch on switch position 12 	147 A
 at rotary coding switch on switch position 13 	153 A
 at rotary coding switch on switch position 14 	159 A
 at rotary coding switch on switch position 15 	165 A
 at rotary coding switch on switch position 16 	171 A
• minimum	81 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	29 W
at 50 °C after startup	23 W
at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	ZO VV
at 40 °C during startup	1.751 W
5 1	1 751 W
• at 50 °C during startup	1 478 W
at 60 °C during startup	1 308 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz	110 250 V
● at 60 Hz	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	10 %
voltage at AC at 50 Hz	10 /0
relative negative tolerance of the control supply	-15 %
voltage at AC at 60 Hz	40.07
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply	10 %
voltage frequency	
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	80 mA
locked-rotor current at close of bypass contact maximum	2.5 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
· O ···· - · · · · · · · · · · · · · · ·	
number of analog outputs	1
number of analog outputs	1
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	1 3 A

• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	198 mm
width	120 mm
depth	249 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	5.2 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	20 11111
for main contacts for box terminal using the front	16 120 mm²
 clamping point solid for main contacts for box terminal using the front clamping point finely stranded with core end 	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end 	10 120 mm²
 for main contacts for box terminal using the front clamping point stranded 	16 70 mm²
at AWG cables for main contacts for box terminal using the front clamping point	6 250 kcmil
for main contacts for box terminal using the back clamping point solid	16 120 mm²
 at AWG cables for main contacts for box terminal using the back clamping point 	6 250 kcmil
 for main contacts for box terminal using both clamping points solid 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points stranded 	max. 2x 120 mm²
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	16 120 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	10 120 mm²
for main contacts for box terminal using the back clamping point stranded	16 120 mm²
type of connectable conductor cross-sections	
 at AWG cables for main current circuit solid 	4 250 kcmil
 for DIN cable lug for main contacts stranded 	16 95 mm²
for DIN cable lug for main contacts finely stranded	25 120 mm²
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)

Set the digital inputs at AC maximum 1 stylenting torque 1 or main contacts with screw-type terminals 1 or auxiliary and control contacts with screw-type terminals 1 or main contacts with screw-type terminals 1 or auxiliary and control contacts with screw-type terminals 1 or auxiliary and control contacts with screw-type terminals 1 or main contacts with screw-type terminals 1 or auxiliary and control contacts with screw-type terminals 2 or main contacts with screw-type terminals 3 or main contacts with screw-type terminals 4 or main contacts with screw-type terminals 5 or 000 m; Dersting as of 1000 m, see manual 5 or 00 m; Dersting as of 1000 m, see manual 5 or 00 m; Dersting as of 1000 m, see manual 5 or 00 m;		
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- usable for Standard Faults up to 575/600 V according to UL. - usable for High Faults up to 575/600 V according to UL. Operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX Certificate of suitability • ATEX • IECEx PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq In to kate and the sum of t		Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
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operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value Too hp Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Touch protection on the front acc. to IEC 60529 Testing to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFDD with high demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y		
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at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover finger-safe, for vertical contact from the front with cover ATEX certificate of suitability ATEX IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	operating power [hp] for 3-phase motors	
at 460/480 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability • ATEX • IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	 at 200/208 V at 50 °C rated value 	50 hp
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certificate of suitability • ATEX • IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
● ATEX ● IECEx hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	ATEX	
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hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 0.000009 1/h SIL1	• ATEX	Yes
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	• IECEx	Yes
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	•	0
PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y		0.09
to ATEX T1 value for proof test interval or service life acc. to 3 y	PFHD with high demand rate acc. to EN 62061 relating	0.000009 1/h
		SIL1
		3 y

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report





Confirmation

Further information

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=3RW5056-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-6AB14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

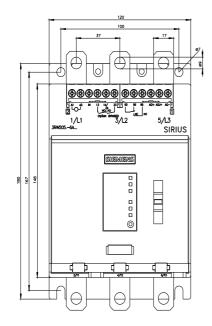
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14/char

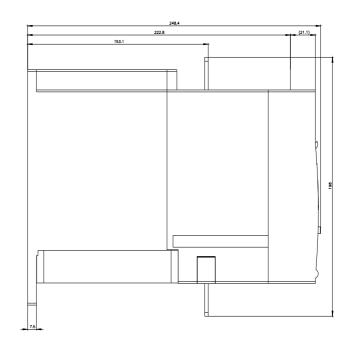
Characteristic: Installation altitude

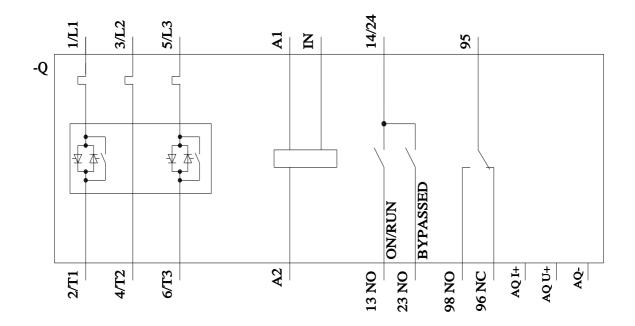
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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