SIEMENS

Data sheet 3RW5055-6AB14

SIRIUS

SIRIUS soft starter 200-480 V 143 A, 110-250 V AC Screw terminals Analog output



Figure similar

product brand name

product brand name	SIRIUS
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 227-0: Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 334 -0B; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1055</u>
 of line contactor usable up to 690 V 	<u>3RT1055</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
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 %
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

a for control airquit	100 mg
• 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 protective separation	
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 according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
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 configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication 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	143 A
at 50 °C rated value	128 A
at 60 °C rated value	118 A
operating voltage	
• rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage	10 %
	10 /0
operating power for 3-phase motors • at 230 V at 40 °C rated value	37 kW
	75 kW
at 400 V at 40 °C rated value Operating frequency 4 rated value	
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	00.4
at rotary coding switch on switch position 1	68 A
at rotary coding switch on switch position 2	73 A
 at rotary coding switch on switch position 3 	78 A
 at rotary coding switch on switch position 4 	83 A
 at rotary coding switch on switch position 5 	88 A
 at rotary coding switch on switch position 6 	93 A
 at rotary coding switch on switch position 7 	
	98 A
 at rotary coding switch on switch position 8 	98 A 103 A

 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
at rotary coding switch on switch position 16	143 A
• minimum	68 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	23 W
• at 50 °C after startup	19 W
·	16 W
• at 60 °C after startup	10 VV
power loss [W] at AC at current limitation 350 %	4 226 W
• at 40 °C during startup	1 336 W
• at 50 °C during startup	1 134 W
at 60 °C during startup	1 007 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 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 frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	80 mA
inrush current by closing the bypass contacts 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)
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	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	

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• for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for for control circuit solid • for DIN cable lug for main contacts stranded • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for for control circuit finely stranded with core end processing • for main contacts with screw-type terminals		6 250 kcmil
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opinits stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded with core end processing • for main contacts for box terminal using the back clamping point stranded with core end processing • for awG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for main contacts with screw-type terminals • for awG cables for control circuit solid • for awG cables for control circuit solid • for awG cables for control circuit solid • for main contacts with screw-type terminals • for awG cables for control circuit solid • for awG cables for control circuit solid • for main contacts with screw-type terminals • for awG cables for control circuit solid • for main contacts with screw-type terminals • for awG cables for control circuit solid • for main contacts with screw-type terminals • for awG cables for control circuit solid • for awG cables for control circuit solid • f		max. 1x 95 mm², 1x 120 mm²
clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded clamping point stranded stranded through the processing of the for connectable conductor cross-sections • for AWG cables for main current circuit solid or for DIN cable lug for main contacts stranded the for DIN cable lug for main contacts stranded through the for control circuit solid to control ci		max. 2x 120 mm ²
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• for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for AWG cables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **Touth in the properties of th		
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• for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid vire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type •	for DIN cable lug for main contacts finely stranded	25 120 mm²
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wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 1 000 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals •		
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at the digital inputs at AC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage and transport environmental category during operation according to IEC 60721 10 14 N·m 0.8 1.2 N·m 89 124 lbf-in 7 10.3 lbf-in 5 000 m; derating as of 1000 m, see Manual 40 °C; Please observe derating at temperatures of 40 °C or above 40 +80 °C environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		000
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terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	• •	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 5 000 m; derating as of 1000 m, see Manual -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C environmental category • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
ambient temperature	Ambient conditions	
 during operation during storage and transport +40 °C; Please observe derating at temperatures of 40 °C or above +40 +80 °C environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
 during storage and transport -40 +80 °C environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 	ambient temperature	
environmental category • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
• during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	during storage and transport	-40 +80 °C
	environmental category	
(sand must not get into the devices), sivio	 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

• during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A **EMC** emitted interference **Communication/ Protocol** communication module is supported PROFINET standard Yes EtherNet/IP Yes • Modbus RTU Yes Modbus TCP Yes • PROFIBUS Yes **UL/CSA** ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according Siemens type: 3VA5225, max. 250 A; Iq = 10 kA to UL of the fuse Type: Class RK5 / K5, max. 350 A; Iq = 10 kA - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to Type: Class J, max. 350 A; Iq = 100 kA UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 40 hp • at 220/230 V at 50 °C rated value 40 hp • at 460/480 V at 50 °C rated value 100 hp Safety related data protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover certificate of suitability ATEX Yes IECEx Yes UKEX Yes hardware fault tolerance according to IEC 61508 relating to 0 **ATEX** PFDavg with low demand rate according to IEC 61508 0.09 relating to ATEX PFHD with high demand rate according to EN 62061 relating 9E-6 1/h to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1 to ATEX T1 value for proof test interval or service life according to 3 a IEC 61508 relating to ATEX For use in hazard-

General Product Approval

ous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate



Type Test Certificates/Test Report



Marine / Shipping

other





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).

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=3RW5055-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5055-6AB14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

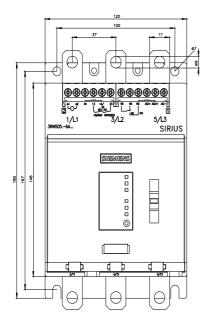
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB14/char

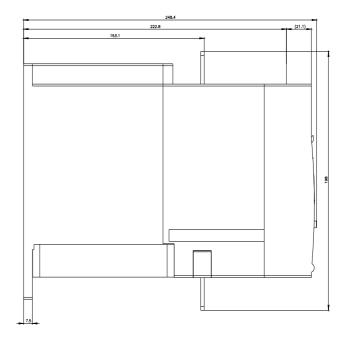
Characteristic: Installation altitude

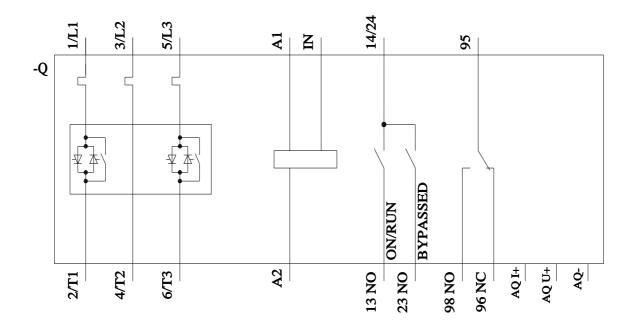
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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