SIEMENS

Data sheet

3RW5074-6AB14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC Screw terminals Analog output

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product brand name SIRUS product category Hybrid switching devices product disignation Soft starter product disignation SRW50 manufacturer's article number SRW590-OHS01 • of standard HM module usable SRW590-OHS01 • of onmunication module PROFINET standard usable SRW5980-OE500 • of communication module PROFINET standard usable SRW5980-OC200 • of communication module Modbus TCP usable SRW5980-OC200 • of communication module Ethernet/IP SRW5980-OC200 • of communication module Ethernet/IP SRW5980-OC200 • of circuit breaker usable at 600 V SVA2440-7MN32-0AA0: Type of assignment 1, lo = 65 kA • of dircuit breaker usable at 600 V SVA2440-7MN32-0AA0: Type of coordination 1, lq = 65 kA • of thild grape R, lake link for semiconductor protection SRE13332: Type of coordination 2, lg = 65 kA • of thild protection usable up to 690 V SRE13332: Type of coordination 2, lg = 65 kA • of line contactor usable up to 480 V SRE13332: Type of coordination 2, lg = 65 kA • of line contactor usable up to 480 V SRE1335: Type of coordination 2, lg = 65 kA • of line contactor usable up to 590 V SRE1335: Type of coordi		
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• of standard HMI module usable SRW5980_0HS01 • of high feature HMI module usable SRW5980_0CED0 • of communication module PROFINET standard usable SRW5980_0CED0 • of communication module PROFINES usable SRW5980_0CED0 • of communication module Modbus RTU usable SRW5980_0CED0 • of communication module Ethernet/IP SRW5980_0CED0 • of circuit breaker usable at 500 V SRV5980_0CED0 • of circuit breaker usable at 500 V SRV5980_0CED0 • of the gG fuse usable up to 690 V SRV5980_0CED0 • of the gG fuse usable up to 690 V SRV5980_0CED0 • of the gG fuse usable up to 690 V SRV5980_0CED0 • of the gG fuse usable up to 690 V SRV5980_0CED0 • of the gG fuse usable up to 690 V SRV5980_0CED0 • of the gG fuse usable up to 480 V SREI 333-2: Type of coordination 1, Iq = 65 kA usable up to 690 V SREI 333-2: Type of coordination 2, Iq = 65 kA • of line contactor usable up to 480 V SREI 333-2: Type of coordination 2, Iq = 65 kA • of line contactor usable up to 690 V SREI 107-5 Ceneral technical data 50 %; non-adjustable startup ramp time of soft starter 0 20 s<	product type designation	3RW50
• of high feature HMI module usable 3RW5880-01HED0 • of communication module PROFINET standard usable 3RW5880-00CP00 • of communication module Modus TCP usable 3RW5880-00CP00 • of communication module Modus TCP usable 3RW5880-00CP00 • of communication module Modus TCP usable 3RW5880-00CP00 • of circuit breaker usable at 400 V 3RV5880-00CP00 • of circuit breaker usable at 400 V 3RV5880-00CP00 • of circuit breaker usable at 500 V 3RV5880-00CP00 • of circuit breaker usable at 500 V 3RV5880-00CP00 • of dircuit breaker usable at 500 V 3RV5880-00CP00 • of till range R fuse link for semiconductor protection SNE3 332-2 Type of coordination 1, lq = 65 kA • of till contactor usable up to 690 V 2x3NA3865-6; Type of coordination 2, lq = 65 kA • of black-up R fuse link for semiconductor protection 3NE3 335: Type of coordination 2, lq = 65 kA • of line contactor usable up to 690 V 3RTI075 • of line contactor usable up to 690 V 3RTI075 • full ine contactor usable up to 690 V 3RTI075 • of line contactor usable up to 690 V 3RTI075 • of line contactor usable up to 690 V 30 100 %	manufacturer's article number	
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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 2	 is supported HMI-High Feature 	Yes
trip class CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2 buffering time in the event of power failure	product feature integrated bypass contact system	Yes
buffering time in the event of power failure	number of controlled phases	2
	trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
• for main current circuit 100 ms	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	1 600 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	245 A
• at 40 °C rated value	315 A 279 A
 at 50 °C rated value at 60 °C rated value 	279 A 255 A
operating voltage	200 A
rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	90 kW
 at 400 V at 40 °C rated value 	160 kW
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	
• at rotary coding switch on switch position 1	135 A
 at rotary coding switch on switch position 2 	147 A
• at rotary coding switch on switch position 3	159 A
 at rotary coding switch on switch position 4 	171 A
 at rotary coding switch on switch position 5 	183 A
 at rotary coding switch on switch position 6 	195 A
 at rotary coding switch on switch position 7 	207 A
 at rotary coding switch on switch position 8 	219 A
 at rotary coding switch on switch position 9 	231 A

 at rotary coding switch on switch position 10 	243 A
 at rotary coding switch on switch position 11 	255 A
 at rotary coding switch on switch position 12 	267 A
 at rotary coding switch on switch position 13 	279 A
 at rotary coding switch on switch position 14 	291 A
 at rotary coding switch on switch position 15 	303 A
 at rotary coding switch on switch position 16 	315 A
• minimum	135 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	36 W
• at 50 °C after startup	29 W
• at 60 °C after startup	24 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	3 368 W
● at 50 °C during startup	2 805 W
● at 60 °C during startup	2 455 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 holding current in bypass operation rated value	30 mA 105 mA
	2.2 A
inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	12.2 A
duration of inrush current peak at application of control supply	2.2 ms
voltage	
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	230 mm
width	160 mm
depth	282 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	7.3 kg	
Connections/ Terminals		
type of electrical connection		
 for main current circuit 	busbar connection	
for control circuit	screw-type terminals	
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm	
type of connectable conductor cross-sections		
 for main contacts for box terminal using the front clamping point solid 	95 300 mm²	
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²	
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²	
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²	
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²	
 for AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil	
 for main contacts for box terminal using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²	
• for main contacts for box terminal using both clamping points finely stranded with core end processing	min. 2x 50 mm², max. 2x 185 mm²	
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²	
 for main contacts for box terminal using both clamping points stranded 	min. 2x 70 mm², max. 2x 240 mm²	
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²	
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²	
 for main contacts for box terminal using the back clamping point stranded 	120 240 mm²	
type of connectable conductor cross-sections		
 for AWG cables for main current circuit solid 	2/0 500 kcmil	
 for DIN cable lug for main contacts stranded 	50 240 mm²	
for DIN cable lug for main contacts finely stranded	70 240 mm²	
type of connectable conductor cross-sections		
for control circuit solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)	
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)	
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)	
wire length		
between soft starter and motor maximum	800 m	
at the digital inputs at AC maximum	1 000 m	
tightening torque	44 - 24 N m	
• for main contacts with screw-type terminals	14 24 N·m	
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m	
tightening torque [lbf·in]		
 for main contacts with screw-type terminals 	124 210 lbf·in	
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in	
Ambient conditions		
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual	
ambient temperature		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above	
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 (sand must not get into the devices), 3M6	

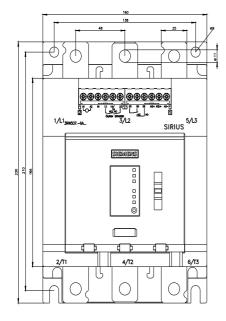
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
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 High Faults at 460/480 V according to UL	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 1000 A; lq = 18 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 1000 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	75 hp
 at 220/230 V at 50 °C rated value 	100 hp
• at 460/480 V at 50 °C rated value	200 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
ATEX	
certificate of suitability	
ATEX	Yes
• IECEX	Yes
UKEX	Yes
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09
PFHD with high demand rate according to EN 62061 relating to ATEX	9E-6 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	3 a
	For use in hazard-
General Product Approval	ous locations
Confirmation CSA	
For use in hazardous locations Declaration of	f Conformity Test Certificates Marine / Shipping
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Marine / Shipping other	

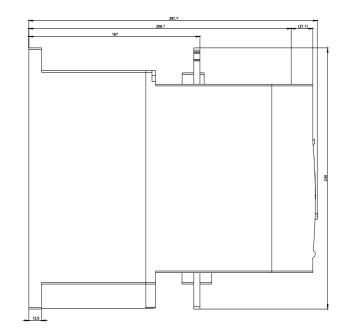


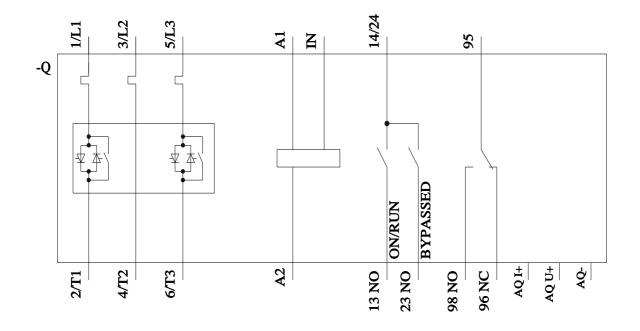


Further information
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a
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=3RW5074-6AB14
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5074-6AB14
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB14
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5074-6AB14⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB14/char
Characteristic: Installation altitude
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5074-6AB14&objecttype=14&gridview=view1
Simulation Tool for Soft Starters (STS)

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







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