SIEMENS

Data sheet

3RW5056-6AB14



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

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 	<u>3RW5980-0HS01</u>			
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 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 	<u>3NE1 230-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 335; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1056</u>			
 of line contactor usable up to 690 V 	<u>3RT1064</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			
buffering time in the event of power failure				

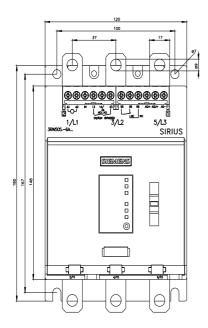
• for main ourrant circuit	100 mc				
for main current circuit for control circuit	100 ms 100 ms				
insulation voltage rated value	600 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV 1 400 V				
blocking voltage of the thyristor maximum					
service factor					
surge voltage resistance rated value	6 kV				
maximum permissible voltage for protective separation	600.1/				
between main and auxiliary circuit shock resistance	600 V				
	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
utilization category according to IEC 60947-4-2	AC-53a Q				
reference code according to IEC 81346-2	09/23/2019				
Substance Prohibitance (Date) SVHC substance name	Lead - 7439-92-1				
SVHC Substance name	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dodecamethylcyclohexasiloxane (D6) - 540-97-6				
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 	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 positive 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 2 	87 A				

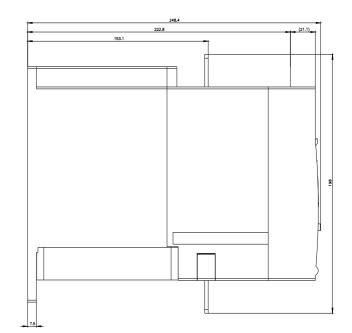
 at rotary coding switch on switch position 3 	93 A
 at rotary coding switch on switch position 4 	99 A
 at rotary coding switch on switch position 5 	105 A
 at rotary coding switch on switch position 6 	111 A
 at rotary coding switch on switch position 7 	117 A
 at rotary coding switch on switch position 8 	123 A
 at rotary coding switch on switch position 9 	129 A
 at rotary coding switch on switch position 10 	135 A
	141 A
at rotary coding switch on switch position 11	
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 %	
• at 40 °C during startup	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	Electionic, apping in the event of thermal overload of the motor
	40
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 05014
• 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 %
	-15 % 10 %
AC at 50 Hz relative positive tolerance of the control supply voltage at	
AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at	10 %
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AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value	10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA
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AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 80 mA 2.5 A 12.2 A
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AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	10 % -15 % 10 % 50 60 Hz -10 % 10 % 30 mA 80 mA 2.5 A 12.2 A 2.2 ms Varistor 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 1 1 3 2
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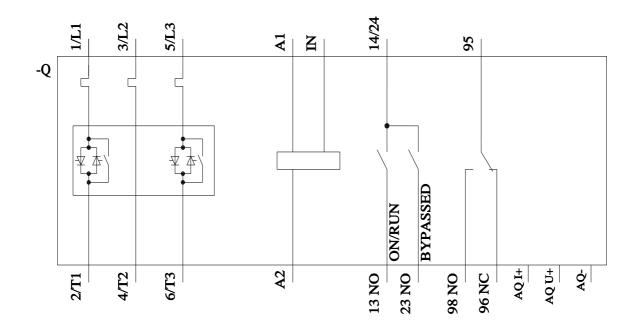
Installation/ mounting/ dimensions					
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface $\frac{1}{22.5^{\circ}}$ tiltable to the front and back				
fastening method	+/- 22.5° tiltable to the front and back screw fixing				
height	198 mm				
width	120 mm				
depth	249 mm				
required spacing with side-by-side mounting					
forwards	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards					
• at the side	75 mm 5 mm				
weight without packaging	5.2 kg				
Connections/ Terminals	0.2 kg				
type of electrical connection					
for main current circuit	busbar connection				
for control circuit					
width of connection bar maximum	screw-type terminals 25 mm				
	23 11111				
type of connectable conductor cross-sections for main contacts for box terminal					
 using the front clamping point solid 	16 120 mm²				
 using the front clamping point finely stranded with core 	16 120 mm²				
end processing					
 using the front clamping point finely stranded without core end processing 	10 120 mm²				
using the front clamping point stranded	16 70 mm²				
using the back clamping point solid	16 120 mm ²				
 r box terminal using the back clamping point 	6 250 kcmil				
using both clamping points solid	max. 1x 95 mm², 1x 120 mm²				
using both clamping points finely stranded with core end	max. 1x 95 mm², 1x 120 mm²				
 processing using both clamping points finely stranded without core 	max. 1x 95 mm², 1x 120 mm²				
end processing • using both clamping points stranded	max. 2x 120 mm²				
 using both clamping points stranded using the back clamping point finely stranded with core 	16 120 mm²				
 using the back clamping point finely stranded without core 	10 120 mm²				
end processing					
 using the back clamping point stranded 	16 120 mm²				
type of connectable conductor cross-sections					
 for AWG cables for main current circuit solid 	4 250 kcmil				
for DIN cable lug for main contacts stranded	16 95 mm ²				
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 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	10 14 Nm				
 for main contacts with screw-type terminals for auxiliany and control contacts with screw type 	10 14 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 	89 124 lbf·in				
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in				
terminals					
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				

Siemens Eco Profile (SEP) Siemens EcoTech EMC emitted interference acc. to IEC 60947-4-2: Class A communication/Protocol - communication/Protocol - communication module is supported Yes • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes ULOSA ratings - manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA5225, max. 250 A; lq = 10 kA • of the fuse - usable for Standard Faults up to 575/600 V - usable for Standard Faults up to 575/600 V Siemens type: 3VA522, max. 250 A; lq max = 65 kA • of the fuse - usable for High Faults up to 575/600 V - usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 400 A; lq = 10 kA operating power [hp] for 3-phase motors - • at 200/208 V at 50 °C rated value 50 hp • at 200/208 V at 50 °C rated value 50 hp • at 460/480 V at 50 °C rated value 50 hp • at 460/480 V at 50 °C rated value	during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 during transport according to IEC 60721 deviced devic	Affatter for the devices), 3M6 phal condensation), 1C2 (no salt mist), 1S2 (sand must not g s), 1M4 M2 (max. fall height 0.3 m) n 7-4-2: Class A Affatter for the devices of the device of the d		
(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 inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) invironmental footprint stemens Eco Profile (SEP) Siemens Eco Profile (SEP) sciences Eco Tech EMC emitted interference acc. to IEC 60947-4-2: Class A communication Protocol res communication Protocol Yes etherNet/IP Yes • RPGOFINET standard Yes • Modbus RTU Yes • Modbus RTD Yes • PROFIBUS Yes /// CSA ratings Yes • of circuit breaker - - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA522, max. 250 A; lq = 10 kA • of the fuse - - usable for Standard Faults up to 575/600 V according to UL Siemens type: 3VA522, max. 350 A; lq = 10 kA • at 200/208 V at 50 °C rated value 50 hp • at 200/208 V at 50 °C rated value 50 hp • at 200/208 V at 50 °C rated value 50 hp • at 200/208 V at 50 °C rated value <t< td=""><td>(sand must not ge• during storage according to IEC 607211K6 (only occasic inside the device: 2K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 61508acc. to IEC 60943• during transport according to IEC 61508Yes• during transport according to IEC 61508Yes• during transport according to IEC 61508Fall• during transport according to IEC 61508Siemens type: 3V• during transport according to IEC 61508Yes• during transport according to IEC 61508Siemens type: 3V• of circuit breaker usable for Standard Faults at 460/480 V according to ULSiemens type: 3V• of the fuse usable for Standard Faults up to 575/600 VSiemens type: 3V• of the fuse usable for High Faults up to 575/600 VType: Class J, mail• of UL• usable for High Faults up to 575/600 VType: Class J, mail• at 200/208 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value<</td><td>Affatter for the devices), 3M6 phal condensation), 1C2 (no salt mist), 1S2 (sand must not g s), 1M4 M2 (max. fall height 0.3 m) n 7-4-2: Class A Affatter for the devices of the device of the d</td></t<>	(sand must not ge• during storage according to IEC 607211K6 (only occasic inside the device: 2K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 61508acc. to IEC 60943• during transport according to IEC 61508Yes• during transport according to IEC 61508Yes• during transport according to IEC 61508Fall• during transport according to IEC 61508Siemens type: 3V• during transport according to IEC 61508Yes• during transport according to IEC 61508Siemens type: 3V• of circuit breaker usable for Standard Faults at 460/480 V according to ULSiemens type: 3V• of the fuse usable for Standard Faults up to 575/600 VSiemens type: 3V• of the fuse usable for High Faults up to 575/600 VType: Class J, mail• of UL• usable for High Faults up to 575/600 VType: Class J, mail• at 200/208 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value<	Affatter for the devices), 3M6 phal condensation), 1C2 (no salt mist), 1S2 (sand must not g s), 1M4 M2 (max. fall height 0.3 m) n 7-4-2: Class A Affatter for the devices of the device of the d		
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certificate of suitability	-			
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Characteristic: Tripping	g characteristics, I ² t, Le	t-through current	•		
Characteristic: Installation altitude http://www.automation.sjemens.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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