SIEMENS

Data sheet

3RW5074-2AB15



SIRIUS soft starter 200-600 V 315 A, 110-250 V AC Spring-loaded 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 	<u>3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA</u>
 of circuit breaker usable at 500 V 	<u>3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA</u>
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 333-2; 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>3RT1075</u>
 of line contactor usable up to 690 V 	<u>3RT1075</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 %
accuracy class according 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
	3, acc. to IEC 60947-4-2
degree of pollution impulse voltage rated value	6 kV
	1 600 V
blocking voltage of the thyristor maximum service factor	
	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	C00.1/
between main and auxiliary circuit	
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	315 A
• at 50 °C rated value	279 A
• at 60 °C rated value	255 A
operating voltage	
rated value	200 600 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 	90 kW
 at 400 V at 40 °C rated value 	160 kW
 at 500 V at 40 °C rated value 	200 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
	29 W
• at 50 °C after startup	
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	-15 %
voltage at AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply	-15 %
voltage at AC at 60 Hz	
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	10 %
voltage frequency	
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	105 mA
locked-rotor current at close of bypass contact	
maximum	2.2 A
	2.2 A 12.2 A
maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control	
maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	12.2 A
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	12.2 A 2.2 ms Varistor
maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	12.2 A 2.2 ms
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	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
maximum inrush current peak at application of control supply voltage 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	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
maximum inrush current peak at application of control supply voltage 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	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
maximum inrush current peak at application of control supply voltage 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	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 3
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 • not parameterizable	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 3 2
maximum inrush current peak at application of control supply voltage 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 • not parameterizable digital output version	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 2 normally-open contacts (NO) / 1 changeover contact (CO)
maximum inrush current peak at application of control supply voltage 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	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 3 2
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• at DC-13 at 24 V rated value

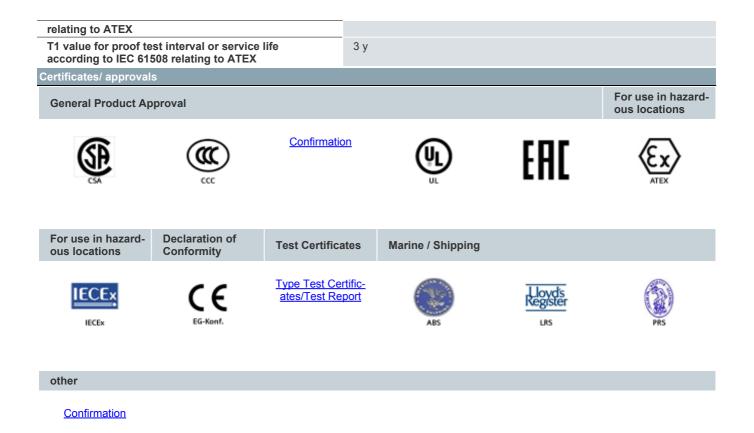
1 A

 at DC-13 at 24 V rated value 	1 A
nstallation/ 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
onnections/ Terminals	5
type of electrical connection	
for main current circuit	busbar connection
for control circuit	spring-loaded 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
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²
at 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	
• at 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	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm ²)
at AWG cables for control circuit solid	2x (24 16)
• at AWG cables for control circuit finally stranded with	$2 \times (24 - 16)$

• at AWG cables for control circuit finely stranded with

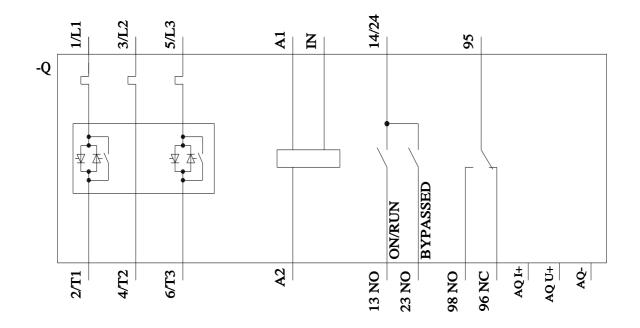
2x (24 ... 16)

core end processing	
wire length	
between soft starter and motor maximum	800 m
 at the digital inputs at AC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	14 24 N·m
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
terminals	
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
terminals Ambient conditions	
	5 000 m; dorating as of 1000 m, ass Manual
installation altitude at height above sea level maximum ambient temperature	5 000 m; derating as of 1000 m, see Manual
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
 during transport according to IEC 60721 	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication/ Protocol	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
	TES
Modbus TCP PROFIBUS	Yes
PROFIBUS	Yes Yes
PROFIBUS UL/CSA ratings	
PROFIBUS UL/CSA ratings manufacturer's article number	
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL of the fuse	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V 	Yes
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA
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 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High 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 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High 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 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp
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 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High 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 at 575/600 V at 50 °C rated value 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp
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 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL 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 at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX IECEx hardware fault tolerance according to IEC 61508 relating to ATEX 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes 0
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V according to UL of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High 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 at 575/600 V at 50 °C rated value 	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes 0
 PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp IIP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0 0.09



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