SIEMENS

Data sheet

3RW5056-2AB15



SIRIUS soft starter 200-600 V 171 A, 110-250 V AC Spring-loaded terminals Analog output

Figure similar

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. lq = 20 kA
 of the gG fuse usable up to 690 V 	<u>3NA3244-6; Type of coordination 1, Iq = 65 kA</u>
 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. lq = 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 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 is supported	
HMI-Standard	Yes
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	1 800 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
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	23.09.2019 00:00:00
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	200 600 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	45 kW
• at 400 V at 40 °C rated value	90 kW
• at 500 V at 40 °C rated value	110 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 3 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 %	
 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	
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
	110200 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	-15 % 10 %
voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
voltage at 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	10 %
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 AC at 60 Hz relative positive tolerance of the control supply	10 % -15 %
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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	1A
	TA
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	spring-loaded terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
for main contacts for box terminal using the front clamping point solid	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	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 mm ²
 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 	2x (0.25 1.5 mm ²)
 for control circuit finely stranded with core end 	2x (0.25 1.5 mm²)
processing	0(04 40)
at AWG cables for control circuit solid	2x (24 16)
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
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 	10 14 N·m
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
terminals	0.0 1.2 14 11
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
environmental category	
 during operation acc. 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 acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
 during transport acc. 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	
	Yes
communication module is supported	Yes Yes
communication module is supported PROFINET standard 	
communication module is supported • PROFINET standard • EtherNet/IP	Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker	Yes Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	Yes Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; Iq = 10 kA
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL • of the fuse	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; Iq = 10 kA
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — 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 Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
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communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — 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	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA
 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL of the fuse 	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp
 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL 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 according to UL according to UL 	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp
 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 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 operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 460/480 V at 50 °C rated value 	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp
 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — 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 — 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 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value 	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp 150 hp
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 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 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 according to UL usable for Japhase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value 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 	Yes Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp 150 hp
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — 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 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 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 • at 575/600 V at 50 °C rated value	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp 150 hp
 communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 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 according to UL usable for Japhase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value 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 	Yes Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp 150 hp

• IECEx		Yes			
hardware fault tolerance acc. to IE ATEX	EC 61508 relating to	0			
PFDavg with low demand rate acc relating to ATEX	c. to IEC 61508	0.09			
PFHD with high demand rate acc. to EN 62061 relating to ATEX		0.000009 1/h			
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX		SIL1			
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX		3 у	3 у		
ertificates/ approvals					
General Product Approval			For use in hazardou	us locations	
		ENL	· · · · ·	<u></u>	
CSA CCC Declaration of Conformity	UL Test Certifica	ates other	IECEx	ATEX	
	<u>Type Test Ce</u> ates/Test Re	rtific- <u>Confirmation</u>	IECEx	ATEX	
Declaration of Conformity <u>Miscellaneous</u>	<u>Type Test Ce</u> <u>ates/Test Re</u>	rtific- <u>Confirmation</u> port	IECEx	ATEX	

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-2AB15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-2AB15&lang=en

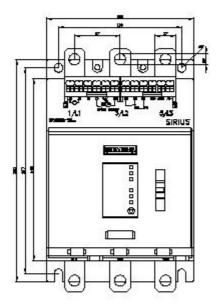
Characteristic: Tripping characteristics, I²t, Let-through current

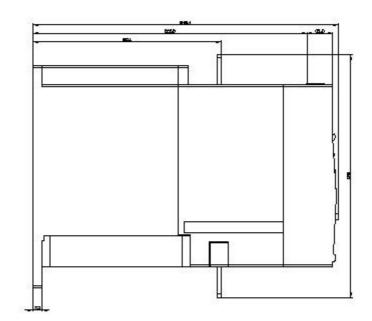
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-2AB15/char

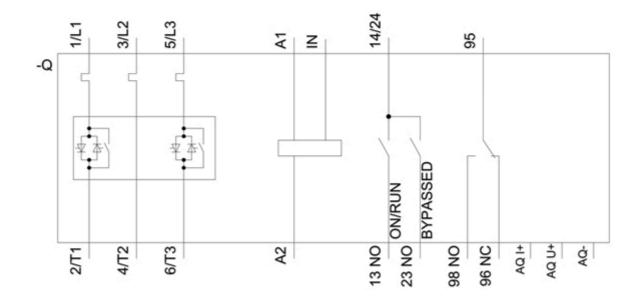
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-2AB15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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