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 	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 230-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 335; Type of coordination 2, Iq = 65 kA
 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 %
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
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 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
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 	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	04.4
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
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 at rotary coding switch on switch position 16	171 A
acrotally couling switch on switch position for minimum	81 A
minimum load [%]	15 %; Relative to smallest settable le
	13 70, Nelative to Silialiest Settable le
power loss [W] for rated value of the current at AC • at 40 °C after startup	29 W
at 40 °C after startup at 50 °C after startup	
·	23 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	1.751.14
• 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
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
control supply current in standby mode rated value holding current in bypass operation rated value	80 mA
control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum	80 mA 2.5 A
control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum	80 mA 2.5 A 12.2 A
control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	80 mA 2.5 A 12.2 A 2.2 ms
control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact 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	80 mA 2.5 A 12.2 A 2.2 ms Varistor
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control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact 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	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
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control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact 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 digital output version number of analog outputs switching capacity current of the relay outputs	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 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact 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 digital output version number of analog outputs	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 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)

stallation/ 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
onnections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
vidth of connection bar maximum	25 mm
ype 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 mm²
 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	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
wire length • between soft starter and motor maximum	800 m

* et the digital injusts at AC maximum ** ightering torque ** for main contacts with screw-type terminals ** for auxilizing and control contacts with screw-type terminals ** in auxilizing and control contacts with screw-type terminals ** for auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing and control contacts with screw-type terminals ** are auxilizing to auxilizing to auxilizing and are are auxilizing to auxilizing and are are are auxiliarial and are according to IEC 60721 ** are auxilizing to auxilizing and are according to IEC 60529 ** are auxilizing to au		1000
• for main contacts with screw-type terminals • for audition and control contacts with surew-type terminals • for main contacts with screw-type terminals • during person • during sportage and transport • during storage according to IEC 60721 To the fuse • during storage according to IEC 60721 * personal		1 000 m
• for auxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for fauxiliary 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 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 contact maximum • for auxiliary and control contact maximum • for a for auxiliary and control contact from the front with cover **Exerciticate of auxiliary to el (16) according to IEC 60529 **TeX* • IECEx • IE		40 444
terminals ightening torque (libf-in) ightening as of 1000 m, see Manual above -40 98 °C 25 +80 °C; Please observe derating at temperatures of 40 °C or above -40 98 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 3S2 (sand must not get limb the devices), 3M6 1K6 (no ice format		
• 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 • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during storage according to	31	0.8 1.2 N·m
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Ambient conditions Installation allitude at height above sea level maximum ambient conditions • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • Communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINES • PROFINES • PROFINES • PROFINES • PROFINES • PROFINES • Ves • V	 for main contacts with screw-type terminals 	89 124 lbf·in
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amblent temperature during operation during storage and transport environmental category during storage according to IEC 60721 EMC emitted interference communication module is supported PROFINET standard EINER/EINE standard PROFINET standard Hodbus RTU Modbus RTU Modbus TCP PROFIBUS PROFIBUS PROFIBUS PROFIBUS PROFIBUS Tyes Siemens type: 3VA5225, max. 250 A: Iq = 10 kA Siemens type: 3VA5225, max. 250 A: Iq = 10 kA Siemens type: 3VA52, max. 400 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A: Iq = 10 kA Siemens type: 3VA52, max. 350 A; Iq = 100 kA Siemens type: 3VA52 max. 350 A; Iq = 100 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq	Ambient conditions	
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• during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 61708 • during transport ac	 during storage and transport 	-40 +80 °C
Mist), 382 (sand must not get into the devices), 3M6	environmental category	
e during transport according to IEC 60721 EMC emitted interference communication Protocol communication module is supported PROFINET standard PROFINET standard EtherNet/IP Modbus RTU PROFIBUS ULCSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to U. usable for Standard Faults up to 575/600 V according to UI. usable for High Faults up to 575/600 V according to UI. usable for High Faults up to 575/600 V according to UI. operating power (inp) for 3-phase motors at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 400/480 V at 50 °C rated value at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 400/480 V at 50 °C rated value at 400/480 V at 50 °C rated value at 200/208 V at 50 °C rated value at 200/208 V at 50 °C rated value at 400/480 V at 50 °C rated value at 400/480 V at 50 °C rated value at 200/208 V at 50 °C rated value at 400/480 V at 50 °C rated value at 400/480 V at 50 °C rated value for high Faults up to 575/600 V according to IEC 61508 protection class IP on the front according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX Type: Class R, Az		mist), 3S2 (sand must not get into the devices), 3M6
EMC emitted interference Communication Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RT	 during storage according to IEC 60721 	
Communication Protocol communication module is supported PROFINET standard PROFINET standard Protocol PROFINET standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Faults at 460/480 V Profile Standard Faults up to 575/600 V Profile Standard Faults up to 575/		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS Ves ProFIBUS Wes ProFIBUS Wes Ves Ves Ves Ves Ves Ves Ves	EMC emitted interference	acc. to IEC 60947-4-2: Class A
PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS Yes Ves Ves Ves Ves Ves Ves Ves	Communication/ Protocol	
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Ves Ves Ves Ves Ves Ves Ves Ve	communication module is supported	
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		3 y

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Confirmation

Further information

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=3RW5056-6AB14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5056-6AB14}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-6AB14&lang=en

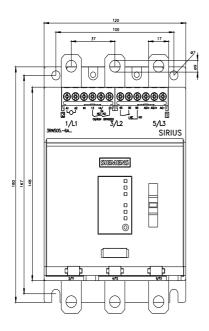
Characteristic: Tripping characteristics, I^2t , Let-through current

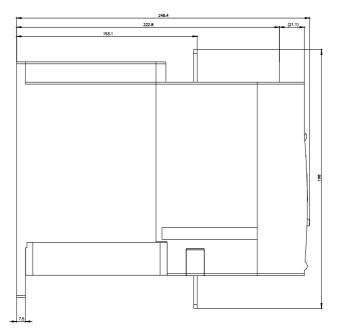
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14/char

Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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





last modified: 4/11/2022 🖸