SIEMENS

Data sheet 3RW5245-6AC14

SIRIUS soft starter 200-480 V 315 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	3RW52
manufacturer's article number	
of standard HMI module usable	3RW5980-0HS00
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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of the gG fuse usable up to 690 V	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
of the gG fuse usable at inside-delta circuit up to 500 V	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1334-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3336; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp 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	3
trip class	CLASS 10A (default) / 10E / 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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 between main and auxiliary circuit 	600 V
	45 - / 44 form 40 - / 44 with retarded contact lifting
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
shock resistance vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting 15 mm to 6 Hz; 2g to 500 Hz

reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
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
• inside-delta circuit	Yes
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
• firmware update	Yes
removable terminal for control circuit	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
operational current at inside-delta circuit	
• at 40 °C rated value	546 A
• at 50 °C rated value	483 A
at 60 °C rated value	442 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	90 kW
• at 230 V at inside-delta circuit at 40 °C rated value	160 kW
 at 400 V at 40 °C rated value 	160 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	315 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	
relative positive tolerance of the operating frequency	10 %
adjustable motor current	405.4
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
adjustable motor current	
for inside-delta circuit at rotary coding switch on switch position 1	234 A
for inside-delta circuit at rotary coding switch on switch position 2	255 A
for inside-delta circuit at rotary coding switch on switch position 3	275 A
for inside-delta circuit at rotary coding switch on switch position 4	296 A
for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at rotary coding switch on switch	317 A
for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on switch	338 A
for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on switch	359 A
for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on switch	379 A
for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on switch	400 A
for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on switch	421 A 442 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on switch 	462 A
position 12 • for inside-delta circuit at rotary coding switch on switch	483 A
position 13 • for inside-delta circuit at rotary coding switch on switch	504 A
position 14 • for inside-delta circuit at rotary coding switch on switch	525 A
position 15 • for inside-delta circuit at rotary coding switch on switch	546 A
position 16 • at inside-delta circuit minimum	234 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 /0, relative to smallest settable le
• at 40 °C after startup	107 W
at 50 °C after startup	96 W
at 60 °C after startup	89 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	
at 50 °C during startup	5 350 W
at 60 °C during startup	5 350 W 4 471 W
Control circuit/ Control	
	4 471 W
	4 471 W
type of voltage of the control supply voltage control supply voltage at AC	4 471 W 3 934 W
type of voltage of the control supply voltage	4 471 W 3 934 W
type of voltage of the control supply voltage control supply voltage at AC	4 471 W 3 934 W AC
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz	4 471 W 3 934 W AC 110 250 V
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz • at 60 Hz relative negative tolerance of the control supply voltage at	4 471 W 3 934 W AC 110 250 V 110 250 V
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz • at 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at	4 471 W 3 934 W AC 110 250 V 110 250 V -15 %
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz • at 60 Hz relative negative 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 AC at 50 Hz	4 471 W 3 934 W AC 110 250 V 110 250 V -15 % 10 %
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz • at 60 Hz relative negative 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 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	4 471 W 3 934 W AC 110 250 V 110 250 V -15 % 10 % -15 %

fraguency	
relative positive tolerance of the control supply voltage	10 %
frequency	
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	100 mA
inrush current by closing the bypass contacts maximum	2.2 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
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	1A
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	393 mm
width	210 mm
depth	203 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	9.9 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit	busbar connection
• for control circuit	screw-type terminals
width of connection bar maximum	45 mm
type of connectable conductor cross-sections	
• for DIN cable lug for main contacts stranded	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 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)
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	000
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum digital inputs at AC maximum	100 m
tightening torque	44 24 N m
for main contacts with screw-type terminals for auxiliary and control contacts with screw type	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	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 catalog
ambient temperature	

• during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • Communication functionene Communication functionenee	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINES • Modulus RTU • Modulus RTU • Modulus RTU • Modulus RTU • Ves • PROFINES manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-deta circuit according to UL — usable for Standard Faults at 578/600 V according to UL — usable for Standard Faults at 578/600 V according to UL — usable for Standard Faults at 578/600 V according to UL — usable for High Faults at up to 575/600 V according to UL — usable for High Faults at up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit according to UL — usable for Standard Faults at 578/600 V according to UL — usable for Standard Faults at 578/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at inside-deta circuit up to 575/600 V according to UL — usable for Standard Faults at 160/480 V at 160/	during operation during storage and transport	· · · · · · · · · · · · · · · · · · ·
during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60729 during transport acco		-40 +60 C
eduring transport according to IEC 60721 22, 22.1, 281, 281, 281, 281, 281, 281, 281, 28		
EMC emitted interference communication Protocol communication module is supported PROFINET standard Emery Modbus RTU Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54, max. 600 A; Iq = 18 kA Mod A or 3VA54,	 during storage according to IEC 60721 	
Communication module is supported PROFIRST standard PROFIRST standard PROFIRST standard PROFIRST standard PROFIRST PROFIRST PROFIRST Wes PROFIRST Tyes PROFIRST Wes Wes Wes Wes Wes Wes Wes We	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported PROFINET standard PROFINET standard Profined Pro	EMC emitted interference	acc. to IEC 60947-4-2: Class A
PROFINET standard EthenNet/IP Edited North Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 575/600 V according to UL of the fuse usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at brisdedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at insidedelta circuit up to 575/600 V according to UL usable for Standard Faults at 50 °C rated value at 200/208 V at 50 °C rated value at 460/480 V at insidedelta circuit at 50 °C rated value at 460/480 V at insidedelta circuit at 50 °C rated value at 460/480 V at insidedelta circuit at 50 °C rated value at 460/480 V at insidedelta circuit at 50 °C	Communication/ Protocol	
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■ PROFIBUS ###	Modbus RTU	Yes
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to 575/600 V according to UL — usable for High Faults at inside-delta circuit 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 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility in accordance with IEC 60947-4-2 Certificates/ approvals		Type: Class J / L, max. 1000 A; Iq = 100 kA
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 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility in accordance with IEC 60947-4-2 Certificates/ approvals		Type: Class J / L, max. 1000 A; Iq = 18 kA
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● at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility in accordance with IEC 60947-4-2 Certificates/ approvals	• at 200/208 V at inside-delta circuit at 50 °C rated value	150 hp
contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility IP00; IP20 with cover finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 Certificates/ approvals	• at 220/230 V at inside-delta circuit at 50 °C rated value	200 hp
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility IP00; IP20 with cover finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 Certificates/ approvals	• at 460/480 V at inside-delta circuit at 50 °C rated value	400 hp
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility IP00; IP20 with cover finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 Certificates/ approvals	contact rating of auxiliary contacts according to UL	R300-B300
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electromagnetic compatibility in accordance with IEC 60947-4-2 Certificates/ approvals	protection class IP on the front according to IEC 60529	IP00; IP20 with cover
Certificates/ approvals	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
	electromagnetic compatibility	in accordance with IEC 60947-4-2
General Product Approval	Certificates/ approvals	
	General Product Approval	EMC

Confirmation









Declaration of Conformity Test Certificates Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

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 an 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=3RW5245-6AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-6AC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-6AC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

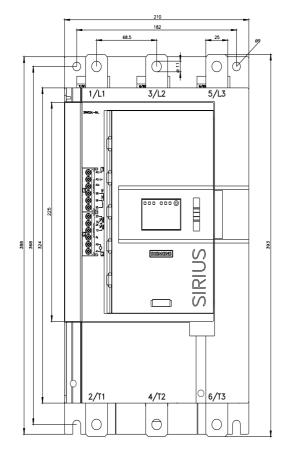
https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC14/char

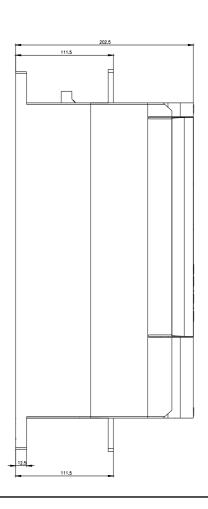
Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5245-6AC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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





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