SIEMENS

Data sheet 3RW5245-2AC15



SIRIUS soft starter 200-600 V 315 A, 110-250 V AC spring-type 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		
eneral 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	5, acc. to inco 00947-4-2				
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				
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)	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 removable terminal for control circuit 	Yes				
territorable terrifinal for control circuit torque control	Yes				
analog output	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
Power Electronics	103, 4 20 IIIA (deladit) / 0 10 V (parameterizable with high reduce high)				
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	200 600 V				
at inside-delta circuit rated value	200 600 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				
at 400 v at molde delta circuit at 40 O rated value	200 kW				
• at 500 V at 40 °C rated value	200 kW				

Operating frequency 1 rated value	50 Hz			
Operating frequency 2 rated value				
Operating frequency 2 rated value	60 Hz -10 %			
relative negative tolerance of the operating frequency				
relative positive tolerance of the operating frequency	10 %			
adjustable motor current	40-4			
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 	317 A			
for inside-delta circuit at rotary coding switch on switch position 6	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 379 A			
position 8 • for inside-delta circuit at rotary coding switch on switch	400 A			
position 9 • for inside-delta circuit at rotary coding switch on switch	421 A			
position 10 • for inside-delta circuit at rotary coding switch on switch	442 A			
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 position 15	525 A			
for inside-delta circuit at rotary coding switch on switch position 16	546 A			
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				
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	5 350 W			
at 50 °C during startup at 50 °C during startup	4 471 W			
at 60 °C during startup at 60 °C during startup	3 934 W			

Control circuit/ Control type of voltage of the control supply voltage	AC			
type of voltage of the control supply voltage	AC			
control supply voltage at AC	440 050 V			
• 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			
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			
nputs/ 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 	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	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	spring-loaded terminals			
width of connection bar maximum	45 mm			
type of connectable conductor cross-sections				
	2x (50 240 mm²)			
 for DIN cable lug for main contacts stranded 	2x (70 240 mm²)			
for DIN cable lug for main contacts strandedfor DIN cable lug for main contacts finely stranded	2x (70 240 mm²)			
-	2x (70 240 mm²)			
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²) 2x (0.25 1.5 mm²)			
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections				

for AWG cables for control circuit finely stranded with	2x (24 16)			
core end processing				
wire length	000			
between soft starter and motor maximum	800 m			
at the digital inputs at AC maximum	100 m			
tightening torque	44 04 N ==			
for main contacts with screw-type terminals	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 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 not get inside the devices), $1M4$			
during transport according 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				
 PROFINET standard 	Yes			
EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
	V			
PROFIBUS	Yes			
PROFIBUS UL/CSA ratings	res			
	res			
UL/CSA ratings	res			
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA			
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according				
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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 at 460/480 V at inside-	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA			
■ 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 at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA			
The standard Faults at 460/480 V according to UL Standard Faults at 460/480 V at insidedelta circuit according to UL Standard Faults at 460/480 V at insidedelta circuit according to UL Standard Faults at 460/480 V at insidedelta circuit according to UL Standard Faults at 575/600 V according to UL Standard Faults at 575/600 V at insidedelta circuit according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA			
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Safety related data	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
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	

General Product Approval

EMC



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

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=3RW5245-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-2AC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

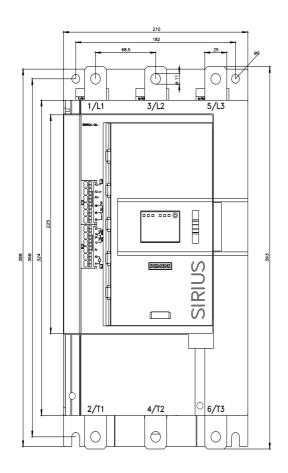
https://support.industry.siemens.com/cs/ww/en/ps/3RW5

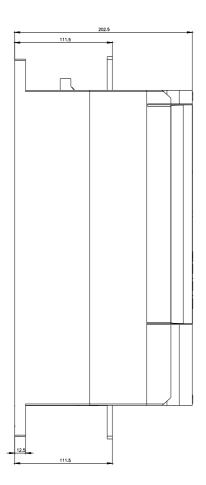
Characteristic: Installation altitude

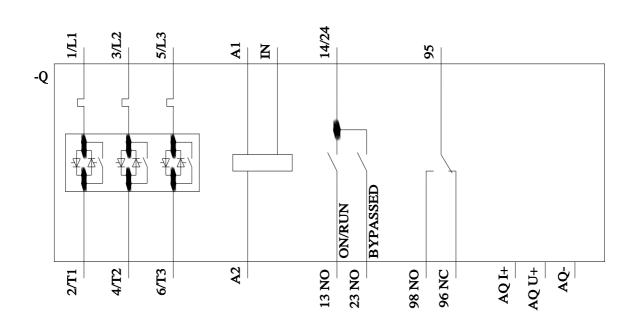
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







3RW52 Page 9	_	2AC	:15