SIEMENS

product brand name product category

Data sheet 3RW5213-1AC05

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-600 V 13 A, 24 V AC/DC Screw terminals Analog output

product category	Trybha 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 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3820-6; Type of coordination 1, Iq = 65 kA
• of full range R fuse link for semiconductor protection usable up to 690 V	3NE1815-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8017-1; 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	
9	No
• is supported HMI-Standard	No Yes
· ·	
• is supported HMI-Standard	Yes
is supported HMI-Standard is supported HMI-High Feature	Yes Yes
is supported HMI-Standard is supported HMI-High Feature product feature integrated bypass contact system	Yes Yes Yes
is supported HMI-Standard is supported HMI-High Feature product feature integrated bypass contact system number of controlled phases	Yes Yes Yes 3
is supported HMI-Standard is supported HMI-High Feature product feature integrated bypass contact system number of controlled phases trip class	Yes Yes Yes 3

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	O NV
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	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	13 A
at 50 °C rated value	11.5 A
at 60 °C rated value	10.5 A
operational current at inside-delta circuit	10.071
at 40 °C rated value	22.5 A
at 50 °C rated value	19.9 A
at 60 °C rated value	18.2 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	3 kW
• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
 at 400 V at 40 °C rated value 	5.5 kW
-t 400 \/ -t iid- delt- eien-it -t 40 %0t-dl	11 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	
at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value	7.5 kW

Operating frequency 1 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 5.5 A • at rotary coding switch on switch position 2 6.5 A • at rotary coding switch on switch position 3 6.5 A • at rotary coding switch on switch position 4 7.5 A • at rotary coding switch on switch position 5 7.5 A • at rotary coding switch on switch position 6 8 A • at rotary coding switch on switch position 7 8.5 A • at rotary coding switch on switch position 8 9 A • at rotary coding switch on switch position 9 9.5 A • at rotary coding switch on switch position 10 10 A • at rotary coding switch on switch position 11 10.5 A • at rotary coding switch on switch position 12 11 A • at rotary coding switch on switch position 14 12 A • at rotary coding switch on switch position 15 12.5 A • at rotary coding switch on switch position 15 12.5 A • at rotary coding switch on switch position 16 13 A • minimum 5.5 A adjustable motor current • for inside-delta circuit at rotary coding switch on switch position 1 • for inside-delta circuit at rotary coding switch on switch position 2 • for inside-delta circuit at rotary coding switch on switch position 1 • for inside-delta circuit at rotary coding switch on switch position 2	
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• for inside-delta circuit at rotary coding switch on switch position 7 14.7 A	
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position 11 • for inside-delta circuit at rotary coding switch on switch 19.1 A	
position 12 • for inside-delta circuit at rotary coding switch on switch 19.9 A	
position 13 • for inside-delta circuit at rotary coding switch on switch position 14 20.8 A	
• for inside-delta circuit at rotary coding switch on switch position 15	
 for inside-delta circuit at rotary coding switch on switch position 16 	
at inside-delta circuit minimum 9.5 A	
minimum load [%] 15 %; Relative to smallest settable	e le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup 16 W	
• at 50 °C after startup 15 W	
• at 60 °C after startup 15 W	
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup 210 W	
• at 50 °C during startup 178 W	
• at 60 °C during startup	

Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
	24.1/
• at 50 Hz rated value	24 V 24 V
at 60 Hz rated value Talative regetive televance of the control cumply voltage at	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 % -
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
inrush current by closing the bypass contacts maximum	0.75 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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 250 V rated value at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	.,,
	±/ 10° rotation possible and can be tilted forward or backward on vertical
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 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	2.1 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
• for control circuit	screw-type terminals
type of connectable conductor cross-sections	

— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
 for AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)
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	(=), = (=)
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
Ů I	
at the digital inputs at DC maximum	1 000 m
tightening torque	0.051
for main contacts with screw-type terminals	2 2.5 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 	18 22 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf-in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
·	5 555 m, Bording 45 or 1555 m, 500 catalog
ambient temperature	25 ±60 °C: Places observe denoting at temperatures of 40 °C or above
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	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	Yes Yes Yes
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	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	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 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	Yes 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	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 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 at inside-	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 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 at insidedelta circuit according to UL usable for High Faults at 460/480 V at insidedelta circuit according to UL usable for High Faults at 460/480 V at insidedelta circuit according to UL usable for High Faults at 460/480 V at insidedelta circuit according to UL usable for Standard Faults at 575/600 V according	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
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 at 460/480 V at 50 °C rated value 	7.5 hp	
 at 575/600 V at 50 °C rated value 	10 hp	
 at 200/208 V at inside-delta circuit at 50 °C rated value 	5 hp	
 at 220/230 V at inside-delta circuit at 50 °C rated value 	5 hp	
 at 460/480 V at inside-delta circuit at 50 °C rated value 	10 hp	
 at 575/600 V at inside-delta circuit at 50 °C rated value 	15 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
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

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=3RW5213-1AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5213-1AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

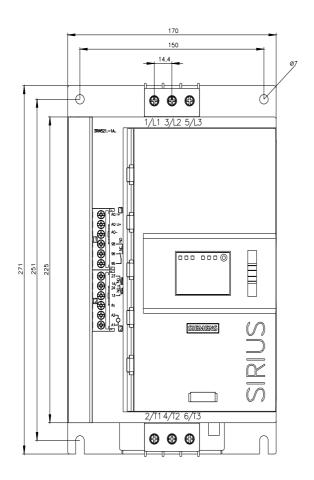
https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC05/char

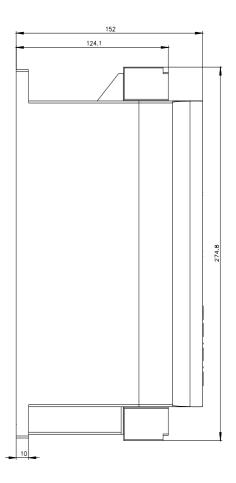
Characteristic: Installation altitude

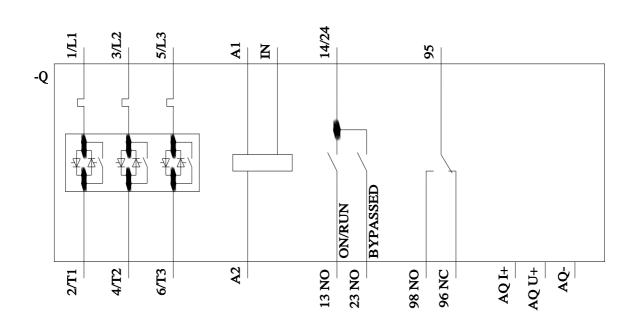
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5213-1AC05\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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