SIEMENS

product brand name product category

Data sheet 3RW5227-3TC15

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-600 V 93 A, 110-250 V AC spring-type terminals Thermistor input

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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3136-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3136-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1224-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE4124; Type of coordination 2, lq = 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
Tor main current circuit	

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 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; Full motor protection (thermistor motor protection and electronic motor overload protection)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
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	No
Power Electronics	
operational current	
• at 40 °C rated value	93 A
• at 50 °C rated value	82.5 A
at 60 °C rated value	75.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	161 A
at 50 °C rated value	143 A
at 60 °C rated value	131 A
operating voltage	000 00014
• rated value	200 600 V
at inside-delta circuit rated value The inside delta circuit rated value	200 600 V
relative negative telerance of the operating voltage	-15 % -10 %
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	00.1114
• at 230 V at 40 °C rated value	22 kW
at 230 V at inside-delta circuit at 40 °C rated value	45 kW
• at 400 V at 40 °C rated value	45 kW
• at 400 V at inside-delta circuit at 40 °C rated value	90 kW
• at 500 V at 40 °C rated value	55 kW
at 500 V at inside-delta circuit 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	10 /0
	40.5 A
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	44 A
at rotary coding switch on switch position 3	47.5 A
	51 A
at rotary coding switch on switch position 4 at rotary coding switch on switch position 5	54.5 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	54.5 A
at rotary coding switch on switch position 7	61.5 A
at rotary coding switch on switch position 8	65 A
at rotary coding switch on switch position 9	68.5 A
	72 A
at rotary coding switch on switch position 10 at rotary coding switch on switch position 11	75.5 A
at rotary coding switch on switch position 11 at rotary coding switch on switch position 12	75.5 A 79 A
at rotary coding switch on switch position 12 at rotary coding switch on switch position 13	82.5 A
at rotary coding switch on switch position 13 at rotary coding switch on switch position 14	86 A
 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 	89.5 A
at rotary coding switch on switch position 15 at rotary coding switch on switch position 16	93 A
at rotary coding switch on switch position to minimum	40.5 A
adjustable motor current	70.0 A
for inside-delta circuit at rotary coding switch on switch position 1	70.1 A
for inside-delta circuit at rotary coding switch on switch position 2	76.2 A
 for inside-delta circuit at rotary coding switch on switch position 3 	82.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	88.3 A
 for inside-delta circuit at rotary coding switch on switch position 5 	94.4 A
 for inside-delta circuit at rotary coding switch on switch position 6 	100 A
for inside-delta circuit at rotary coding switch on switch position 7	107 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch 	113 A 119 A
position 9 • for inside-delta circuit at rotary coding switch on switch	125 A
position 10 • for inside-delta circuit at rotary coding switch on switch	131 A
position 11 • for inside-delta circuit at rotary coding switch on switch	137 A
position 12 • for inside-delta circuit at rotary coding switch on switch	143 A
position 13 • for inside-delta circuit at rotary coding switch on switch position 14	149 A
for inside-delta circuit at rotary coding switch on switch position 15	155 A
 for inside-delta circuit at rotary coding switch on switch position 16 	161 A
at inside-delta circuit minimum	70.1 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	40 W
• at 50 °C after startup	37 W
at 60 °C after startup	35 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	1 270 W
 at 50 °C during startup 	1 077 W
 at 60 °C during startup 	959 W

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
holding current in bypass operation rated value	75 mA
inrush current by closing the bypass contacts maximum	2.5 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	0
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
Installation/ mounting/ dimensions	with westerland to the second
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	306 mm
width	185 mm
depth required spacing with side by side mounting	203 mm
required spacing with side-by-side mounting	10 mm
forwards hackwards	10 mm 0 mm
backwardsupwards	0 mm 100 mm
upwaros downwards	75 mm
at the side	75 mm 5 mm
weight without packaging	6.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	box terminal
• for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)

 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
for main contacts for box terminal using the front clamping point stranded	1x (10 70 mm²)
for main contacts for box terminal using the back clamping point solid	1x (2.5 16 mm²)
for AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)
for main contacts for box terminal using both clamping points solid	2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
type of connectable conductor cross-sections	
 for control circuit solid 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with 	2x (24 16)
core end processing	
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at AC maximum	100 m
tightening torque	
 for main contacts with screw-type terminals 	4.5 6 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 	40 53 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf-in
terrinas	
Ambient conditions	
	5 000 m; Derating as of 1000 m, see catalog
Ambient conditions	5 000 m; Derating as of 1000 m, see catalog
Ambient conditions installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above
Ambient conditions installation altitude at height above sea level maximum ambient temperature	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
Ambient conditions installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
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Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation 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 • EtherNet/IP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
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Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation 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 • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation 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 • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
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- usable for Standard Faults at 575/600 V at inside-Siemens type: 3VA51, max. 125 A; Iq = 10 kA delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 300 A; Iq = 10 kA according to UL - usable for High Faults up to 575/600 V according to Type: Class J / L, max. 250 A; Iq = 100 kA - usable for Standard Faults at inside-delta circuit up Type: Class RK5 / K5, max. 300 A; Iq = 10 kA to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to Type: Class J / L, max. 250 A; Iq = 100 kA 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 25 hp • at 220/230 V at 50 °C rated value 30 hp • at 460/480 V at 50 °C rated value 60 hp at 575/600 V at 50 °C rated value 75 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 40 hp • at 220/230 V at inside-delta circuit at 50 °C rated value 50 hp at 460/480 V at inside-delta circuit at 50 °C rated value 100 hp • at 575/600 V at inside-delta circuit at 50 °C rated value 125 hp R300-B300 contact rating of auxiliary contacts according to UL 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

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5227-3TC15}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5227-3TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-3TC15

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

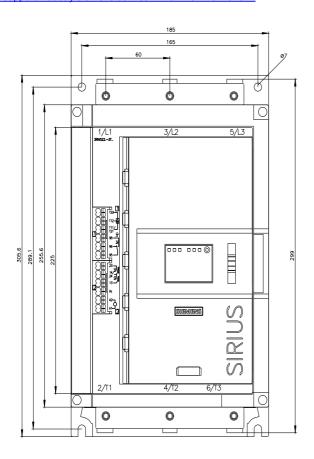
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5227-3TC15\&lang=en}}$

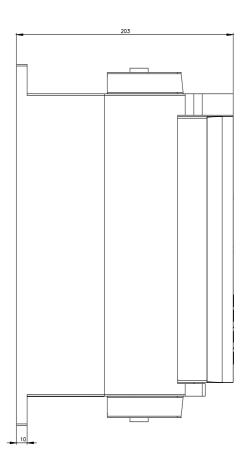
Characteristic: Tripping characteristics, I2t, Let-through current

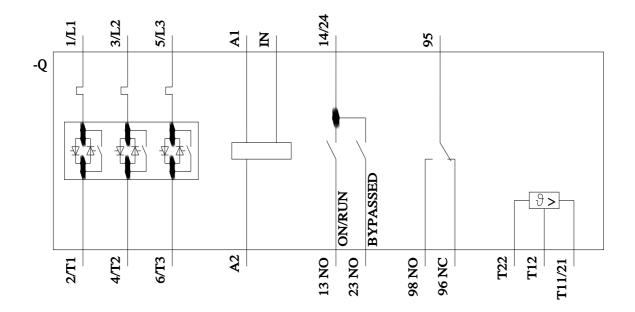
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5227-3TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917







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