SIEMENS

Data sheet 3RW5246-2TC15



SIRIUS soft starter 200-600 V 370 A, 110-250 V AC spring-type terminals Thermistor input

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 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	

CE marking

UL approvalCSA approval

• HMI-Standard

• HMI-High Feature

product component is supported

product feature integrated bypass contact system

Yes

Yes

Yes

Yes

Yes

Yes

trip class buffering time in the event of power failure • for main current circuit • for control circuit • condition on the circuit control circuit • condition on the control circuit • condition on the control circuit • condition control circuit • condit	number of controlled phases	3
bufforing time in the event of power failure • for control circuit insulation vottage rated value 6 kV 5 kock greated value 6 kV 5 kock resistance rated value • between main and auxiliary circuit • form to B Hz; 2g to 500 Hz AC 53a To Firm to B Hz; 2g to 500 Hz AC 53a To Firm to B Hz; 2g to 500 Hz AC 53a • Firm to B Hz; 2g to 500 Hz •		
• for control circuit • for control circuit • for control circuit insulation voltage rated value degree of pollution insulation voltage rated value 600 V blocking voltage of the thyristor maximum • providing resistance rated value • between main and auxiliary circuit • auxiliary circuit • call control contr	_ ·	CEASS TOA (default) / TOE / 20E, acc. to IEO 00347-4-2
100 ms		100 me
Installation voltage rated value 600 V 3, acc. to IEC 60947-4-2 1,		
degree of pollution		
Impulse voltage rated value 6 kV 1600 V 5 kV 5 k		
1600 V 1		
1		
surge voltage resistance rated value maximum permissible voltage for safe isolation between man and auxiliary circuit shock resistance utilization category acc. to IEC 60947-4-2 reference code acc. to IEC 61948-2 Utilization category acc. to IEC 61948-2 AC 53a Value function in ramp-up (soft starting) ramp-up (soft forque ramp-up (soft forque ramp-up (soft forque ramp-up (soft forque ramp-up (soft starting) ramp-up (soft forque ramp-up (soft starting) ramp-up (soft forque ramp-up (soft starting) reside delta circuit ramp-up (soft starting) ram		
maximum permissible voltage for safe isolation		
		O KV
Shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting 15 mm to 6 Hz; 2g to 500 Hz 15 mm to 6 Hz; 2g to 500		600 \/
Utilization resistance		
utilization category acc. to IEC 60947-4-2 reference code acc. to IEC 81345-2 Q reference code acc. to IEC 81345-2 Q Substance Prohibitance (Date) roduct function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • inside-delta circuit • utilization IECSET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software parameterizable • via software parameterizable • via software parameterizable • removable terminal for control circuit • termoan terminal for control circuit • torque control • removable terminal for control circuit • torque control • refore control current • at 40 °C rated value • at 50 °C		
Substance Prohibitance (Date) 15.02.2018 00:00:00 Substance Prohibitance (Date) 7.02.2018 00:00:00 *amp-up (soft starting) 7.02.2018 00:00 *amp-up		
Substance Prohibitance (Date) 15.02.2018 00:00:00		
product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • Intrinsic device protection • pump ramp down • Intrinsic device protection • evaluation of thermistor motor protection • revaluation of thermistor motor protection • revaluation of thermistor motor protection • revaluation of thermistor motor protection • pump ramp down • revaluation of thermistor motor protection • removal RESET • removal reset • removable terminal for control circuit • re		
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remote reset	auto-RESET	Yes
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analog output No Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	 removable terminal for control circuit 	Yes
power Electronics operational current • at 40 °C rated value 370 A • at 50 °C rated value 328 A • at 60 °C rated value 300 A operational current at inside-delta circuit • at 40 °C rated value 641 A • at 50 °C rated value 568 A • at 60 °C rated value 519 A operating voltage • rated value 200 600 V relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at -15 %	• torque control	No
operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value operating voltage • rated value		No
 at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at -15 % 	Power Electronics	
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relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at	• rated value	200 600 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at -15 %	 at inside-delta circuit rated value 	200 600 V
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at -15 %	relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage at -15 %		10 %
		-15 %

relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	110 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	200 kW
 at 400 V at 40 °C rated value 	200 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	355 kW
 at 500 V at 40 °C rated value 	250 kW
at 500 V at inside-delta circuit at 40 °C rated value	450 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	
 at rotary coding switch on switch position 1 	160 A
 at rotary coding switch on switch position 2 	174 A
 at rotary coding switch on switch position 3 	188 A
 at rotary coding switch on switch position 4 	202 A
 at rotary coding switch on switch position 5 	216 A
 at rotary coding switch on switch position 6 	230 A
at rotary coding switch on switch position 7	244 A
at rotary coding switch on switch position 8	258 A
 at rotary coding switch on switch position 9 	272 A
 at rotary coding switch on switch position 10 	286 A
 at rotary coding switch on switch position 11 	300 A
 at rotary coding switch on switch position 12 	314 A
 at rotary coding switch on switch position 13 	328 A
 at rotary coding switch on switch position 14 	342 A
 at rotary coding switch on switch position 15 	356 A
 at rotary coding switch on switch position 16 	370 A
• minimum	160 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	277 A
 for inside-delta circuit at rotary coding switch on switch position 2 	301 A
 for inside-delta circuit at rotary coding switch on switch position 3 	326 A
 for inside-delta circuit at rotary coding switch on switch position 4 	350 A
 for inside-delta circuit at rotary coding switch on switch position 5 	374 A
for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch or swit	398 A
for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch or swit	423 A
for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on	447 A
for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at rotary coding switch at rotary coding switch at rotary coding switch at	471 A
for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on	495 A
for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on	520 A 544 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	568 A
ior inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on	592 A
switch position 14 for inside-delta circuit at rotary coding switch on	617 A
switch position 15	

 for inside-delta circuit at rotary coding switch on 	641 A
switch position 16	
at inside-delta circuit minimum	277 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 	123 W
 at 50 °C after startup 	110 W
 at 60 °C after startup 	102 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	5 575 W
at 50 °C during startup	4 706 W
at 60 °C during startup at 60 °C during startup	4 157 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	AC
	440 050 //
• 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	10 %
voltage at AC at 50 Hz	45.07
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
locked-rotor current at close of bypass contact	2.2 A
maximum	
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 inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
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 250 V rated value at DC-13 at 24 V rated value	1A
	TA .
Installation/ mounting/ dimensions	with vertical recording out 1/000t-t-bla 1/1 // //
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

- baaluuarda	0
• 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
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 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 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for control circuit solid 	2x (24 16)
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)
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 	14 24 N·m
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
for main contacts with screw-type terminals	124 210 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
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 acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. 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
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 18 kA

- usable for High Faults up to 575/600 V Type: Class J / L, max. 1200 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 1200 A; Iq = 18 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 1200 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 100 hp • at 220/230 V at 50 °C rated value 125 hp • at 460/480 V at 50 °C rated value 250 hp • at 575/600 V at 50 °C rated value 300 hp • at 200/208 V at inside-delta circuit at 50 °C rated 200 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 200 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 450 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 600 hp value R300-B300 contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover touch protection on the front acc. 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

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=3RW5246-2TC15

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5246-2TC15}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2TC15

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

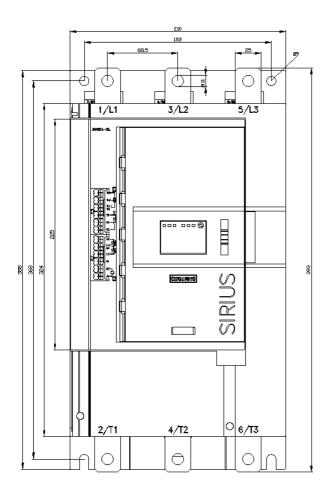
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5246-2TC15&lang=en

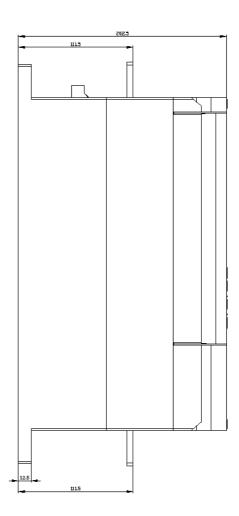
Characteristic: Tripping characteristics, I2t, Let-through current

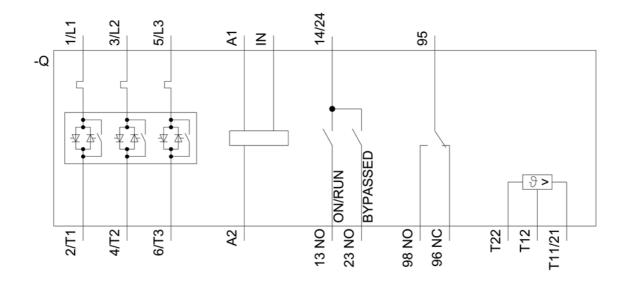
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







last modified: 12/15/2020 🖸