SIEMENS

product brand name

Data sheet 3RW5246-2TC05

SIRIUS



SIRIUS soft starter 200-600 V 370 A, 24 V AC/DC spring-type terminals Thermistor input

product brand name	3IKI03
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
·	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

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
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	370 A
at 50 °C rated value	328 A
at 60 °C rated value	300 A
operational current at inside-delta circuit	044.4
• at 40 °C rated value	641 A
• at 50 °C rated value	568 A
at 60 °C rated value	519 A
operating voltage	000 000 //
• rated value	200 600 V
at inside-delta circuit rated value Talativa possitiva talangua of the approximation values.	200 600 V
relative negative tolerance 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	
• 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 	398 A
 for inside-delta circuit at rotary coding switch on switch position 7 	423 A
 for inside-delta circuit at rotary coding switch on switch position 8 	447 A
for inside-delta circuit at rotary coding switch on switch position 9	471 A
for inside-delta circuit at rotary coding switch on switch position 10	495 A
for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on switch	520 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on switch 	544 A 568 A
position 13 • for inside-delta circuit at rotary coding switch on switch	592 A
position 14 • for inside-delta circuit at rotary coding switch on switch	617 A
position 15 • for inside-delta circuit at rotary coding switch on switch	641 A
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	4 157 W

0	
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
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	-10 %
frequency 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	470 mA
inrush current by closing the bypass contacts maximum	7.6 A
inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	3.3 A
maximum	
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	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 Δ
Installation/mounting/dimensions	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
mounting position fastening method height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
mounting position fastening method height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
mounting position fastening method height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 100 mm 100 mm 75 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 100 mm 15 mm 5 mm 9.9 kg
mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 100 mm 15 mm 100 mm 75 mm 5 mm 9.9 kg
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 100 mm 15 mm 5 mm 9.9 kg

with conductor cross-sections = 1.5 mm² maximum with conductor cross-sections = 1.5 mm² maximum you of connectable conductor cross-sections * for DN catale king for man contacts stranded * for DN catale king for man contacts fromly stranded * for DN catale king for man contacts fromly stranded * for DN catale king for man contacts fromly stranded * for CN control circuit shell is * for control circuit shell is * for control circuit shell is * for AWC cables for control circuit finely stranded with core and processing * for AWC cables for control circuit finely stranded with core and processing * for which cables for control circuit finely stranded with core and processing * which engine insolute at AC maximum * at the digital insolut at AC maximum * at the digital in	• with conductor cross section = 0.5 mm² maximum	50 m
* with conductor cross-sections 2.5 mm² maximum 250 m 2 km² connectable conductor cross-sections 4 km² connectable sign or main contacts stranded 2 k (50 240 mm²) 2 km² control cross stranded 2 k (50 240 mm²) 2 km² control cross stranded 2 k (70 240 mm²) 2 km² control cross stranded 2 k (20 1.5 mm²) 2 k	with conductor cross-section = 0.5 mm² maximum with conductor cross section = 1.5 mm² maximum	
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Type of connectable conductor cross-sections of control circuit finally stranded with core and processing of nAWG cables for control circuit fleely stranded with core and processing of nAWG cables for control circuit fleely stranded with 2x (24 - 16)	-	
• for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finally standed with core end processing • for AWG cables for control circuit finally stranded with core end processing wive length • between soft starter and motor maximum • at the digital inputs at IAC maximum • for auxiliary and control cortacts with screw-type terminals • for auxiliary and control cortacts with screw-type terminals • for auxiliary and control cortacts with screw-type • terminals **Installation attitude at height above sea level maximum **Installation attitude at height above sea		2A (10 240 Hilli)
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• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • during and transport • during operation • during operation • during operation • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFIBEUS **The Class J / L, max. 1200 A; Iq = 18 kA **Type: Class J / L, max. 1200 A; Iq = 18 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **Type: Class J / L, max. 1200 A; Iq = 100 kA **	at the digital inputs at DC maximum	1 000 m
tightaning torque (libf-in) • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • during transport and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINED • Modous RTU • Modous RTU • Modous RTU • Modous RTU • Lusable for High Faults up to 575/600 V according to UL • Lusable for High Faults at inside-delta circuit up to 575/600 V according to UL • Lusable for High Faults at inside-delta circuit up to 575/600 V according to UL • Lusable for High Faults at inside-delta circuit up to 575/600 V according to UL • Lusable for High Faults at inside-delta circuit up to 575/600 V according to UL • Lat 200/280 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at inside-delta circuit	tightening torque	
terminals tightening torque (lbf-in) • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during storage and corroling to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during the devices), 3M6 • during transport according to IEC 60721 • during the devices of the screen of the	 for main contacts with screw-type terminals 	14 24 N·m
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• at 460/480 V at inside-delta circuit at 50 °C rated value 450 hp	• at 200/208 V at inside-delta circuit at 50 °C rated value	200 hp
·	• at 220/230 V at inside-delta circuit at 50 °C rated value	200 hp
• at 575/600 V at inside-delta circuit at 50 °C rated value 600 hp	• at 460/480 V at inside-delta circuit at 50 °C rated value	450 hp
	• at 575/600 V at inside-delta circuit at 50 °C rated value	600 hp

contact rating of auxiliary contacts according to UL	R300-B300
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





Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping



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=3RW5246-2TC05

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5246-2TC05}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2TC09

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5246-2TC05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2TC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5246-2TC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







