SIEMENS

Data sheet 3RW5246-2AC04



SIRIUS soft starter 200-480 V 370 A, 24 V AC/DC 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

General 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	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 safe isolation	
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	370 A
at 50 °C rated value at 50 °C rated value	328 A
at 60 °C rated value 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	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative positive tolerance of the operating voltage at	-15 %
inside-delta circuit	
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 at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 355 kW Operating frequency 1 rated value 50 Hz Operating frequency 2 rated value 60 Hz relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 at rotary coding switch on switch position 8 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15
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 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
 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
 for inside-delta circuit at rotary coding switch on switch position 4
 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
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• for inside-delta circuit at rotary coding switch on switch position 11 • for inside delta circuit at rotary coding switch on 520 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 568 A
switch position 13
• for inside-delta circuit at rotary coding switch on switch position 14 • for inside delta circuit at rotary coding switch on switch on switch position 14
 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on 641 A
 for inside-delta circuit at rotary coding switch on 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
3	4 706 W
3 44 4 7	4 157 W
Control circuit/ Control	
type or remage or the central capping remage	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 %
voltage at AC at 50 Hz	20 %
voltage at AC at 60 Hz	-20 %
voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
0.7 2 0 7 0.100	24 V
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
	7.6 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	
	1
number of digital outputs	3
	2
	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
Installation/ mounting/ dimensions	
	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
- apriarao	
·	75 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	
 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 	2x (0.25 1.5 mm²)
processing	24/24 46)
at AWC cables for control circuit solid at AWC cables for control circuit finely stranded with	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
at the digital inputs at DC maximum	1 000 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
terminals	
Ambient conditions	F 000 as Develop as of 4000
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	25 LGO °C: Places about a destina at temperature of 40 °C.
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
dustra transport in the Control	not get inside the devices), 1M4
during transport according to IEC 60721 ENC amitted interference.	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	V
PROFINET standard Fits a North P	Yes
EtherNet/IP Madhar BTU	Yes
Modbus RTU Modbus TCP	Yes
Modbus TCP PROFIBLIS	Yes
PROFIBUS III (CSA ratings)	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse Proposed Foundary Equations to 575/600 V	Type: Class 1/1 may 1200 A: Is = 10 kA
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; lq = 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 circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 18 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA
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 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 contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2 electromagnetic compatibility 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

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=3RW5246-2AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5246-2AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5246-2AC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC04/char

Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5246-2AC04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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

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