SIEMENS

product brand name

Data sheet 3RW5248-2AC15

SIRIUS



SIRIUS soft starter 200-600 V 570 A, 110-250 V AC spring-type terminals Analog output

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 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2510-6HN32-0AA0; 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 	3NE1437-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3340-8; 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
buffering time in the event of power failure	
for main current circuit	100 ms

600 V
3, acc. to IEC 60947-4-2
6 kV
1 600 V
1
6 kV
600 V
15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
15 mm to 6 Hz; 2g to 500 Hz
AC 53a
Q
02/15/2018
Yes
Yes; Electronic motor overload protection
No
Yes
Yes
Yes
Yes; By turning off the control supply voltage
Yes
Yes; Only in conjunction with special accessories
Yes; Only in conjunction with special accessories
No
Yes
Yes; in connection with the PROFINET Standard communication module
Yes
Yes
No
Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
570 A
570 A
504 A
504 A 460 A
504 A 460 A 987 A
504 A 460 A 987 A 873 A
504 A 460 A 987 A
504 A 460 A 987 A 873 A 796 A
504 A 460 A 987 A 873 A 796 A 200 600 V
504 A 460 A 987 A 873 A 796 A
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 % 10 % 160 kW 315 kW
504 A 460 A 987 A 873 A 796 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %

Operating frequency 2 rated value Felative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current 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 3 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 at rotary coding switch on switch position 9 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 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit	
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position 9	
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position 10	
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o for inside-delta circuit at rotary coding switch on switch position 12 of for inside-delta circuit at rotary coding switch on switch 873 A	
position 13 • for inside-delta circuit at rotary coding switch on switch 911 A	
position 14 • for inside-delta circuit at rotary coding switch on switch 949 A	
position 15 • for inside-delta circuit at rotary coding switch on switch 987 A	
position 16 • at inside-delta circuit minimum 416 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 183 W	
• at 50 °C after startup	
• at 60 °C after startup 153 W	
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup 10 241 W	
• at 50 °C during startup 8 500 W	
• at 60 °C during startup 7 663 W	

Control circuit/ Control type of voltage of the control supply voltage	AC
	Λ0
control supply voltage at AC	110 250 V
• 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	100 mA
inrush current by closing the bypass contacts maximum	2.2 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
nputs/ 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 24 V rated value 	1 A
nstallation/ mounting/ dimensions	
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
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	10.6 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 stranded 	2v /70 240 mm²)
for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
-	2X (70 240 IIIIIF)
• for DIN cable lug for main contacts finely stranded	2x (0.25 1.5 mm²)
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	

 for 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	5 000 III, Defaulting as of 1000 III, see catalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
	-40 +80 °C
during storage and transport Applications and transport Applications are transp	
environmental category	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
during operation according to IEC 60721 during operation according to IEC 60721	(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	
 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. 1600 A; Iq = 30 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1600 A; Iq = 30 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	150 hp
• at 220/230 V at 50 °C rated value	200 hp
• at 460/480 V at 50 °C rated value	400 hp
• at 575/600 V at 50 °C rated value	500 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	300 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	350 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	750 hp
• at 575/600 V at inside-delta circuit at 50 °C rated value	950 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	EMC
Ochorar i roddot Approval	LINO



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=3RW5248-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5248-2AC15

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5248-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5248-2AC15&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5248-2AC15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5248-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







