SIEMENS



Data sheet 3RW5244-2AC15



SIRIUS soft starter 200-600 V 250 A, 110-250 V AC 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 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1331-0; 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 (defaul / 20E, acc. to IEC 60947-4-2
•	CLASS TOA (detaul 7 20E, acc. to IEC 0094 -4-2
buffering time in the event of power failure for main current circuit	100 ms
• for control circuit	100 ms
	600 V
insulation voltage rated value	
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	000.1/
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	Van
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down intrinsic device and action	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	250 A
at 50 °C rated value	220 A
at 60 °C rated value	200 A
operational current at inside-delta circuit	
at 40 °C rated value	433 A
at 50 °C rated value	381 A
at 60 °C rated value	346 A
operating voltage	
• rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
iliside-della circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %

 at 230 V at 40 °C rated value 	75 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	132 kW 132 kW
 at 400 V at 40 °C rated value 	132 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	250 kW
 at 500 V at 40 °C rated value 	160 kW
at 500 V at inside-delta circuit at 40 °C rated value	315 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 	100 A
 at rotary coding switch on switch position 2 	110 A
 at rotary coding switch on switch position 3 	120 A
at rotary coding switch on switch position 4	130 A
at rotary coding switch on switch position 5	140 A
 at rotary coding switch on switch position 6 	150 A
at rotary coding switch on switch position 7	160 A
at rotary coding switch on switch position 8	170 A
at rotary coding switch on switch position 9	180 A
at rotary coding switch on switch position 10	190 A
at rotary coding switch on switch position 11	200 A
at rotary coding switch on switch position 12	210 A
at rotary coding switch on switch position 13	220 A
at rotary coding switch on switch position 14	230 A
at rotary coding switch on switch position 15	240 A
at rotary coding switch on switch position 16	250 A
minimum adjustable motor current	100 A
for inside-delta circuit at rotary coding switch on	173 A
switch position 1	11071
 for inside-delta circuit at rotary coding switch on switch position 2 	191 A
 for inside-delta circuit at rotary coding switch on switch position 3 	208 A
 for inside-delta circuit at rotary coding switch on switch position 4 	225 A
for inside-delta circuit at rotary coding switch on switch position 5 for inside delta circuit at retary coding switch on	242 A 260 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on 	277 A
switch position 7 • for inside-delta circuit at rotary coding switch on	294 A
switch position 8 • for inside-delta circuit at rotary coding switch on	312 A
switch position 9for inside-delta circuit at rotary coding switch on	329 A
switch position 10 • for inside-delta circuit at rotary coding switch on	346 A
switch position 11 for inside-delta circuit at rotary coding switch on switch position 12.	364 A
 switch position 12 for inside-delta circuit at rotary coding switch on switch position 13 	381 A
 for inside-delta circuit at rotary coding switch on switch position 14 	398 A
for inside-delta circuit at rotary coding switch on switch position 15	416 A
 for inside-delta circuit at rotary coding switch on switch position 16 	433 A
at inside-delta circuit minimum	173 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 	78 W dientudong
 at 50 °C after startup 	78 W
at 60 °C after startup	72 W Juloutuuony
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	3 818 W
 at 50 °C during startup 	3 188 W
 at 60 °C during startup 	2 799 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	100 mA
locked-rotor current at close of bypass contact 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
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	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	
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	9.9 kg
Connections/ Terminals	
type of electrical connection	

For control circuit width of connection bar maximum type of connectable conductor cross-sections For DN cable lug for main contacts finally standed	for main accurant size of	husbar consession
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	— usable for Standard Faults up to 575/600 V	Type: Class J / L, max. 800 A; Iq = 18 kA
	•	Type: Class J / L, max. 800 A; Iq = 100 kA

according to UL - usable for Standard Faults at inside-delta Type: Class J / L, circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, ma to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value 60 hp at 220/230 V at 50 °C rated value 75 hp • at 460/480 V at 50 °C rated value 150 hp • at 575/600 V at 50 °C rated value 200 hp • at 200/208 V at inside-delta circuit at 50 °C rated 125 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 150 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 300 hp • at 575/600 V at inside-delta circuit at 50 °C rated 350 hp R300-B300 contact rating of auxiliary contacts according to UL 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 electromagnetic compatibility in accordance with IEC 60947-4-2 Certificates/ approvals



Confirmation









EMC

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

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=3RW5244-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5244-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC15

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

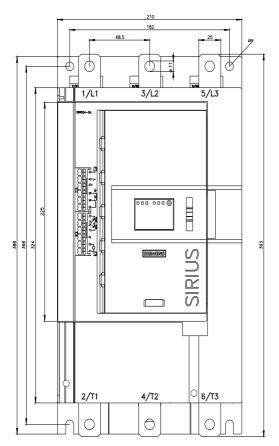
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2AC15&lang=en Characteristic: Tripping characteristics, I2t, Let-through current

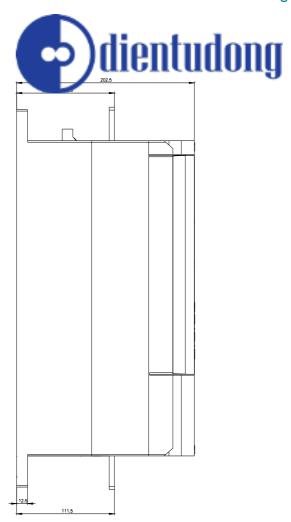
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2AC15/char

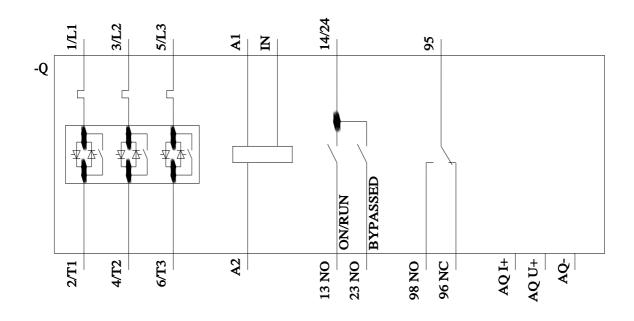
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2AC15&objecttype=14&gridview=view1

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







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