SIEMENS

Data sheet 3RW5234-2AC15



SIRIUS soft starter 200-600 V 113 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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1225-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3332-0B; Type of coordination 2, Iq = 65 kA
Seneral 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	1 800 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 evaluation of thermister meter protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection incide delta circuit	No Vos
• 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	113 A
at 50 °C rated value	101 A
at 60 °C rated value	89 A
operational current at inside-delta circuit	
• at 40 °C rated value	196 A
at 50 °C rated value	175 A
at 60 °C rated value at 60 °C rated value	154 A
operating voltage	10171
rated value	200 600 V
	200 600 V
at inside-delta circuit rated value relative possible telerance of the energting voltage.	
relative negative tolerance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage	-15 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	30 MW
at 230 V at 40 °C rated value at 230 V at inside delta sireuit at 40 °C rated value	30 kW
at 230 V at inside-delta circuit at 40 °C rated value	55 kW
 at 400 V at 40 °C rated value 	55 kW

e at 400 V at incide delta circuit at 40 °C anted visits	110 kW
• at 400 V at inside-delta circuit at 40 °C rated value	110 kW
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 	75 kW 132 kW
	50 Hz
Operating frequency 1 rated value 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	10 70
at rotary coding switch on switch position 1	53 A
at rotary coding switch on switch position 2	57 A
at rotary coding switch on switch position 3	61 A
at rotary coding switch on switch position 4	65 A
at rotary coding switch on switch position 5	69 A
at rotary coding switch on switch position 6	73 A
 at rotary coding switch on switch position 7 	77 A
at rotary coding switch on switch position 8	81 A
 at rotary coding switch on switch position 9 	85 A
 at rotary coding switch on switch position 10 	89 A
at rotary coding switch on switch position 11	93 A
at rotary coding switch on switch position 12	97 A
at rotary coding switch on switch position 13	101 A
at rotary coding switch on switch position 14	105 A
• at rotary coding switch on switch position 15	109 A
 at rotary coding switch on switch position 16 	113 A
• minimum	53 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	98.7 A
 for inside-delta circuit at rotary coding switch on switch position 3 	106 A
 for inside-delta circuit at rotary coding switch on switch position 4 	113 A
 for inside-delta circuit at rotary coding switch on switch position 5 	120 A
 for inside-delta circuit at rotary coding switch on switch position 6 	126 A
 for inside-delta circuit at rotary coding switch on switch position 7 	133 A
 for inside-delta circuit at rotary coding switch on switch position 8 	140 A
for inside-delta circuit at rotary coding switch on switch position 9	147 A
for inside-delta circuit at rotary coding switch on switch position 10	154 A
for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on	161 A
for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on	168 A 175 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	175 A 182 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	189 A
switch position 15 • for inside-delta circuit at rotary coding switch on	196 A
switch position 16 • at inside-delta circuit minimum	91.8 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	46 W
at 50 °C after startup	42 W
at 60 °C after startup	39 W
·	

power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	1 512 W
 at 50 °C during startup 	1 291 W
at 60 °C during startup	1 086 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	75 mA
locked-rotor current at close of bypass contact maximum	2.5 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	
Inputs/ Outputs number of digital inputs number of digital outputs	not part of scope of supply
number of digital inputs	not part of scope of supply
number of digital inputs number of digital outputs • not parameterizable	not part of scope of supply 1 3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	not part of scope of supply 1 3
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
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number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	not part of scope of supply 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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ype of connectable conductor cross-sections • for DN cable lug for main contacts stranded • for DN cable lug for main contacts stranded • for DN cable lug for main contacts stranded • for control circuit solid • at AWC cables for control circuit solid • at the digital inputs at AC maximum • at the digital inputs at AC maximum • the digital inputs at AC maximum • to reactify and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for aux		
• for DN cable by for main contacts finely stranded yps of connectable conductor ross-sections • for control circuit solid • for control circuit solid • for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core and processing wire length • between solt starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals •	type of connectable conductor cross-sections	
Section Sect		· · · · · · · · · · · · · · · · · · ·
For control circual solid		2x (25 120 mm²)
of a AWG cables for control circuit said	**	0. (0.05 4.5 0)
e at AWG cables for control circuit solid e at AWG cables for control circuit solid e at AWG cables for control circuit solid 2x (24 16)		
a A WG cables for control circuit finely stranded with core end processing wire length between soft stanter and motor maximum at the digital inputs at AC maximum tightening forque of main contacts with screw-type terminals of or auxiliary and control contacts with screw-type termi	processing	
wise length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m		
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• at the digital inputs at AC maximum tightening torque • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for suding to terminals • for auxillary and control contacts with screw-type • during operation • during storage according to terminals • during operation • during operation according to UL • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 57660 V according to UL • usable for Standard Faults up to 575600 V according to UL • usable for Standard Faults up to 575600 V according to UL • usable for Standard Faults up to 575600 V according to UL • usable for Standard Faults up to 575600 V according to UL • usable for Standard Faults up to 575600 V according to U		
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• for main contacts with screw-type terminals • for auxiliary and control control contacts with screw-type terminals • for control c		100 m
• for auxiliary and control contacts with screw-type terminals tightening torque [ibFin] • for or 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 potention • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFIEUS • PROFIEUS • PROFIEUS • PROFIEUS • PROFIEUS • PROFIEUS • Justification according to IEC 60721 • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA • Siemens type: 3VA52, max. 250 A; lq = 10 kA		
terminals tightening torque [Ibf-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 **Third conditions** **Third	• • • • • • • • • • • • • • • • • • • •	
• 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 Ambient conditions		0.8 1.2 N·m
• for auxiliary and control contacts with screw-type terminals Ambient conditions installation attitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during operation according 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 ransport according to IEC 60721 • DEMC emitted Interference Communication/ Protocol communication/ Protocol communication module is supported • PROFIBUS Tyes • PROFIBUS Tyes • PROFIBUS Tyes UL/OSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V a coording to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL	tightening torque [lbf·in]	
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— usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 350 A; Iq = 10 kA	— usable for High Faults up to 575/600 V	Type: Class J / L, max. 350 A; Iq = 100 kA
	— usable for Standard Faults at inside-delta	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA

 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	30 hp
 at 220/230 V at 50 °C rated value 	30 hp
 at 460/480 V at 50 °C rated value 	75 hp
 at 575/600 V at 50 °C rated value 	100 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	50 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	60 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	125 hp
• at 575/600 V at inside-delta circuit at 50 °C rated value	150 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





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=3RW5234-2AC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5234-2AC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-2AC15

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5234-2AC15\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current

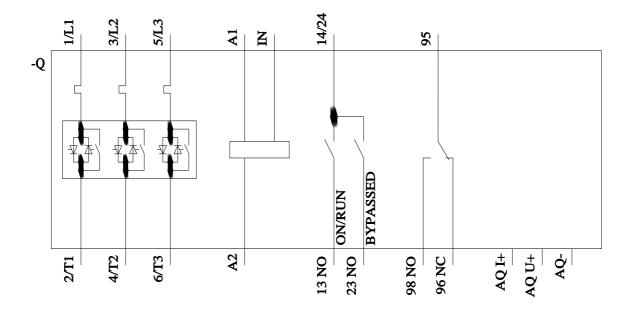
https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-2AC15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5234-2AC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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



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