SIEMENS

Data sheet





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 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 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 	<u>3NE1225-0; Type of coordination 2, Iq = 65 kA</u>
of back-up R fuse link for semiconductor protection	3NE3332-0B; Type of coordination 2, Iq = 65 kA

 \bullet of back-up R fuse link for semiconductor protection usable up to 690 V

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 buffering time in the event of power failure 100 ms • for main current circuit • for control circuit 100 ms

3RW5234-2AC14

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					
service factor	1 400 V 1				
surge voltage resistance rated value	1 6 kV				
maximum permissible voltage for protective separation					
between main and auxiliary circuit	600 V				
shock resistance	600 V 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
utilization category according to IEC 60947-4-2	AC 53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	02/15/2018				
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dodecamethylcyclohexasiloxane (D6) - 540-97-6				
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 remote reset	Yes				
communication function	Yes; By turning off the control supply voltage 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)				
ower 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	154 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 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					

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position 5Provide the circuit at rotary coding switch on switch position 6126 A• for inside-delta circuit at rotary coding switch on switch position 7133 A• for inside-delta circuit at rotary coding switch on switch position 8140 A• for inside-delta circuit at rotary coding switch on switch position 9140 A• for inside-delta circuit at rotary coding switch on switch position 10147 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 11168 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding sw	position 4	
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position 7Image: Constraint of the current at AC• for inside-delta circuit at rotary coding switch on switch position 9140 A• for inside-delta circuit at rotary coding switch on switch position 9147 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 11168 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16180 A• for inside-delta circuit at rotary coding switch on switch position 16180 A• for inside-	position 6	
position 8147 A• for inside-delta circuit at rotary coding switch on switch position 9147 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 1615%; Relative to smallest settable le• for inside-delta circuit at rotary coding switch on switch position 1615%; Relative to smallest settable le• at inside-delta circuit at rotary coding switch on switch position 1615%; Relative to smallest settable le• at inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit at rotary coding switch on switch position 1691.8 A• at 40 °C after startup • at 40 °C after startup46 W• at 60 °C after startup • at 60 °C after startup39 W	position 7	
position 9154 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 16196 A• at too °C after startup • at 40 °C after startup46 W• at 50 °C after startup • at 60 °C after startup39 W	position 8	
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position 11For inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 1691.8 A• for inside-delta circuit minimum91.8 A• at inside-delta circuit of the current at AC • at 40 °C after startup46 W• at 50 °C after startup42 W• at 60 °C after startup39 W	position 10	
position 12• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit minimum91.8 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC46 W• at 40 °C after startup • at 50 °C after startup42 W• at 60 °C after startup39 W	position 11	
position 13Image: Constraint of the current at AC• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit minimum91.8 A• at inside-delta circuit at rotary coding switch on switch position 1615 %; Relative to smallest settable le• at 40 °C after startup46 W• at 50 °C after startup42 W• at 60 °C after startup39 W	position 12	
position 14Image: Constraint of the const	position 13	
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power loss [W] for rated value of the current at AC• at 40 °C after startup• at 50 °C after startup• at 50 °C after startup• at 60 °C after startup39 W		
• at 40 °C after startup 46 W • at 50 °C after startup 42 W • at 60 °C after startup 39 W		15 %; Relative to smallest settable le
at 50 °C after startup at 60 °C after startup 39 W		10.11
• at 60 °C after startup 39 W		
	-	
	• at 60 °C after startup power loss IWI at AC at current limitation 350 %	29.10

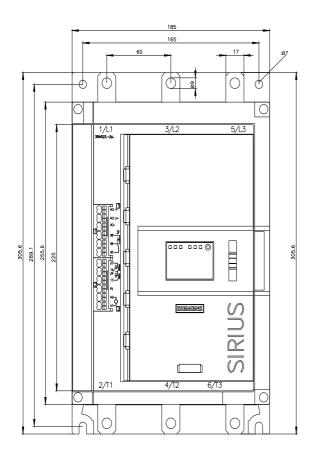
e at 40 °C during startup	1 512 \\
at 40 °C during startup	1 512 W
• at 50 °C during startup	1 291 W
• at 60 °C during startup	1 086 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance 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
inrush current by closing the bypass contacts 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	
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	306 mm
width	185 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	6.6 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
for DIN cable lug for main contacts stranded	2x (16 95 mm²)
• for DIN cable lug for main contacts finely stranded	2x (25 120 mm ²)
type of connectable conductor cross-sections	

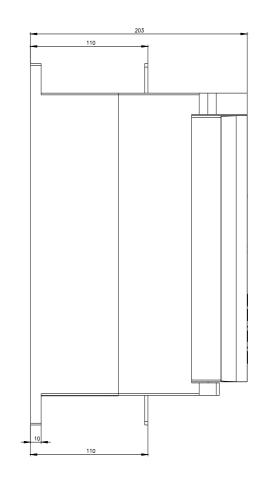
 for control circuit solid 	2x (0.25 1.5 mm²)			
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)			
 for AWG cables for control circuit solid 	2x (24 16)			
 for AWG cables for control circuit finely stranded with 	2x (24 16)			
core end processing				
wire length	200			
between soft starter and motor maximum	800 m			
at the digital inputs at AC maximum	100 m			
tightening torque	40 44 N			
for main contacts with screw-type terminals	10 14 N·m			
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m			
tightening torque [lbf·in]				
 for main contacts with screw-type terminals 	89 124 lbf·in			
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in			
terminals				
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature				
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 not get inside the devices), 1M4			
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint	21(2, 201, 201, 201, 2012 (max. fail fielding 0.5 m)			
	Siemens EcoTech			
Siemens Eco Profile (SEP) EMC emitted interference				
Communication/ Protocol	acc. to IEC 60947-4-2: Class A			
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 circuit breaker usable for Standard Faults				
	Sigmons type: $21/452$ may 250 A: $1a = 10$ kA			
- at 460/480 V according to UL	Siemens type: $3VA52$, max. 250 A; Iq = 10 kA Siemens type: $3VA52$, max. 250 A; Iq max = 65 kA			
- 60/480 V according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA			
 — at 460/480 V at inside-delta circuit according to UL 60/480 V at inside delta circuit according to UI 	Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq max = 65 kA			
 — 60/480 V at inside-delta circuit according to UL at 575/600 V according to UI 	Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA			
- at 575/600 V according to UL	Siemens type: $3VA52$, max. 250 A; Iq = 10 kA Siemens type: $3VA52$, max. 250 A; Iq = 10 kA			
 — at 575/600 V at inside-delta circuit according to UL of the fuse 	Siemens type: 3VA52, max. 250 A; lq = 10 kA			
 of the fuse — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 10 kA			
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 350 A; Iq = 100 kA			
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 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 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			
	00 Hp			
• at 460/480 V at inside-delta circuit at 50 °C rated value	125 hp			

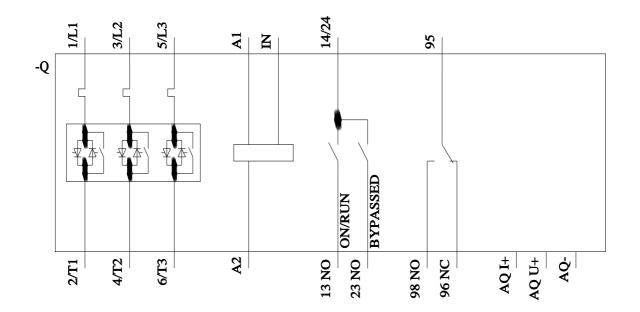
Electrical Safety						
protection class IP on th	a front according to	IEC 60529		IP20 with cover		
			,		t from the front with cover	
touch protection on the	front according to le	C 60529	linger	-sale, for vertical contac	t from the front with cover	
Approvals Certificates						
General Product Approv	val					
	UK CA			<u>Confirmation</u>	CE EG-Konf.	
General Product Ap- proval	EMV			Test Certificates	Marine / Shipping	
EAC	RCM	KC		Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping		other		Environment		
Llovd's Register us	PRS	<u>Confirmation</u>	n	Siemens EcoTech	EPD	Environmental Con- firmations
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Information Information Information 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=3RW5234-2AC14						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5234-2AC14						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-2AC14						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5234-2AC14⟨=en						
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Characteristic: Tripping https://support.industry.sie	emens.com/cs/ww/en/	ps/3RW5234-2AC14	4/char			
Characteristic: Installati			h 0 malfha	-2014/5224 24 04 04 48 abia	attura – 148 arish isuu-visuu	

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5234-2AC14&objecttype=14&gridview=view1

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







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