## SIEMENS

## Data sheet

## 3RW5516-3HA14



SIRIUS soft starter 200-480 V 32 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW55		
manufacturer's article number			
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>		
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>		
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>		
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>		
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>		
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>		
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>		
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1818-0; Type of coordination 2, Iq = 65 kA</u>		
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8022-1; Type of coordination 2, Iq = 65 kA</u>		
General technical data			
starting voltage [%]	20 100 %		
stopping voltage [%]	50 %; non-adjustable		
start-up ramp time of soft starter	0 360 s		
ramp-down time of soft starter	0 360 s		
start torque [%]	10 100 %		

starting voltage [%]	20 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 360 s			
ramp-down time of soft starter	0 360 s			
start torque [%]	10 100 %			
stopping torque [%]	10 100 %			
torque limitation [%]	20 200 %			
current limiting value [%] adjustable	125 800 %			
breakaway voltage [%] adjustable	40 100 %			
breakaway time adjustable	0 2 s			
number of parameter sets	3			
accuracy class	5 (based on IEC 61557-12)			
certificate of suitability				
CE marking	Yes			
UL approval	Yes			

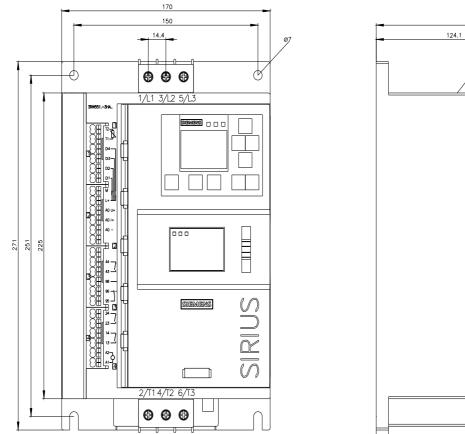
CSA approval	Yes		
product component			
HMI-High Feature	Yes		
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes		
product feature integrated bypass contact system	Yes		
number of controlled phases	3		
current unbalance limiting value [%]	10 60 %		
ground-fault monitoring limiting value [%]	10 95 %		
buffering time in the event of power failure			
<ul> <li>for main current circuit</li> </ul>	100 ms		
for control circuit	100 ms		
idle time adjustable	0 255 s		
insulation voltage rated value	480 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	1.15		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for protective separation			
between main and auxiliary circuit	480 V; does not apply for thermistor connection		
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting		
recovery time after overload trip adjustable	60 1 800 s		
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 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3 Diboron trioxide - 1303-86-2		
product function			
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes		
• ramp-down (soft stop)	Yes		
breakaway pulse	Yes		
adjustable current limitation	Yes		
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes		
• pump ramp down	Yes		
• DC braking	Yes		
motor heating	Yes		
slave pointer function	Yes		
trace function	Yes		
intrinsic device protection	Yes		
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.		
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick		
• inside-delta circuit	Yes		
auto-RESET	Yes		
manual RESET	Yes		
remote reset	Yes		
communication function	Yes		
<ul> <li>operating measured value display</li> </ul>	Yes		
• event list	Yes		
• error logbook	Yes		
via software parameterizable	Yes		
via software configurable	Yes		
screw terminal	No		
spring-loaded terminal	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules		
firmware update	Yes		

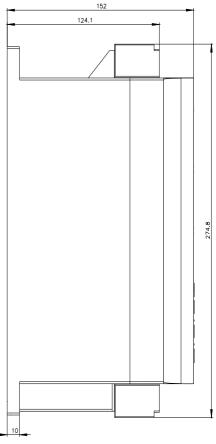
	Vec				
removable terminal for control circuit	Yes				
voltage ramp	Yes				
torque control	Yes				
combined braking	Yes				
analog output	Yes; 4 20 mA (default) / 0 10 V				
programmable control inputs/outputs	Yes				
condition monitoring	Yes				
automatic parameterisation	Yes				
<ul> <li>application wizards</li> <li>alternative run-down</li> </ul>	Yes Yes				
	Yes				
emergency operation mode	Yes				
reversing operation	Yes				
soft starting at heavy starting conditions Power Electronics	Tes				
operational current					
at 40 °C rated value	32 A				
at 40 °C rated value minimum	6.5 A				
at 50 °C rated value	0.5 A 28.4 A				
at 60 °C rated value	26.4 A 26 A				
operational current at inside-delta circuit					
at 40 °C rated value	55.4 A				
at 50 °C rated value	49 A				
at 50 °C rated value	45 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	-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	7.5 kW				
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	15 kW				
• at 400 V at 40 °C rated value	15 kW				
at 400 V at inside-delta circuit at 40 °C rated value	22 kW				
Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value	60 Hz				
relative negative tolerance of the operating frequency	10 % 10 %				
relative positive tolerance of the operating frequency	10 % 10 %; Relative to set le				
minimum load [%] power loss [W] for rated value of the current at AC	10 %, Relative to set le				
at 40 °C after startup	10 W				
• at 50 °C after startup	9 W				
• at 60 °C after startup	8 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	519 W				
• at 50 °C during startup	437 W				
• at 60 °C during startup	386 W				
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor				
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 %				

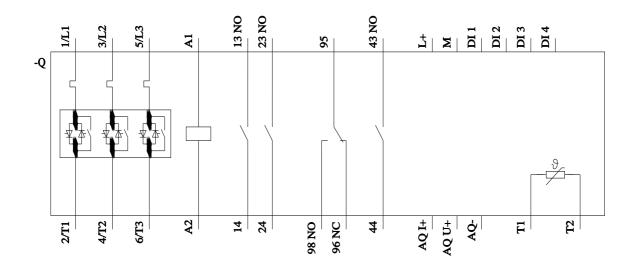
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %				
control supply voltage frequency	50 60 Hz				
relative negative tolerance of the control supply voltage frequency	-10 %				
relative positive tolerance of the control supply voltage frequency	10 %				
control supply current in standby mode rated value	100 mA				
holding current in bypass operation rated value	165 mA				
inrush current by closing the bypass contacts maximum	0.2 A				
inrush current peak at application of control supply voltage maximum	43 A				
duration of inrush current peak at application of control supply voltage	1.6 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	4				
parameterizable	4				
<ul> <li>number of digital outputs</li> </ul>	4				
<ul> <li>number of digital outputs parameterizable</li> </ul>	3				
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1				
digital output version	3 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				
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1A				
Installation/ mounting/ dimensions					
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)				
fastening method	screw fixing				
height	275 mm				
width	170 mm				
depth	152 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	2.6 kg				
Connections/ Terminals	2.0 kg				
type of electrical connection					
for main current circuit	screw-type terminals				
for main current circuit     for control circuit	spring-loaded terminals				
wire length for thermistor connection	Shund-nanch feililliais				
with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m				
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	50 m 150 m				
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m				
	200 111				
type of connectable conductor cross-sections					
for main contacts     solid	$2x(10, 25 \text{ mm}^2), 2x(25, 40 \text{ mm}^2)$				
— solid	$2x (1.0 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$				
— finely stranded with core end processing	2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )				
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections	0. (0.05 4.5 mm²)				
for control circuit solid	2x (0.25 1.5 mm <sup>2</sup> )				
• 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 core end processing     wire length	2x (24 16)				

<ul> <li>between soft starter and motor maximum</li> </ul>	800 m		
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m		
terminals			
tightening torque [lbf⋅in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	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			
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
<ul> <li>during storage according to IEC 60721</li> </ul>	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			
Siemens Eco Profile (SEP)	Siemens EcoTech		
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
<ul> <li>PROFINET high-feature</li> </ul>	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
<ul> <li>of circuit breaker usable for Standard Faults</li> </ul>			
- at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Ig = 5 kA		
— 60/480 V according to UL			
	Siemens type: 3RV2742, max.40 A or 3VA51, max, 60 A; Ig max = 65 kA		
° °	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
- at 460/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
<ul> <li>— at 460/480 V at inside-delta circuit according to UL</li> <li>— 60/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>— at 460/480 V at inside-delta circuit according to UL</li> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
<ul> <li>at 460/480 V at inside-delta circuit according to UL</li> <li>60/480 V at inside-delta circuit according to UL</li> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>at 460/480 V at inside-delta circuit according to UL</li> <li>60/480 V at inside-delta circuit according to UL</li> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
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<ul> <li>at 460/480 V at inside-delta circuit according to UL</li> <li>60/480 V at inside-delta circuit according to UL</li> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>according to UL</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Type: Class RK5 / K5, max. 125 A; lq = 5 kA Type: Class J / L, max. 125 A; lq = 100 kA Type: Class RK5 / K5, max. 125 A; lq = 5 kA Type: Class J / L, max. 125 A; lq = 100 kA Type: Class J / L, max. 125 A; lq = 100 kA		
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Safety Integrity Level to ATEX	I (SIL) according to IEC 615	08 relating SI	L1				
PFHD with high dema relating to ATEX	and rate according to IEC 6	1 <b>508</b> 5E	5E-7 1/h				
PFDavg with low den relating to ATEX	nand rate according to IEC	<b>61508</b> 0.0	0.008				
hardware fault tolera ATEX	nce according to IEC 61508	relating to 0	0				
T1 value for proof tes IEC 61508 relating to	st interval or service life acc ATEX	cording to 3 a	3 а				
certificate of suitabili	ity						
• ATEX		Ye	Yes				
<ul> <li>IECEx</li> </ul>		Ye	es				
<ul> <li>according to AT</li> </ul>	EX directive 2014/34/EU	B\	/S 18 ATEX F 003 X				
type of protection ac	cording to ATEX directive 2		2)G [Ex eb Gb] [Ex db Gb] [ x db Mb]	Ex pxb Gb], II (2)D [Ex tb	0 Db] [Ex pxb Db], I (M2)		
Approvals Certificates							
General Product App	proval						
	UK CA	CE EG-Konf.	<u>Confirmation</u>				
General Product Ap- proval	EMV		For use in hazardous	locations	Test Certificates		
EAC	RCM	KC	IECEx	K ATEX	<u>Type Test Certific-</u> ates/Test Report		
Marine / Shipping				other	Environment		
ABS	BUREAU VERITAS	Lloyd's Register urs	PRS	<u>Confirmation</u>	Siemens EcoTech		
Environment							
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Further information							
Information on the pa	ackaging /.siemens.com/cs/ww/en/view	//100812975					
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Image database (prod	duct images, 2D dimension	drawings, 3D mod	els, device circuit diagram	s, EPLAN macros,)			
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Simulation Tool for S https://support.industry	oft Starters (STS) /.siemens.com/cs/ww/en/view	<u>v/101494917</u>					







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