SIEMENS

Data sheet

3RW5516-3HF14



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

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</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 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1; Type of coordination 2, Iq = 65 kA</u>
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2036</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2036</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT2037</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT2037</u>
eneral 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 %
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	5 (based of field 01557-12)
• CE marking	Yes
UL approval	Yes
	Yes
CSA approval	Tes
 Product component HMI-High Feature 	Yes
	Yes
is supported HMI-High Feature product feature integrated hypers contact system	Yes
product feature integrated bypass contact system number of controlled phases	3
•	10 60 %
current unbalance limiting value [%]	10 95 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	100 mg
for main current circuit	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
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
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)	11/22/2019
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 Diboron trioxide - 1303-86-2 Lead titanium trioxide - 12060-00-3
Weight	3.202 kg
product function	
 ramp-up (soft starting) 	Yes
• ramp-down (soft stop)	Yes
 breakaway pulse 	Yes
adjustable current limitation	Yes
 creep speed in both directions of rotation 	Yes
• pump ramp down	Yes
DC braking	Yes
motor heating	Yes
• min/max pointer	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.
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
communication function	Yes
operating measured value display	Yes
event list	Yes
	100

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
 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
 application wizards 	Yes
 alternative run-down 	Yes
 emergency operation mode 	Yes
reversing operation	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	32 A
 at 40 °C rated value minimum 	6.5 A
 at 50 °C rated value 	28.4 A
 at 60 °C rated value 	26 A
operational current at inside-delta circuit	
 at 40 °C rated value 	55.4 A
• at 50 °C rated value	49 A
• at 60 °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 inside-delta circuit	-15 %
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
 at 230 V at inside-delta circuit at 40 °C rated value 	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 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• 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
with fail-safe	1
parameterizable	4
• parameterizable	- 4
 number of digital outputs 	3
Number of digital outputs with fail-safe	1
number of digital outputs parameterizable	2
number of digital outputs not parameterizable	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 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
Response times	
OFF-delay time with safety-related request when switched off	100 ms
via control inputs maximum	
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	
type of electrical connection	
type of electrical connection for main current circuit 	screw-type terminals
for main current circuit	screw-type terminals
 for main current circuit for control circuit 	screw-type terminals spring-loaded terminals
for main current circuit	

 will conductor cost section 1.5 mm² maximum will conductor cores sections for main controls for main controls for main controls for main control circuit sold for control controls with screw-type terminals for c				
Type of connectable conductor cross-sections • for main contrads •		150 m		
- orbit - orbit - first ystanded with core ond processing - first ystanded with core ond processing 2x (1.02.5 mm ²), 2x (2.510 mm ²) 2x (1.48) 2x (1.4	• with conductor cross-section = 2.5 mm ² maximum	250 m		
- Imply standard with core and processing 2 x (10, 2.5 mm ²) 2 x (14, 0) 2 (0.25, 1.5 mm ²) 2 x (0.2, 1.5 mm ²) 3 x (0.2, 1.5 mm ²) 4 x (0	 for main contacts 			
• for AWG tables for number direct stated 2x (16.–12), 2x (14.–8). Vipe of connectable conductor cross-sections 2x (0.251.5 mm²). • for control direct flexly standed with core end processing 2x (0.251.5 mm²). • for AWG cables for control direct stated 2x (0.251.5 mm²). • for AWG cables for control direct stated 2x (0.251.5 mm²). • for AWG cables for control direct stated 2x (0.251.5 mm²). • for AWG cables for control direct stated 2x (0.251.5 mm²). • for AWG cables for control direct stated 2x (0.251.5 mm²). • the digital inputs at DC maximum 800 m • for anality and control contacts with servery-type terminals 0	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)		
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• between soft starter and motor maximum • a the digital inputs at DC maximum 1000 m		2x (24 16)		
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terminals Imminals Fightening torque [IbFin] 18	 for main contacts with screw-type terminals 	2 2.5 N·m		
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Ambient conditions ambient condition attitude at height above sea level maximum 2 000 m; Derating as of 1000 m, see catalog ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above - during operation -26 +60 °C; Please observe derating at temperatures of 40 °C or above - during operation -26 +60 °C; Please observe derating at temperatures of 40 °C or above - during operation -26 +60 °C; Please observe derating at temperatures of 40 °C or above - during operation according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inis the devices), 5M4 - during transport according to IEC 60721 2K2 (20, 281, 2M2 (max. fail height 0.3 m) Environmental cooprint - Siemens Eco Profile (SEP) Siemens Eco Tech acc. to IEC 60947.4-2; Class A, Class B on request - Communication module is supported Yes • PROFINET high-feature Yes • Broor Numer S article number Yes • of circuit breaker usable for Standard Faults - - at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max, 100 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max, 100 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or	 for main contacts with screw-type terminals 	18 22 lbf-in		
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• during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) Environmental footprint Siemens Eco Profile (SEP) Siemens Eco Tech EMC emitted interference acc. to IEC 60947-4-2: Class A, Class B on request Communication Protocol communication module is supported Yes • PROFINET standard Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes ULCSA ratings Yes manufacturer's article number of circuit breaker usable for Standard Faults - at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq =				
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Siemens Eco Profile (SEP) Siemens EcoTech EMC emitted interference acc. to IEC 60947-4-2: Class A, Class B on request Communication module is supported exc. to IEC 60947-4-2: Class A, Class B on request Communication module is supported exc. to IEC 60947-4-2: Class A, Class B on request PROFINET high-feature Yes • PROFINET high-feature Yes • Modbus RTU Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA - at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA - at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA - at 675/600 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA - at 675/600 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA - at 675/600 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100				
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communication module is supported PROFINET standard Yes PROFINET high-feature PROFINET high-feature Yes etherNet/IP Yes etherNet/IP Yes Modbus RTU Yes Modbus RTU Yes Modbus RTOP Yes PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA – at 460/480 V according to UL 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 – at 575/600 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA – at 57/600 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A;				
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 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 125 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	7.5 hp
 at 220/230 V at 50 °C rated value 	10 hp
 at 460/480 V at 50 °C rated value 	20 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	15 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	15 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	30 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
safe state	Open load circuit
function test interval maximum	1 a
	1 000 s
diagnostics test interval by internal test function maximum	
stop category according to IEC 60204-1	0
B10d value	1 588 000
average diagnostic coverage level (DCavg)	90 %
MTTFd	39 a
IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	1
PFHD with high demand rate according to IEC 62061	1E-6 1/h
ISO 13849	
performance level (PL) according to ISO 13849-1	C
IEC 61508	
Safety Integrity Level (SIL)	
according to IEC 61508	SIL 1
safety device type according to IEC 61508-2	Туре В
PFHD with high demand rate according to IEC 61508	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
Safe failure fraction (SFF)	60 %
hardware fault tolerance according to IEC 61508	0
T1 value of service life according to IEC 61508	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
 according to ATEX directive 2014/34/EU 	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
Approvals Certificates	
General Product Approval	
σοποιαι Γιουμοι Αρμισται	

UK CA	CE EG-Konf.	<u>Confirmation</u>	CCC CCC		EHC
EMV		For use in hazardous I	ocations	Functional Saftey	Test Certificates
RCM	KC	KEX ATEX	IECE×	Type Examination Cer- tificate	Type Test Certific- ates/Test Report
Marine / Shipping				other	Environment
ABS	B U R E A U VERITAS	Llovdis Register uks	PRS	<u>Confirmation</u>	Siemens EcoTech
Environment					
EPD	Environmental Con- firmations				
	.siemens.com/cs/ww/en/vi				
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=3RW5516-3HF14					

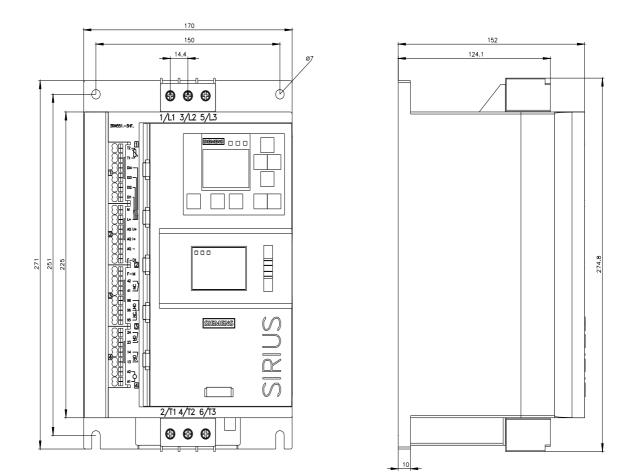
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5516-3HF14

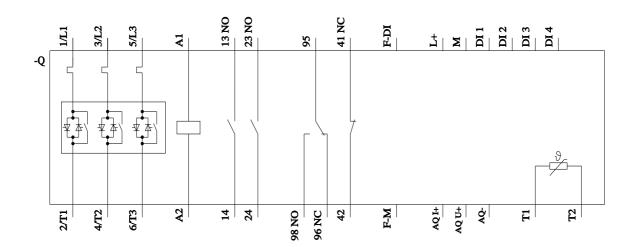
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
- https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HF14
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5516-3HF14&lang=en
- Characteristic: Tripping characteristics, I²t, Let-through current
- https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-3HF14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5516-3HF14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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





Pobrano z: https://falowniki-sklep.pl/softstart-sirius-15kw-200-480vac-3rw5516-3hf14-siemens