SIEMENS



3RW5515-1HF14

Data sheet



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC, Screw terminals Failsafe

Figure similar

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 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10: Type of coordination 1, Iq = 15 kA. CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3822-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8021-1: Type of coordination 2. Iq = 65 kA</u>
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2035</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2035</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT2036</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT2036</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 %

storming tormus F0/1	
stopping torque [%]	10 100 % 20 200 % 125 800 %
torque limitation [%]	
current limiting value [%] adjustable	
breakaway voltage [%] adjustable	40 100 //
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class according to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
_trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
 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 safe isolation	
 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
product function	
ramp-up (soft starting)	Yes
 ramp-down (soft stop) 	Yes
	Yes
breakaway pulse	
adjustable current limitation	Yes
• creep speed in both directions of rotation	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.
 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

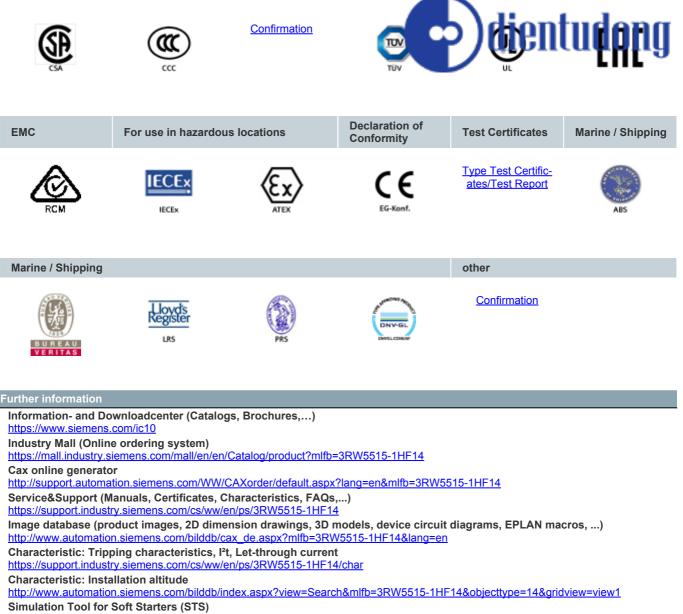
• error logbook	Yes Yes (CD) dientudong
• via software parameterizable	Yes
via software configurable	
screw terminal	Yes
spring-loaded terminal	
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
 firmware update 	Yes
 removable terminal for control 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	25 A
• at 40 °C rated value	
at 40 °C rated value minimum	5 A
• at 50 °C rated value	22.3 A
at 60 °C rated value	19.6 A
 operational current at inside-delta circuit at 40 °C rated value 	43.3 A
• at 50 °C rated value	43.5 A 39 A
at 60 °C rated value	33.9 A
operating voltage	55.8 A
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	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
• at 400 V at 40 °C rated value	11 kW
• at 400 V at inside-delta circuit at 40 °C rated value	18.5 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	
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	0.14/
• at 40 °C after startup	8 W
• at 50 °C after startup	7 W
• at 60 °C after startup	6 W
power loss [W] at AC at current limitation 350 %	264 W
• at 40 °C during startup	364 W 309 W
• at 50 °C during startup	
at 60 °C during startup type of the motor protection	262 W Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC

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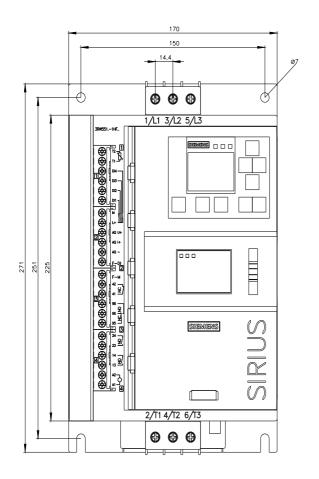
control supply voltage at AC	diantudana
• at 50 Hz	$(10 \dots 250 \vee 110 \dots 250 \vee (10 $
• at 60 Hz	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control 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
locked-rotor current at close of bypass contact 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
 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	400
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
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 152 mm
forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
• at the side	5 mm
weight without packaging	2.3 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
for control circuit	screw-type terminals

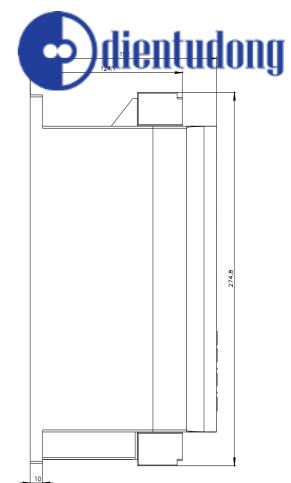
wite length for thermistor connection 90 m wite conductor cross-section = 1.6 mm? maximum 90 m vite conductor cross-section = 2.5 mm? naximum 90 m of crain conducts 2.5 mm? naximum - meld - meld - meld with conductor cross-sections - meld with cone end processing - meld with conductor cross-sections - meld with cone end processing - of crain circuit field - with conductor cross-sections - for main current circuit sold 1% (0.5 2.5 mm?) 2x (0.5 2.5 mm?) Vire length - to control circuit sold 1% (0.5 2.5 mm?) 2x (0.5 1.6 mm?) - of crain circuit sold 1% (20 1/2), 2x (20 1.6 mm?) 2x (10 2.5 mm?) - of crain circuit sold 1% (20 1/2), 2x (20 1.6 mm?) 2x (10 2.5 mm?) - of crain circuit sold 1% (20 1/2), 2x (20 1.6 mm?) 1% (20 1/2, 2x (20 1/2), 1/2 - of crain circuit sold 1% (20 1/2), 2x (20 1/2), 1/2 1% (20 1/2), 2x (20 1/2, 1/2 - of row availary and control control circuit sold 1% (20 1/2), 2x (20 1/2), 1/2 1% (20 1/2), 2x (20 1/2), 1/2 - of availary and control control circuit sold 1% (20 1/2), 2x (20 1/2), 1/2 1/2 - of av		
with conductor cross-sections for main contacts	wire length for thermistor connection	d'antudana
with conductor cross-sections for main contacts	 with conductor cross-section = 0.5 mm² maximum 	50 m
with conductor cross-sections for main contacts	 with conductor cross-section = 1.5 mm² maximum 	150 m
- for main contacts - esid - esid - finely stranded with core and processing - et AVKG cables for main current circuit sold 2x (10 2.5 mm?), 2x (2.5 10 mm?) 4x (20 12), 2x (20 14) wire length - effective cross-sections effective cross-sective cross-secrosective cross-sective cross-sective cro	 with conductor cross-section = 2.5 mm² maximum 	
 - sold 2x (1.02.5 mm²), 2x (2.510 mm²) 2x (1.02.5 mm²), 2x (2.56.0 mm²) 2x (1.02.5 mm²), 2x (2.56.0 mm²) 2x (1.02.5 mm²), 2x (2.515 mm²) 2x (1.0	type of connectable conductor cross-sections	
- Inely stranded with core end processing 2x (1 0 2.5 mm?) 2x (2.5 6.0 mm?) type of connectable conductor cross-sections 1x (0.5 4.0 mm?) 2x (0.5 2.5 mm?) i for control circuit level stranded with core end processing 1x (0.5 4.0 mm?) 2x (0.5 1.5 mm?) i for control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 1.5 mm?) i for data control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 1.5 mm?) i for data control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 1.5 mm?) i for data control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 1.5 mm?) i for data control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 4.5 mm?) i for data control circuit solid 1x (0.5 4.0 mm?) 2x (0.5 4.5 mm?) i for data control circuit solid 1x (2.0 12, 1x (1.1 m) i for data controls of solid solid socid so	 for main contacts 	
	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
type of connectable conductor cross-sections is for control circuit solid is (0.54.0 mm²), 2x (0.52.5 mm²) is for control circuit solid ix (0.54.0 mm²), 2x (0.51.5 mm²) ix (0.54.0 mm²), 2x (0.51.5 mm²) is for control circuit solid ix (0.51.2 sm²), 2x (0.51.5 mm²) ix (0.51.5 mm²) is for solid circuit solid ix (0.51.2 sm²), 2x (0.51.5 mm²) ix (0.51.5 mm²) is for solid circuit solid ix (0.51.2 sm²), 2x (0.51.5 mm²) ix (0.51.2 sm²), 2x (0.51.5 mm²) is for solid circuit solid ix (0.51.2 sm²), 2x (0.51.2 sm²), 2x (0.51.5 mm²) ix (0.51.2 sm²), 2x (0.51.5 mm²) is for solid solid control contacts with screw-type terminals is for solid solid solid control contacts with screw-type terminals is for solid sol	 — finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
in for control circuit solid ix (0.5 2.5 mm²), 2x (0.5 2.5 mm²) i at AVG cables for control circuit solid ix (0.5 2.5 mm²), 2x (0.5 1.5 mm²) i at AVG cables for control circuit solid ix (0.5 2.5 mm²), 2x (0.5 1.5 mm²) i at AvG cables for control circuit solid ix (2.0 14) i at AvG galai inputs at CC maximum 800 m i at the digital inputs at CC maximum 800 m i of main contacts with screw-type terminals 6 12 N m i for main contacts with screw-type terminals 6 12 N m i for main contacts with screw-type terminals 7 10 3 lbfin i for main contacts with screw-type terminals 7 10 3 lbfin i for main contacts with screw-type terminals 7 10 3 lbfin i for main contacts with screw-type terminals 18 22 lbfin i for main contacts with screw-type terminals 7 10 3 lbfin i during storage and transport 40	 at AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)
	type of connectable conductor cross-sections	
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		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
wire length • between soft stater and motor maximum 800 m • at the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 18 22 bFin • for auxiliary and control contacts with screw-type terminals 18 22 bFin • for auxiliary and control contacts with screw-type terminals 18 22 bFin • for auxiliary and control contacts with screw-type terminals 18		
• box 600 m • a the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 2		1x (20 12), 2x (20 14)
	-	
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		0.051
terminals tightening torque (lbr/in) • for 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 termperature • during operation • during operation • during operation • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • of circuit breaker • usable for Standard Faults at 460/480 V according to UL • usable for Standard Faults at 460/480 V at cording to UL • usable for Standard Faults at 460/480 V at cording to UL • usable for St		
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• for main contacts with screw-type terminals 18 22 lbf in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf in Ambient conditions 2 000 m; Derating as of 1000 m, see catalog Installation altitude 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 -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during storage according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Communication module is supported Yes • PROFINET standard Yes • PROFINET standard Yes • Modbus RTU Yes • Of circuit breaker Yes - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80		
		18 22 lbf.in
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delta circuit according to UL — usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
		Siemens type: 3VA51, max. 60 A; lq max = 65 kA

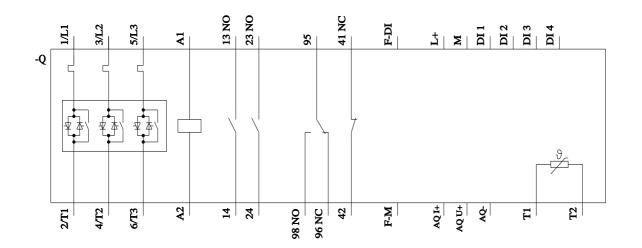
 of the fuse 	d'antudana
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / nax. 10 A GIANUUODO
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, ma. A; /4 = 100 kA
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 100 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	5 hp
 at 220/230 V at 50 °C rated value 	7.5 hp
 at 460/480 V at 50 °C rated value 	15 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	10 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	10 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Туре В
B10d value	1 588 000
Safety Integrity Level (SIL)	
 according to IEC 61508 	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	C
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	60 %
average diagnostic coverage level (DCavg)	90 %
diagnostics test interval by internal test function maximum	1 000 s
PFHD with high demand rate according to EN 62061	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 у
safe state	Open load circuit
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
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
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]
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 s
Certificates/ approvals	
General Product Approval	



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