SIEMENS

Data sheet

3RW5536-2HA06



SIRIUS soft starter 200-690 V 171 A, 24 V AC/DC spring-type terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
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 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1230-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3334-0B; 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

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
 is supported HMI-High Feature 	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	
 for main current circuit 	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	690 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
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 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 Lead titanium trioxide - 12060-00-3 N,N-dimethylacetamide - 127-19-5
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
 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)
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes; Only up to 600 V operating voltage
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
 communication function 	Yes
 operating measured value display 	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			
removable terminal for control circuit	Yes			
voltage ramp	Yes			
torque control	Yes			
combined braking	Yes			
analog output				
programmable control inputs/outputs	Yes; 4 20 mA (default) / 0 10 V Yes			
condition monitoring	Yes			
automatic parameterisation	Yes			
application wizards	Yes			
alternative run-down	Yes			
	Yes			
emergency operation mode	Yes			
reversing operation				
soft starting at heavy starting conditions Power Electronics	Yes			
operational current				
at 40 °C rated value	171 A			
• at 40 °C rated value minimum	34 A			
at 50 °C rated value	153 A			
• at 60 °C rated value	141 A			
operational current at inside-delta circuit				
at 40 °C rated value	296 A			
at 40 °C rated value at 50 °C rated value	296 A 265 A			
at 50 °C rated value at 60 °C rated value	205 A 244 A			
	244 A			
operating voltage rated value 	200 690 V			
at inside-delta circuit rated value	200 690 V 200 600 V			
	-15 %			
relative negative tolerance of the operating voltage	10 %			
relative positive tolerance of the operating voltage	-15 %			
relative negative tolerance of the operating voltage at inside-delta circuit	- 10 %			
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 	45 kW			
 at 230 V at inside-delta circuit at 40 °C rated value 	90 kW			
• at 400 V at 40 °C rated value	90 kW			
 at 400 V at inside-delta circuit at 40 °C rated value 	160 kW			
 at 500 V at 40 °C rated value 	110 kW			
 at 500 V at inside-delta circuit at 40 °C rated value 	200 kW			
● at 690 V at 40 °C rated value	160 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	51 W			
• at 50 °C after startup	46 W			
• at 60 °C after startup	42 W			
power loss [W] at AC at current limitation 350 %				
 at 40 °C during startup 	2 393 W			
• at 50 °C during startup	2 038 W			
• at 60 °C during startup	1 814 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/DC			
control supply voltage at AC				
at 50 Hz rated value	24 V			
• at 60 Hz rated value	24 V			
relative negative tolerance of the control supply voltage at	-20 %			

AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 voltage at DC	
rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	870 mA
inrush current by closing the bypass contacts maximum	6.3 A
inrush current peak at application of control supply voltage	7.5 A
maximum duration of inrush current peak at application of control supply	20 ms
voltage	
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
 number of digital outputs 	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable	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
at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
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	9.1 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
with or connection bar maximum	
with conductor cross-section = 0.5 mm ² maximum	50 m
with conductor cross-section = 0.5 mm ² maximum with conductor cross-section = 1.5 mm ² maximum	150 m
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	250 m
■ WITH CONDUCTOR CLOSS-SECTION = 2.5 IIIIII* III2XIIIIUIII	
type of connectable conductor cross-sections	

for DIN askie by f	0 (40			
for DIN cable lug for main contacts stranded	2x (16 95 mm ²)			
for DIN cable lug for main contacts finely stranded	2x (25 120 mm²)			
type of connectable conductor cross-sections				
for control circuit solid	2x (0.25 1.5 mm ²)			
for control circuit finely stranded with core end processing	2x (0.25 1.5 mm ²)			
for AWG cables for control circuit solid	2x (24 16)			
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at DC maximum 	1 000 m			
tightening torque				
 for main contacts with screw-type terminals 	10 14 N·m			
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m			
terminals				
tightening torque [lbf·in]				
 for main contacts with screw-type terminals 	89 124 lbf·in			
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 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 operation	-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				
Siemens Eco Profile (SEP)	Siemens EcoTech			
EMC emitted interference	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol				
communication module is supported				
 PROFINET standard 	Yes			
 PROFINET high-feature 	Yes			
EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
Modbus TCP PROFIBUS	Yes Yes			
• PROFIBUS				
PROFIBUS UL/CSA ratings				
PROFIBUS UL/CSA ratings manufacturer's article number				
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults	Yes			
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL	Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA			
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL	Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA			
PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL — at 460/480 V at inside-delta circuit according to UL	Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA			
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PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults	Yes Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq max = 65 kA Siemens type: $3VA52$, max. 250 A; lq = 10 kA Siemens type: $3VA52$, max. 250 A; lq max = 65 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 Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA			
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• at 460/480 V at 50) °C rated value		100 hp			
• at 575/600 V at 50 °C rated value		150 hp				
• at 200/208 V at inside-delta circuit at 50 °C rated value			75 hp			
• at 220/230 V at inside-delta circuit at 50 °C rated value			100 hp			
• at 460/480 V at in	• at 460/480 V at inside-delta circuit at 50 °C rated value					
• at 575/600 V at in	side-delta circuit at 50 °0	C rated value	200 hp 250 hp			
contact rating of auxili	ary contacts according	g to UL	R300-B300			
Electrical Safety						
protection class IP on	the front according to	IEC 60529	IP00; IP20 with cover			
touch protection on the	e front according to IE	C 60529	finger-safe, for vertical cont	tact from the front with cover		
ATEX						
Safety Integrity Level (to ATEX	SIL) according to IEC 6	61508 relating	SIL1			
PFHD with high deman relating to ATEX	d rate according to IE	C 61508	5E-7 1/h			
PFDavg with low dema relating to ATEX	nd rate according to IE	EC 61508	0.008			
hardware fault tolerand ATEX	ce according to IEC 61	508 relating to	0			
T1 value for proof test IEC 61508 relating to A		according to	3 а			
certificate of suitability						
• ATEX			Yes			
• IECEx			Yes			
according to ATE	X directive 2014/34/EU		BVS 18 ATEX F 003 X			
type of protection acco	ording to ATEX directiv	ve 2014/34/EU	II (2)G [Ex eb Gb] [Ex db G	b] [Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2)	
			[Ex db Mb]			
Approvals Certificates						
General Product Appro	oval					
UK CA	<u>Confirmation</u>	CE EG-Konf.			EHC	
EMV		For use in haz	ardous locations	Test Certificates	Marine / Shipping	
-						
	KC	IECEX	ATEX ATEX	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping			other	Environment		
B U REAU VERITAS	Lloyd's Register uis	PRS	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						
Environmental Con- firmations						
Further 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=3RW5536-2HA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5536-2HA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5536-2HA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5536-2HA06&lang=en

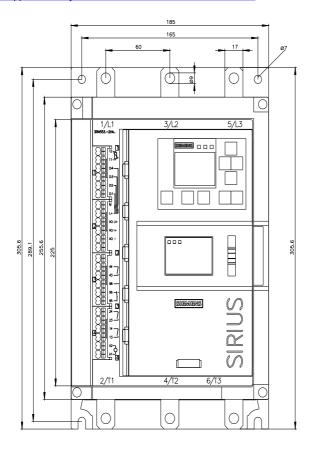
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5536-2HA06/char

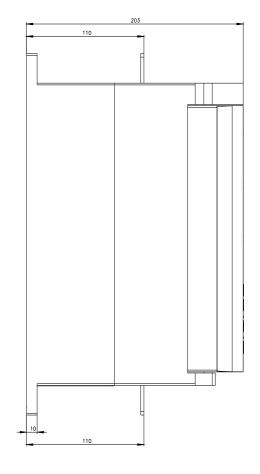
Characteristic: Installation altitude

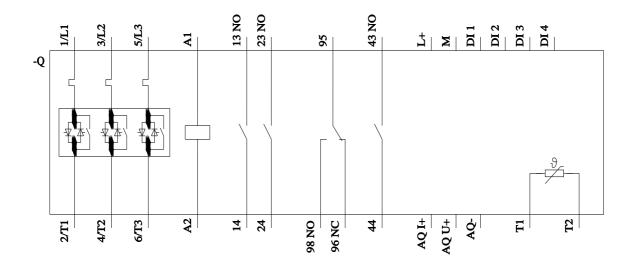
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5536-2HA06&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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