SIEMENS

Data sheet

3RW5556-6HA06



SIRIUS soft starter 200-690 V 1100 A, 24 V AC/DC Screw terminals

Figure similar

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 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2716-7AB05-0AA0: Type of coordination 1. Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NB3354-1KK26: Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3x3NE3340-8; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
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 acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
 CSA approval 	Yes

product component	N .
• 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 %
recovery time after overload trip adjustable	60 1 800 s
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 safe isolation	
 between main and auxiliary circuit 	690 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
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
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	11.02.2019 00:00:00
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	Yes
 spring-type terminal 	No
• PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
 firmware update 	Yes
 firmware update removable terminal for control circuit 	Yes Yes

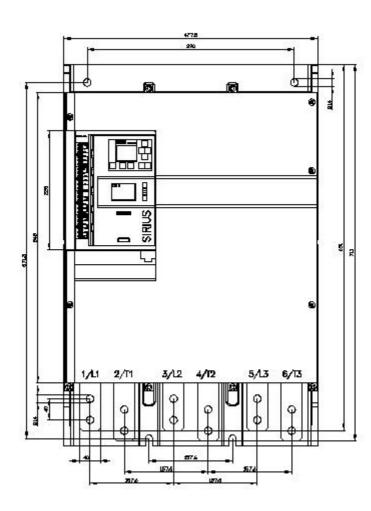
 combined braking 	Yes
 analog output 	Yes; 4 20 mA (default) / 0 10 V
 programmable control inputs/outputs 	Yes
 condition monitoring 	Yes
 automatic parameterisation 	Yes
 application wizards 	Yes
 alternative run-down 	Yes
 emergency operation mode 	Yes
reversing operation	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	1 100 A
 at 40 °C rated value minimum 	220 A
 at 50 °C rated value 	979 A
• at 60 °C rated value	890 A
operational current at inside-delta circuit	
• at 40 °C rated value	1 905 A
• at 50 °C rated value	1 695 A
at 60 °C rated value	1 541 A
operating voltage	
rated value	200 690 V
at inside-delta circuit rated value	200 690 V 200 600 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 	315 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	560 kW
 at 400 V at 40 °C rated value 	560 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	1 000 kW
 at 500 V at 40 °C rated value 	710 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	1 200 kW
 at 690 V at 40 °C rated value 	1 000 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 	330 W
• at 50 °C after startup	270 W
• at 60 °C after startup	223 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	18 502 W
• at 50 °C during startup	15 568 W
• at 60 °C during startup	13 552 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	-20 %
voltage at AC at 50 Hz	
relative positive tolerance of the control supply	20 %

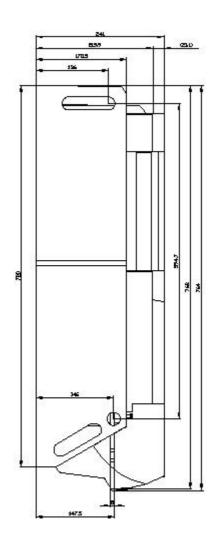
voltage at AC at 50 Hz	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative 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	1 100 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	4
number of digital outputs 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	
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	
	Vartical (can be retated 1/ 00° and tilted forward or backward 1/ 22.5°)
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method height	screw fixing 764 mm
width	478 mm
	241 mm
	271 11111
forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	61 kg
Connections/ Terminals	
type of electrical connection	
tor main current circuit	DUSDAR CONDECTION
for main current circuit for control circuit	busbar connection
for control circuit	screw-type terminals
for control circuit width of connection bar maximum	
for control circuit	screw-type terminals

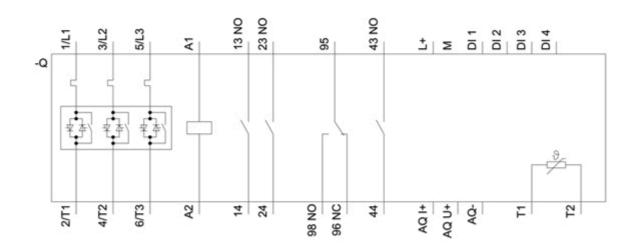
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 for DIN cable log for main contacts finely standed for DIN cable log for main contacts finely standed zx (70 240 mm²) zx (70 240 mm²)	• with conductor cross-section = 2.5 mm ² maximum	250 m
	type of connectable conductor cross-sections	
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• berveen soft statter and motor maximum 800 m • at the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 20 35 N m • for auxiliary and control contracts with screw-type 0 12 N m • tor auxiliary and control contracts with screw-type 177 310 lbf in • tor auxiliary and control contracts with screw-type 7 10.3 lbf in • tor auxiliary and control contracts with screw-type 7 10.3 lbf in • tor auxiliary and control contracts with screw-type 7 10.3 lbf in • during operation 2.000 m; Derating as of 1000 m, see catalog • altitation attude at height above sea level maximum 2.000 m; Derating as of 1000 m, see catalog • altitude at height above sea level maximum 2.000 m; Derating as of 1000 m, see catalog • during storage and transport -40 +80 °C • during storage act, to IEC 60721 3KG (no lee formation, only occasional condensation), 3C3 (no salt mist), 152 (sand must not get into the devices), 3M • during storage act, to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • EC ontruther thore ec to IEC 60927.4.2; Class A Communication module is supported Yes • PROFINET standard Yes <td></td> <td>TA (20 12), 2A (20 14)</td>		TA (20 12), 2A (20 14)
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• during storage acc. to IEC 60721 mist), 352 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • demunication / Protocol acc. to IEC 60947-4-2: Class A Communication module is supported • PROFINET standard • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • OrbFINET standard Yes • PROFIBUS Yes • DROFIBUS Yes • adde for Standard Faults up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V Type: Class J / L, max. 3000 A; Iq = 85 kA • according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class J / L, max. 3000 A; Iq = 100 kA • at 200/28 V		3K6 (no ice formation, only occasional condensation), 3C3 (no salt
• during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fail height 0.3 m) 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 • PROFINET standard Faults up to 575/600 V Yes • Of the fuse - - usable for Standard Faults up to 575/600 V Type: Class J / L, max. 3000 A; Iq = 85 kA circuit up to 575/600 V according to UL - - usable for High Faults at inside-delta circuit up to 575/600 V Type: Class J / L, max. 3000 A; Iq = 85 kA ruit up to 575/600 V according to UL Type: Class J / L, max. 3000 A; Iq = 100 kA - usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class J / L, max. 3000 A; Iq = 100 kA operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value 350 hp • at 200/208 V at 50 °C rated value 850 hp 1100 hp • at 200/208 V at 50 °C rated value 600 hp 600 hp		
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UL/CSA ratings manufacturer's article number • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class J / L, max. 3000 A; Iq = 85 kA Type: Class J / L, max. 3000 A; Iq = 100 kA to 575/600 V according to UL Operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value	 PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU 	Yes Yes Yes
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value	 PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
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• at 220/230 V at inside-deita circuit at 50 °C rated 700 hp	 PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for J of 3-phase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value at 200/208 V at 50 °C rated value 	Yes Yes Yes Yes Yes Type: Class J / L, max. 3000 A; lq = 85 kA Type: Class J / L, max. 3000 A; lq = 100 kA Type: Class J / L, max. 3000 A; lq = 85 kA Type: Class J / L, max. 3000 A; lq = 100 kA 350 hp 400 hp 850 hp 1 100 hp
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value					
● at 460/480 V at value	t inside-delta circuit at t	50 °C rated	1 500 hp		
 at 575/600 V at inside-delta circuit at 50 °C rated value 		1 900 hp			
contact rating of auxiliary contacts according to UL		R300-B300			
Safety related data	,,				
	on the front acc. to IE	C 60529	IP00		
electromagnetic cor		0 00323	acc. to IEC 60947-4-2		
ATEX	inpationity		acc. 10 TEC 00947-4-2		
	14				
certificate of suitabi	lity				
	• ATEX		Yes		
• IECEx			Yes		
	TEX directive 2014/34/		BVS 18 ATEX F 003 X		
type of protection a 2014/34/EU	ccording to ATEX dire	ective	II (2)G [Ex eb Gb] [Ex db G I (M2) [Ex db Mb]	b] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db],
hardware fault tolera	ance acc. to IEC 6150	8 relating to	0		
PFDavg with low de relating to ATEX	mand rate acc. to IEC	61508	0.008		
PFHD with high dem to ATEX	nand rate acc. to EN 6	62061 relating	0.0000005 1/h		
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Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5556-6HA06&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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