SIEMENS

Data sheet

3RW55552-6HA06



SIRIUS soft starter 200-690 V 630 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 	3VA2580-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	3VA2580-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NB3350-1KK26: Type of coordination 2. Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NC3343-1U; Type of coordination 2, Iq = 65 kA</u>			
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
5	
 UL approval CSA approval 	Yes
product component	Vee
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 10 60 %
current unbalance limiting value [%]	10 95 %
ground-fault monitoring limiting value [%] recovery time after overload trip adjustable	60 1 800 s
	00 1 000 S
 buffering time in the event of power failure for main current circuit 	100 ms
for control circuit	100 ms
	0 255 s
idle time adjustable	
insulation voltage rated value degree of pollution	690 V 3, acc. to IEC 60947-4-2
impulse voltage rated value	3, acc. to fee 60947-4-2 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	11.02.2010 00.00.00
• 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

<i>6</i>	Ver
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 	630 A
 at 40 °C rated value minimum 	126 A
 at 50 °C rated value 	561 A
● at 60 °C rated value	510 A
operational current at inside-delta circuit	
• at 40 °C rated value	1 091 A
• at 50 °C rated value	972 A
• at 60 °C rated value	883 A
operating voltage	
 rated value 	200 690 V
at inside-delta circuit rated value	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 negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	-15 % 10 %
inside-delta circuit relative positive tolerance of the operating voltage at	
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors	10 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value	10 % 200 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	10 % 200 kW 355 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value	10 % 200 kW 355 kW 355 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW 400 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at inside-delta circuit at 40 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 60 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 60 °C rated value • at 690 °C rated value	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 60 °C rated value • at 690 V at	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 90 °C rated value • at 690 V at	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % Relative to set le
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 %	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le 189 W 135 W 108 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C after startup • at 40 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup • at 50 °C during startup • at 50 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W 7 123 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C differ startup • at 60 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W 7 123 W Electronic, tripping in the event of thermal overload of the motor
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup • a	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W 7 123 W
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup	10 % 200 kW 355 kW 355 kW 630 kW 400 kW 710 kW 630 kW 50 Hz 60 Hz -10 % 10 % 10 % 10 %; Relative to set le 189 W 135 W 108 W 9 538 W 8 115 W 7 123 W Electronic, tripping in the event of thermal overload of the motor

• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
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	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
	4 4
number of digital inputs	
• parameterizable	4
number of digital inputs parameterizable number of inputs for thermistor connection	4 1; Type A PTC or Klixon / Thermoclick
number of digital inputs parameterizable number of inputs for thermistor connection number of digital outputs 	4 1; Type A PTC or Klixon / Thermoclick 4
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs	4 1; Type A PTC or Klixon / Thermoclick 4 3
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable	4 1; Type A PTC or Klixon / Thermoclick 4 3 1
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • upwards	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting oforwards ownwards odownwards odownwards	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 5 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • at the side weight without packaging Connections/ Terminals	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • at the side weight without packaging Connections/ Terminals type of electrical connection	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 5 mm 5 mm 45 kg
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • at the side weight without packaging Connections/ Terminals	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm

width of connection bar maximum	55 mm				
wire length for thermistor connection					
 with conductor cross-section = 0.5 mm² maximum 	50 m				
 with conductor cross-section = 1.5 mm² maximum 	150 m				
 with conductor cross-section = 2.5 mm² maximum 	250 m				
type of connectable conductor cross-sections					
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)				
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm ²)				
type of connectable conductor cross-sections					
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
processing					
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)				
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 	20 35 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 	177 310 lbf·in				
• for auxiliary and control contacts with screw-type	7 10.3 lbf·in				
terminals					
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 storage and transport 	-40 +80 °C				
environmental category					
• during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4				
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall 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				
PROFIBUS	Yes				
UL/CSA ratings					
manufacturer's article number					
of the fuse					
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 2000 A; Iq = 42 kA				
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 2000 A; Iq = 100 kA				
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 2000 A; Iq = 42 kA				
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 2000 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
at 200/208 V at 50 °C rated value	200 hp				
 at 220/230 V at 50 °C rated value 	200 hp				
 at 460/480 V at 50 °C rated value 	450 hp				

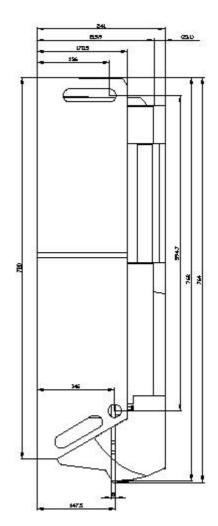
	50 °C rated value		600 hp				
● at 200/208 V at value	inside-delta circuit at 5	0 °C rated	350 ł	ıp			
 at 220/230 V at inside-delta circuit at 50 °C rated value 				ıp			
 • at 460/480 V at inside-delta circuit at 50 °C rated value 				ıp			
	inside-delta circuit at 5	i0 °C rated	1 050) hp			
contact rating of au	kiliary contacts accor	ding to UL	R300	-B300			
Safety related data							
protection class IP of	on the front acc. to IE	C 60529	IP00				
electromagnetic cor	npatibility		acc.	to IEC 60947-4-2			
ATEX							
certificate of suitabi	lity						
 ATEX 			Yes				
 IECEx 			Yes				
 according to AT 	EX directive 2014/34/E	EU	BVS	18 ATEX F 003 X			
type of protection according to ATEX directive 2014/34/EU				G [Ex eb Gb] [Ex d) [Ex db Mb]	b Gb] [Ex pxb Gb], II (2)D [E>	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	}			
to ATEX	nand rate acc. to EN 6		_	00005 1/h			
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating	SIL1				
T1 value for proof te IEC 61508 relating to	est interval or service ATEX	life acc. to	3 у				
Certificates/ approval	S						
General Product Ap	proval				EMC		For use in hazard- ous locations
		~			~		
		(hr L		EHC	RCI	<u>ک</u>	IECEx
For use in hazard- ous locations	Declaration of Conformity	Test Certific	ates	Marine / Shippi	ng		other
K ATEX	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	Lloy Rege	ds	<u>Confirmation</u>
Further information	wnloadcenter (Catalo	as Brochures		_	_		
https://www.siemens. Industry Mall (Online https://mall.industry.si	<u>com/ic10</u> e ordering system) iemens.com/mall/en/en	- · · ·		<u>3RW5552-6HA06</u>			
	tion.siemens.com/WW/				<u>W5552-6HA06</u>		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RW5552-6HA06</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation	n.siemens.com/bilddb/c	cax_de.aspx?ml	fb=3RW	5552-6HA06⟨		PLAN mac	ros,)
Unaracteristic: Tripp	ping characteristics, l ^a	-ι, Let-tnrough	current				

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5552-6HA06/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5552-6HA06&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

6778 270 φ Ē di. 1 ŝ SIRIUS Ŀ ž 5 5 1 1/1 2/11 3/12 4/12 5/13 6/13 9 q φ G φ IF7/ 17.





last modified:

3/9/2021 🖸