SIEMENS

Data sheet

3RW5553-2HA06



SIRIUS soft starter 200-690 V 720 A, 24 V AC/DC Spring-type 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 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>		
 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>3NB3351-1KK26; 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 %		

elemanian Yes • UL approval Yes • CSA approval Yes • Product component Yes • MM-High Feature Yes • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • Corrent circuit ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Fe	certificate of suitability	_
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motor heatingYesslave pointer functionYestrace functionYesintrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYescommunication functionYesevent listYeserror logbookYesvia software parameterizableYesvia software configurableYesscrew terminalNoespring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
slave pointer functionYestrace functionYesintrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYesoperating measured value displayYeserror logbookYesvia software parameterizableYesvia software configurableYesexerw terminalNoespring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	5	
• trace functionYes• intrinsic device protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	-	
intrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYescommunication functionYesoperating measured value displayYesevent listYesvia software parameterizableYesvia software configurableYesscrew terminalNospring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	•	Yes; Full motor protection (thermistor motor protection and electronic
• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	 evaluation of thermistor motor protection 	
• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
 remote reset remote reset communication function operating measured value display operating measured value display ves event list error logbook via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	auto-RESET	
 communication function yes operating measured value display event list event list Yes error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	manual RESET	Yes
• operating measured value displayYes• event listYes• error logbookYes• ria software parameterizableYes• via software configurableYes• sorew terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	remote reset	Yes
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• via software configurableYes• screw terminalNo• spring-type terminalYes• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 communication function 	Yes
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• via software configurableYes• screw terminalNo• spring-type terminalYes• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 operating measured value display 	Yes
 via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 		Yes
 via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	error logbook	Yes
 via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	0	
 screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 		Yes
• PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High-	_	No
• PROFINErgy Yes; in connection with the PROFINET Standard and PROFINET High-	 spring-type terminal 	Yes
		Yes; in connection with the PROFINET Standard and PROFINET High-

<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 	720 A				
 at 40 °C rated value minimum 	144 A				
 at 50 °C rated value 	641 A				
● at 60 °C rated value	580 A				
operational current at inside-delta circuit					
• at 40 °C rated value	1 247 A				
● at 50 °C rated value	1 110 A				
• at 60 °C rated value	1 005 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 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	10 % 200 kW 400 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	10 % 200 kW 400 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	10 % 200 kW 400 kW 400 kW 710 kW 500 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	10 % 200 kW 400 kW 400 kW 710 kW 500 kW 800 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 400 kW 400 kW 710 kW 500 kW 800 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 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 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 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 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 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 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 400 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 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 400 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 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 at 0 °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 400 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le 216 W 170 W 139 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 400 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 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 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 • at 60 °C after startup • at 60 °C during startup • at 50 °C during startup • at 50 °C during startup	10 % 200 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 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 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 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 • at 50 °C during startup • at 60 °C during startup	10 % 200 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 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 inside-delta circuit 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 • at 6	10 % 200 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 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 • at 50 °C during startup • at 60 °C during startup	10 % 200 kW 400 kW 400 kW 710 kW 500 kW 800 kW 710 kW 50 Hz 60 Hz -10 % 10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor				

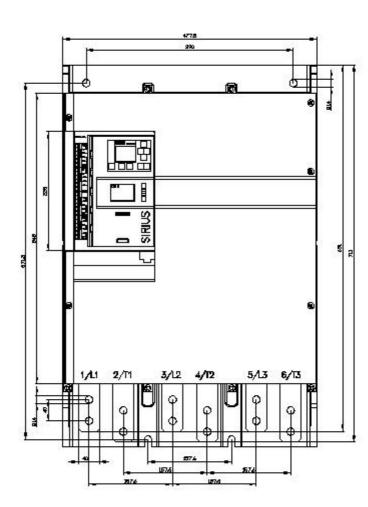
at 60 Hz rated value	24 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %			
relative positive tolerance 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				
Inputs/ Outputs number of digital inputs	4			
	4 4			
number of digital inputs				
number of digital inputs parameterizable number of inputs for thermistor connection	4			
number of digital inputsparameterizable	4 1; Type A PTC or Klixon / Thermoclick			
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			
number of digital inputs parameterizable number of inputs for thermistor connection 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 • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not 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 • 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	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			
number of digital inputs • parameterizable number of inputs for thermistor connection • number of digital outputs • number of digital outputs parameterizable • 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	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	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 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°)			
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	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 • forwards • backwards • upwards • at the side	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 • 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			

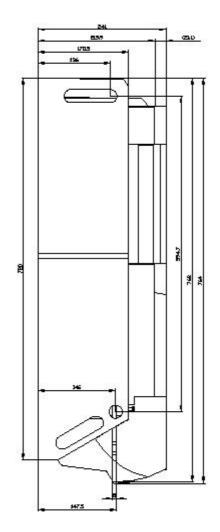
width of connection bar maximum	55 mm				
wire length for thermistor connection					
 with conductor cross-section = 0.5 mm² maximum 	50 m				
• with conductor cross-section = 1.5 mm ² maximum	50 m				
• with conductor cross-section = 2.5 mm ² maximum	250 m				
type of connectable conductor cross-sections	200 m				
for DIN cable lug for main contacts stranded	2x (50 240 mm²)				
 for DIN cable lug for main contacts finely stranded 	2x (50 240 mm ⁻) 2x (70 240 mm ²)				
type of connectable conductor cross-sections	ZA (70 240 HIIII)				
for control circuit solid	2x (0.25 1.5 mm²)				
 for control circuit finely stranded with core end 	2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²)				
processing	24 (0.20 1.0 11111)				
 at AWG cables for control circuit solid 	2x (24 16)				
 at 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 	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; Iq = 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	250 hp				

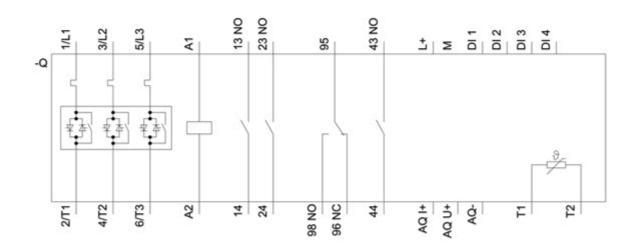
• at 460/480 V at	50 °C rated value		500 l	ηp		
• at 575/600 V at	50 °C rated value		700 ł	ηp		
• at 200/208 V at value	inside-delta circuit at 5	0 °C rated	400 l	ıp		
● at 220/230 V at value	inside-delta circuit at 5	0 °C rated	450 l	ıp		
● at 460/480 V at value	inside-delta circuit at 5	0 °C rated	950 l	ıp		
	inside-delta circuit at 5	0 °C rated	1 250) hp		
contact rating of aux	iliary contacts accord	ding to UL	R300)-B300		
Safety related data		Ū				
	on the front acc. to IE	C 60529	IP00			
electromagnetic con			acc.	to IEC 60947-4-2		
ATEX	1					
certificate of suitabil	lity					
ATEX			Yes			
• IECEx			Yes			
	EX directive 2014/34/E	ΞU		18 ATEX F 003 X		
0	cording to ATEX dire		II (2)		b] [Ex pxb Gb], II (2)D	[Ex tb Db] [Ex pxb Db],
hardware fault tolera	ance acc. to IEC 61508	8 relating to	0	, , , , , , , , , , , , , , , , , , , ,		
	mand rate acc. to IEC	61508	0.008	3		
_	and rate acc. to EN 6	2061 relating	0.000	00005 1/h		
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 615	508 relating	SIL1			
T1 value for proof te IEC 61508 relating to	st interval or service ATEX	life acc. to	3 у			
Certificates/ approval	S					
General Product Ap	proval				EMC	For use in hazard- ous locations
(SP)		(ال س		EHC	RCM	IECE×
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping		other
ATEX ATEX	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	Lloyd's Kegister uis	<u>Confirmation</u>
Further information						
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=3RW5553-2HA06 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-2HA06 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-2HA06 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5553-2HA06⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current					iacros,)

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5553-2HA06&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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