SIEMENS

Data sheet

3RW5554-6HA06



SIRIUS soft starter 200-690 V 840 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 	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 	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>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 %			

• CE making Yes • CSA approval Yes • SA approval Yes • MM-HapP Feature Yes • Product tomportent Yes • Statistic integrated Dypass contact system Yes • Product feature integrated Dypass contact system Yes rumber of controlled phases 3 Grand feature integrated Dypass contact system Yes ground-fault monotoring limiting value [%] 1060 % ground-fault monotoring limiting value [%] 1060 % ground-fault monotoring limiting value [%] 1060 % ground-fault monotoring limiting value [%] 101800 % limitidon voltage rated value 680 V digree of pollution 3						
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• CSA approval Yes product component * • # NUFHyb Feature Yes • * Bupported HMI-High Feature Yes product facture integrated bypass contact system Yes number of controlled phases 3 arrant integrated bypass contact system Yes product facture integrated bypass contact system Yes grand-fault integrated bypass contact system Yes or antio indired limiting value (%) 1065 % recovery time after overload trip adjustable 601800 s buffering time in the event of power failure 100 ms - for antio carent draute 600 V degree of plottion 3, acc to IEC 6047-4-2 imputes voltage redstable value 680 V eventor factor 115 sturg voltage redstable value 680 V eventor factor 15 g / 11 ms. from 6 g / 11 ms. with polential contact lifting vibrack resistance <td< th=""><th>0</th><td></td></td<>	0					
product component Yes • HMI-High Feature Yes product facture integrated bypass contact system Yes unumber of controlled phases 3 trip class CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current unbalance limiting value [%] 1060 % ground-fault monitoring limiting value [%] 1065 % recevery time after overload trip adjustable 60180 a buffering time in the event of power failure 0255 a insulation voltage rated value 600 V degree of pollution 3, acc. to IEC 60947-4-2 Impulse voltage rated value 600 V everve factore 15 unger resistance rated value 8 kV maximum permissible voltage for safe balation - vibraton resistance 15 mm up to 6 Hz; 2 up to 500 Hz order cacc. to IEC 60947-4-2 C Substance Prohibilance (Date) 8 kV maximum permissible voltage for safe balation - • between main and availlery circuit 690 V; does not apply for thermistor connection utilization category acc. to IEC 60947-4-2 C						
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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 Yes • ramp-up (soft starting) Yes • breakaway pulse Yes • adjustable current limitation Yes • creep speed in both directions of rotation Yes • DC braking Yes • break way pulse Yes • break function Yes • adjustable current limitation Yes • pump ramp down Yes • DC braking Yes • brace function Yes • lace function Yes • intrinsic device protection Yes • indic-delta circuit Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • inside-delta circuit Yes • auto-RESET Yes • amanual RESET Yes • communication function Yes • operating measured value display Yes • event list Yes						
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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 • slave pointer function Yes • trace function Yes • intrinsic device 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 • 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 • via software configurable Yes • via software confi	reference code acc. to IEC 81346-2					
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 • slave pointer function Yes • trace function Yes • intrinsic device 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 • 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 • via software configurable Yes • via software confi	Substance Prohibitance (Date)	11.02.2019 00:00:00				
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• breakaway pulseYes• adjustable current limitationYes• creep speed in both directions of rotationYes• pump ramp downYes• DC brakingYes• motor heatingYes• motor heatingYes• slave pointer functionYes• trace functionYes• intrinsic device protectionYes• motor overload 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• communication functionYes• operating measured value displayYes• event listYes• via software parameterizableYes• via software configurableYes• via software configurableYes• via software configurableYes• perterminalYes• pRoFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	-	Yes				
• breakaway pulseYes• adjustable current limitationYes• creep speed in both directions of rotationYes• pump ramp downYes• DC brakingYes• motor heatingYes• motor heatingYes• slave pointer functionYes• trace functionYes• intrinsic device protectionYes• motor overload 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• communication functionYes• operating measured value displayYes• event listYes• via software parameterizableYes• via software configurableYes• via software configurableYes• via software configurableYes• perterminalYes• pRoFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 ramp-down (soft stop) 	Yes				
eadjustable current limitationYescreep speed in both directions of rotationYespump ramp downYesDC brakingYesmotor heatingYesslave pointer functionYesintrinsic device protectionYesintrinsic device protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protectionevaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYesauto-RESETYeserrende resetYescommunication functionYesevent listYesevent listYesevent listYeserror logbookYesvia software parameterizableYesvia software configurableYesvia software configurableYesspring-type terminalNoePROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 breakaway pulse 	Yes				
• creep speed in both directions of rotationYes• pump ramp downYes• DC brakingYes• motor heatingYes• motor heatingYes• slave pointer functionYes• 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• via software parameterizableYes• via software parameterizableYes• perforlenergyYes in connection with the PROFINET Standard and PROFINET High-		Yes				
• pump ramp downYes• DC brakingYes• motor heatingYes• motor heatingYes• slave pointer functionYes• 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• event listYes• event listYes• event listYes• via software parameterizableYes• via software configurableYes• via software configurableYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	-	Yes				
DC brakingYesmotor heatingYesslave pointer functionYesstave pointer functionYestrace functionYesintrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Full motor overload protection)evaluation of thermistor motor protectionYes; Solly up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYescommunication functionYesoperating measured value displayYesevent listYesvia software parameterizableYesvia software configurableYesscrew terminalYesspring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-						
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 configurableYesvia software configurableYesspring-type terminalNo PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High-	• DC braking	Yes				
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 resetYescommunication functionYesevent listYeserror logbookYesvia software parameterizableYesvia software configurableYesspring-type terminalNoeROFLenergyYes; in connection with the PROFINET Standard and PROFINET High-		Yes				
• 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• event listYes• via software parameterizableYes• via software configurableYes• 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 RESETYeseremote resetYescommunication functionYesoperating measured value displayYesevent listYeserror logbookYesvia software parameterizableYesvia software configurableYesscrew terminalYesepring-type terminalNoPROFlenergyYes; 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• spring-type terminalNo• PROFlenergyYes; 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 terminalYes• spring-type terminalNo• PROFlenergyYes; 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 terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 evaluation of thermistor motor protection 					
e auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-						
• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	auto-RESET					
• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-						
 operating measured value display operating measured value display operating measured value display operating measured value display Yes ves ves ves via software parameterizable via software configurable Ves via software configurable Yes ves ves		Yes				
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 communication function 	Yes				
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 operating measured value display 	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-						
 via software parameterizable via software configurable screw terminal spring-type terminal PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High- 						
 via software configurable screw terminal spring-type terminal PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	5					
 screw terminal spring-type terminal PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High- 						
spring-type terminal No PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High-	-					
• PROFIEnergy Yes; in connection with the PROFINET Standard and PROFINET High-						
		Feature communication modules				

£	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 	840 A				
 at 40 °C rated value minimum 	168 A				
 at 50 °C rated value 	748 A				
● at 60 °C rated value	670 A				
operational current at inside-delta circuit					
• at 40 °C rated value	1 454 A				
• at 50 °C rated value	1 295 A				
• at 60 °C rated value	1 160 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 % 250 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 % 250 kW 450 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 % 250 kW 450 kW 450 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 % 250 kW 450 kW 450 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 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	10 % 250 kW 450 kW 450 kW 800 kW 560 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 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 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 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 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 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 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 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 • 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 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	10 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 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 • at 60 °C after startup power loss [W] at AC at current limitation 350 %	10 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le 252 W 205 W 164 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le 252 W 205 W 164 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 W 10 405 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 a inside-delta circuit 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 differ startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup	10 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 W 10 405 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 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 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 W 10 405 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 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 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 % 250 kW 450 kW 450 kW 800 kW 560 kW 900 kW 800 kW 50 Hz 60 Hz -10 % 10 % 10 % 10 %; Relative to set le 252 W 205 W 164 W 14 441 W 12 187 W 10 405 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 	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 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 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 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	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 • backwards • upwards • 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 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 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 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 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 mm ²), 2x (0.5 1.5 mm ²)				
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				
0.1	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	Ver				
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. 2500 A; Iq = 42 kA				
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 2500 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. 2500 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. 2500 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	250 hp				
 at 220/230 V at 50 °C rated value 	300 hp				
 at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value 	300 hp 600 hp				

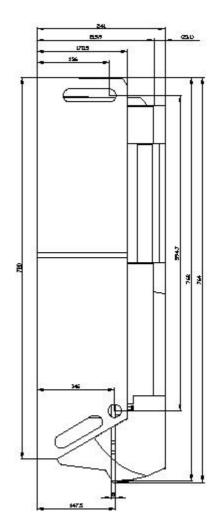
	50 °C rated value		800 ł	r.				
 at 200/208 V at value 	inside-delta circuit at 5	50 °C rated		450 hp				
 at 220/230 V at value 	inside-delta circuit at 5	50 °C rated	550 ł	р				
	• at 460/480 V at inside-delta circuit at 50 °C rated) hp				
	• at 575/600 V at inside-delta circuit at 50 °C rated) hp				
contact rating of au	ciliary 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				
	cording to ATEX dire	ective	II (2)	G [Ex eb Gb] [Ex d	b Gb] [Ex pxb Gb], II ((2)D [Ex tb Db] [Ex pxb Db],		
2014/34/EU		• • • • •	I (M2) [Ex db Mb]				
ATEX	ance acc. to IEC 6150		0					
relating to ATEX	mand rate acc. to IEC		0.008					
PFHD with high demand rate acc. to EN 62061 relating to ATEX			0.000	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	st interval or service ATEX	life acc. to	3 у					
Certificates/ approval	S							
General Product Ap	proval				EMC	For use in hazard- ous locations		
		~			•			
		(UL)		EHC	RCM	K ATEX		
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shippi	ng	other		
IECEx	CE	<u>Type Test Ce</u> ates/Test Re			Lloyds Register	<u>Confirmation</u>		
IECEx	EG-Konf.			ABS	LRS			
Further information	unloadcanter (0-t.)	no Dreek						
https://www.siemens.	wnloadcenter (Catalo com/ic10	gs, Brochures,)					
Industry Mall (Online		/Catalog/produc	:t?mlfb=	3RW5554-6HA06				
Cax online generato								
Service&Support (M	anuals, Certificates, 0	Characteristics,	, FAQs,)				
Image database (pro	y.siemens.com/cs/ww/ oduct images, 2D dime	ension drawing	ıs, 3D m	nodels, device cir		N macros,)		
http://www.automation			a					

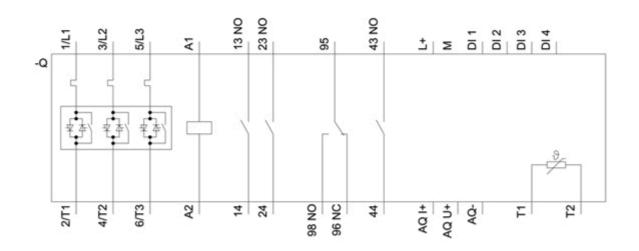
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5554-6HA06/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5554-6HA06&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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