SIEMENS

Data sheet

3RW5545-2HA04



SIRIUS soft starter 200-480 V 315 A, 24 V AC/DC spring-type terminals

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW55			
manufacturer's article number				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 of circuit breaker usable at 400 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2580-6HN32-0AA0; 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 the gG fuse usable at inside-delta circuit up to 500 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>3NE1334-2: Type of coordination 2, Iq = 65 kA</u>			
General technical data				
starting voltage [%]	20 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 360 s			
ramp-down time of soft starter	0 360 s			
start torque [%]	10 100 %			
stopping torque [%]	10 100 %			
torque limitation [%]	20 200 %			
current limiting value [%] adjustable	125 800 %			
breakaway voltage [%] adjustable	40 100 %			
breakaway time adjustable	0 2 s			
number of parameter sets	3			
accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				

- CE morking	Vaa				
• CE marking	Yes				
UL approval	Yes				
CSA approval	Yes				
product component					
• HMI-High Feature	Yes				
is supported HMI-High Feature	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	3				
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2				
current unbalance limiting value [%]	10 60 %				
ground-fault monitoring limiting value [%]	10 95 %				
recovery time after overload trip adjustable	60 1 800 s				
buffering time in the event of power failure	100				
for main current circuit	100 ms				
for control circuit	100 ms				
idle time adjustable	0 255 s				
insulation voltage rated value	480 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 400 V				
service factor	1.15				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation					
between main and auxiliary circuit	480 V; does not apply for thermistor connection				
utilization category acc. to IEC 60947-4-2	AC 53a				
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting				
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz				
reference code acc. to IEC 81346-2	Q				
Substance Prohibitance (Date)	15.02.2018 00:00:00				
product function					
 ramp-up (soft starting) 	Yes				
 ramp-down (soft stop) 	Yes				
 breakaway pulse 	Yes				
 adjustable current limitation 	Yes				
 creep speed in both directions of rotation 	Yes				
 pump ramp down 	Yes				
DC braking	Yes				
 motor heating 	Yes				
 slave pointer function 	Yes				
 trace function 	Yes				
 intrinsic device protection 	Yes				
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.				
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick				
inside-delta circuit	Yes				
● auto-RESET	Yes				
manual RESET	Yes				
remote reset	Yes				
communication function	Yes				
 operating measured value display 	Yes				
• event list	Yes				
• error logbook	Yes				
via software parameterizable	Yes				
via software configurable	Yes				
screw terminal	No				
spring-type terminal	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-				
- FICH IEIIEI'BY	res, in connection with the FICOTINET Standard and FROFINET HIgh-				

	Feature communication modules				
• 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	315 A				
 at 40 °C rated value minimum 	63 A				
• at 50 °C rated value	279 A				
• at 60 °C rated value	255 A				
operational current at inside-delta circuit					
• at 40 °C rated value	546 A				
• at 50 °C rated value	483 A				
• at 60 °C rated value	442 A				
operating voltage					
rated value	200 480 V				
at inside-delta circuit rated value	200 480 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	10 % -15 %				
inside-delta circuit	-15 70				
relative positive tolerance of the operating voltage at inside-delta circuit	10 %				
operating power for 3-phase motors					
 at 230 V at 40 °C rated value 	90 kW				
 at 230 V at inside-delta circuit at 40 °C rated value 	160 kW				
• at 400 V at 40 °C rated value	160 kW				
 at 400 V at inside-delta circuit at 40 °C rated value 					
	315 kW				
Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value	50 Hz 60 Hz				
Operating frequency 2 rated value relative negative tolerance of the operating frequency	50 Hz 60 Hz -10 %				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	50 Hz 60 Hz -10 % 10 %				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	50 Hz 60 Hz -10 %				
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le				
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W				
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	50 Hz 60 Hz -10 % 10 % Relative to set le 95 W 84 W				
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W				
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 after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W				
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 % • at 40 °C during startup	50 Hz 60 Hz -10 % 10 % Relative to set le 95 W 84 W				
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 % • at 40 °C during startup • at 50 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W				
Operating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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• at 40 °C during startup• at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W				
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 % • at 40 °C during startup • at 50 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W				
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 40 °C during startup • at 40 °C during startup • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W				
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 40 °C during startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup • at 60 °C during startup • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor				
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 differ startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor				
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 40 °C during startup • at 40 °C during startup • at 60 °C duri	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor AC/DC				
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 40 °C during startup • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup • at 50 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V				

voltage at AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	720 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
 number of digital outputs 	4
 number of digital outputs parameterizable 	3
 number of digital outputs not parameterizable 	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting • forwards	10 mm
backwards	0 mm
upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	10.2 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	

• with conductor gross-sections 15 mm ^m maximum 250 m • for DN cable lug for main contacts finally standed 24 (50 240 mm ^m) 25 (50 240 mm ^m) • for DN cable lug for main contacts finally standed 24 (50 240 mm ^m) 27 (50 240 mm ^m) • for control circuit shild 24 (50 240 mm ^m) 27 (50 240 mm ^m) • for control circuit shild 24 (70 240 mm ^m) 27 (70 240 mm ^m) • for control circuit finally standed with core end processing 27 (22 1.5 mm ^m) 27 (22 1.5 mm ^m) • of ro control circuit finally standed with core end processing 27 (24 16) 27 (24 16) • of walling inpols at DC maximum 1000 m 1000 m • for main controlace with screw-type 14 24 Nm 0.8 12 Nm • for main controlace with screw-type 14 24 Nm 0.8 12 Nm • for main controlace with screw-type 124 210 bt/in 7 10.3 bt/in • for auxiliary and control contacts with screw-type 124 210 bt/in 7 10.3 bt/in • for main contacts with screw-type 124 210 bt/in 7 10.3 bt/in • for main contacts with screw-type 124 210 bt/in 7 400 °C						
• with conductor cross-sections 250 m if or DN cable lug for main contacts stranded 2x (50 240 mm²) • for DN cable lug for main contacts stranded 2x (70 240 mm²) • for control circuit solid 2x (0.25 15 mm²) • for control circuit solid 2x (0.25 15 mm²) • at AWG cables for control circuit finely stranded with core end processing 2x (2.4 16) • at AWG cables for control circuit finely stranded with core end processing 2x (2.4 16) • at AWG cables for control circuit solid 2x (2.4 16) • at MWG cables for control circuit solid 2x (2.4 16) • for auxility and control contacts with screw-type terminals 100 m • for auxility and control contacts with screw-type terminals 14 24 N m • for auxility and control contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation acc, to IEC 60721 9K (no tee formation, only occasional condensation), 3C3 (no salt mas), 3S3 (sant must not get into the devices), 1M6 • during transport acc, to IEC 60721 9K (no tee formation, only occasional condensation), 1C3 (no salt mas), 3S3 (sant must not get into the devices), 1M6 • duri	 with conductor cross-section = 0.5 mm² maximum 	50 m				
Type of connectable conductor cross-sections 2x (50 240 mm ²) • for DN cable lug for main contacts finely stranded 2x (50 240 mm ²) • for control circuit finely stranded with core end processing 2x (0.2 1.5 mm ²) • at AWG cables for control circuit finely stranded with core end processing 2x (0.2 1.5 mm ²) • at AWG cables for control circuit finely stranded with core end processing 2x (24 16) • at AWG cables for control circuit finely stranded with core end processing 900 m • at the digit inputs at DC maximum 800 m • of runk contacts with screw-type terminals 14 24 M m • for auxiliary and control contacts with screw-type terminals 14 210 Ibrin • for auxiliary and control contacts with screw-type terminals 124 210 Ibrin • for auxiliary and control contacts with screw-type terminals 124 210 Ibrin • for auxiliary and control contacts with screw-type terminals 124 210 Ibrin • for uning contacts with screw-type terminals 124 40 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during strage and transport -7 +60 °C; Please observe derating at temperatures of 40 °C or above <t< td=""><td></td><td colspan="4"></td></t<>						
• for DIN cable lug for main contacts financed 2x (50240 mm?) • for control circuit sold 2x (70240 mm?) • for control circuit sold 2x (70240 mm?) • for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at XMS cables for control circuit sold 2x (70240 mm?) • at the digital inputs at DC maximum 1000 m • for auxiliary and control contacts with screw-type terminals 0.812 N m • for auxiliary and control contacts with screw-type terminals 0.812 N m • for auxiliary and control contacts with screw-type terminals 0.0	 with conductor cross-section = 2.5 mm² maximum 	250 m				
• for DN cable Lig or main contacts finely stranded 2x (70240 mm ²) Vpc of connectable conductor cross-sections • for control circuit mely stranded with core and processing • for control circuit mely stranded with core and processing 2x (72.515 mm ²) • at AWG cables for control circuit mely stranded with core and processing 2x (72.515 mm ²) • at AWG cables for control circuit mely stranded with core and processing 2x (72.515 mm ²) • at AWG cables for control circuit shell stranded with core and processing 2x (72.515 mm ²) • at WG cables for control circuit shell stranded with core and processing 2x (72.515 mm ²) • at the digit lipbits at DC maximum 500 m • for main contacts with screek-type terminals 612 N m • for main contacts with screek-type terminals 1424 N m • for main contacts with screek-type terminals 5.000 m; Dereting as of 1000 m; see catalog Installation atfluide at height above see level maximum 25 +60 °C; Please observe derating at temperatures of 40 °C or about the devices; MM • during sporation acc. to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no satt mist), 52 (sand must not get insole the devices; MM • during sporage ac, to IEC 60721 3K6 (no lee formation, only occasined condensation), 3C3 (no satt mist), 52 (sand must	type of connectable conductor cross-sections					
Type of connectable conductor cross-sections 2x (0.251.5 mm²) • for control circuit solid 2x (0.251.5 mm²) • at XMG cables for control circuit solid 2x (0.251.5 mm²) • at XMG cables for control circuit solid 2x (0.251.5 mm²) • at XMG cables for control circuit solid 2x (2.416) • at XMG cables for control circuit solid 2x (2.416) • at the digital inputs at DC maximum 600 m • the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 1424 N m • for main contacts with screw-type terminals 124210 lbf:in • for auxiliary and control contacts with screw-type terminals 5600 m; Dearating as of 1000 m, see catalog ambient tomporature -40480 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40480 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40480 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40480 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40480 °C; Please observe derating at temperatures of 40 °C or above •	 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)				
a for control circuit solid 2x (0.251.5 mm²) i at AWG cables for control circuit finely stranded with core and processing 2x (0.251.5 mm²) i at AWG cables for control circuit finely stranded with core and processing 2x (2416) i at AWG cables for control circuit finely stranded with core and processing 2x (2416) i at AWG cables for control circuit finely stranded with core and processing 2x (2416) i at AWG cables for control circuit finely stranded with core and processing 2x (2416) i at AWG cables for control circuit finely stranded with core and processing 2x (2416) i at the digit inplus at Control circuit finely stranded with core and processing 2x (2416) i at the digit inplus at Control circuit finely stranded with core and motor maximum 800 m i at the digit inplus at Control circuit swith screw-type terminals 1424 k·m i for main contacts with screw-type terminals 124210 lbf-lin i for main contacts with screw-type terminals 5.000 m; Derating as of 1000 m, see catalog installation atitude at height above sea level maximum 5.000 m; Derating as of 1000 m, see catalog ambient temperature -25+60 °C; Please observe derating at temperatures of 40 °C or above • during storage acc. to IEC 60721 3K6 (no te formation, on/p occasional condensation), 3C3 (no saft mab),	 for DIN cable lug for main contacts finely stranded 					
• for control circuit finely standed with core end processing 2x (0.25 1.5 mm²) • at AWG cables for control circuit finely standed with core end processing 2x (24 16) • at AWG cables for control circuit finely standed with core end processing 2x (24 16) • at the digital inputs at DC maximum 800 m • at the digital inputs at DC maximum 800 m • the tween soft starter and motor maximum 800 m • the tween soft starter and motor maximum 800 m • the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 14 24 N-m • for auxilary and control contacts with screw-type terminals 124 210 lbfin • for auxilary and control contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog • athing storage and transport -40 40° °C. Please observe derating at temperatures of 40 °C or above • during storage and transport -40 40° °C. • during storage act. to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EMC emitted interference 2co to IEC 60474-2: Class A	type of connectable conductor cross-sections					
processing ar AWG cables for control circuit finely stranded with core end processing 2x (24 16) at AWG cables for control circuit finely stranded with core end processing 3x (24 16) wire length 800 m • ot well all inputs at Comsimum 800 m • ot main contacts with screw-type terminals 14 24 N-m • for main contacts with screw-type terminals 14 24 N-m • for main contacts with screw-type terminals 124 210 IbF in • for main control control contacts with screw-type terminals 124 210 IbF in • for main control control contacts with screw-type terminals 124 210 IbF in • for main control control contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -40 +80 °C • during operation acc. to IEC 60721 3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indic the devices), 3M6 • during storage acc. to IEC 60721 3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indic the devices), 3M6 • during storage acc. to IEC 60721 3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indide the devices), 3	 for control circuit solid 	2x (0.25 1.5 mm²)				
	 for control circuit finely stranded with core end 	2x (0.25 1.5 mm²)				
	processing					
core end processing 800 m • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 14 24 N·m • for raixiliary and control contacts with screw-type terminals 14 24 N·m • for raixiliary and control contacts with screw-type terminals 14 210 lbf-in • for raixiliary and control contacts with screw-type terminals 7 10.3 lbf-in • for auxiliary and control contacts with screw-type terminals 5.000 m; Deraling as of 1000 m, see catalog ambient temperature - 40 +80 °C • during storage and transport - 40 +80 °C • during storage and transport - 40 +80 °C • during storage and transport - 40 +80 °C • during storage and transport - 40 +80 °C • during storage and transport - 40 +80 °C • during storage act to IEC 60721 2K6 (no tee formation only occasional contensation), 3C3 (no salt mist), 352 (sand must not get insible the devices), 3M6 • during transport act. to IEC 60721 2K2 (221, 251, 242, 202, 251, 251, 242 (max fail height 0.3 m) • during transport act. to IEC 60721 2K2 (221, 251, 251, 242 (max fail height 0.3 m) • during transport act. to IEC 60721 2K2 (221, 251, 251, 242 (max fail height 0.3 m) • export.Protifieut Yes • PROFINET h	 at AWG cables for control circuit solid 	2x (24 16)				
wire length 		2x (24 16)				
• between soft starter and motor maximum 900 m • at the digital inputs at DC maximum 1000 m • for main contacts with screw-type terminals 1424 N-m • for main contacts with screw-type terminals 1424 N-m • for auxiliary and control contacts with screw-type terminals 124210 lbf in • for auxiliary and control contacts with screw-type terminals 710.3 lbf in • for auxiliary and control contacts with screw-type terminals 5.000 m; Derating as of 1000 m, see catalog • ambient conditions 5.000 m; Derating as of 1000 m, see catalog • ambient conditions -25+60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40+80 °C • during storage and transport -40+80 °C • during storage and transport -40+80 °C • during storage acc: to IEC 60721 2K (no te formation: only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not oge in the devices), 3M0 • during transport acc: to IEC 60721 2K (22,1, 251, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	_					
	-					
tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Anbient conditions installation altitude at height above sea level maximum ambient temperature during storage and transport during storage and transport during storage and transport during storage act. to IEC 60721 during transport act. to IEC 60721 during transport act. to IEC 60721 washed for High Faults at 460/480 V at most core act. to IEC 60947.4-2: Class A Communicationt module is						
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• 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 • DU/CSA ratings Yes manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at cording to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL	 during storage acc. to IEC 60721 					
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 PROFINET standard PROFINET high-feature PROFINET high-feature Yes PROFINET high-feature Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings UL/CSA ratings Semens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL 	Communication/ Protocol					
 PROFINET high-feature Yes EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL 	communication module is supported					
 EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Fautts at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL 	 PROFINET standard 	Yes				
 Modbus RTU Modbus TCP PROFIBUS Yes UL/CSA ratings UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL 	 PROFINET high-feature 	Yes				
Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings UL/CSA ratings UL/CSA ratings UL/CSA ratings Indufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for Hi	EtherNet/IP	Yes				
• PROFIBUS Yes UL/CSA ratings Simmufacturer's article number • of circuit breaker Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA	Modbus RTU	Yes				
• PROFIBUS Yes UL/CSA ratings Simmufacturer's article number • of circuit breaker Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA - usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA	Modbus TCP	Yes				
UL/CSA ratings manufacturer's article number • of circuit breaker		Yes				
manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL usable for High Faults at 575/600 V at inside-delta circuit according to UL Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA 						
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 - usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at coording to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL - usable for High Faults at 575/600 V at inside-delta circuit according to UL 						
according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA		Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A: Ig = 18 kA				
to ULkA usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA						
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inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA						
— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA		Siemens type: 3VA54, max. 600 A; Iq = 18 kA				
delta circuit according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for Standard Faults at 575/600 VSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA	5	0				
 usable for Standard Faults at 575/600 V Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 575/600 V at inside- delta circuit according to UL Siemens type: 3VA54, max. 600 A; Iq max = 65 kA 		Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
according to UL — usable for High Faults at 575/600 V at inside- delta circuit according to UL	-	Signaps type: $21/453$ may 400 Å or $21/454$ may 600 Å to = 40 kÅ				
— usable for High Faults at 575/600 V at inside- delta circuit according to UL		Siemens type. 37433, max. 400 A or 37434, max. 600 A; Iq = 18 KA				
delta circuit according to UL	5	Siemens type: $3VA54$, max 600 A ⁻ Ig max = 65 kA				
— usable for Standard Faults at 575/600 V at Siemens type: 3VA54 max 600 A: Ig = 18 kA						
	— usable for Standard Faults at 575/600 V at	Siemens type: 3VA54, max. 600 A; Iq = 18 kA				

	ircuit according to UL						
 of the fuse — usable for according to I 	Standard Faults up to	575/600 V	Туре	Type: Class J / L, max. 1000 A; lq = 18 kA			
0	High Faults up to 575/6	600 V	Туре	Type: Class J / L, max. 1000 A; Iq = 100 kA			
— usable for	according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL			: Class J / L, max. 100	00 A; Iq = 18 kA		
— usable for	High Faults at inside-de according to UL		Туре	Type: Class J / L, max. 1000 A; Iq = 100 kA			
operating power [hp] for 3-phase motors		-				
• at 200/208 V at	50 °C rated value		75 hp)			
• at 220/230 V at	50 °C rated value		100 h	ıp			
• at 460/480 V at	50 °C rated value		200 h	ip			
● at 200/208 V at value	inside-delta circuit at 5	0 °C rated	150 h	ıp			
• at 220/230 V at value	inside-delta circuit at 5	0 °C rated	200 h	р			
• at 460/480 V at value	inside-delta circuit at 5	0 °C rated	400 h	р			
	kiliary contacts accor	ding to UL	R300	-B300			
Safety related data							
protection class IP of	on the front acc. to IE	C 60529	IP00;	IP20 with cover			
touch protection on	the front acc. to IEC	60529	finger	r-safe, for vertical con	tact from the front with	cover	
electromagnetic con	npatibility		acc. t	o IEC 60947-4-2			
ATEX							
certificate of suitabil	lity						
 ATEX 			Yes				
 IECEx 			Yes				
according to AT	EX directive 2014/34/E	U	BVS	18 ATEX F 003 X			
type of protection ac 2014/34/EU	type of protection according to ATEX directive			II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]			
hardware fault tolerance acc. to IEC 61508 relating to ATEX		0					
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX		0.008	0.008				
to ATEX	nand rate acc. to EN 6		0.0000005 1/h				
to ATEX	el (SIL) acc. to IEC 618		SIL1				
IEC 61508 relating to	T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX		3 у				
Certificates/ approvals	S		_		_		
General Product Ap	proval				EMC	For use in hazard- ous locations	
					•		
60	(m)	(m)		COC	ka k	6.7	
	<u>u</u>	ଞ		C M L	<u>w</u>		
CSA	ccc	UL			RCM	ATEX	
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping			
ICCC.	~~	Type Test Ce				Loude	
IECEX	EG-Konf.	<u>ates/Test Re</u>	<u>ייסטד</u>	ABS		Register	
					BUREAU VERITAS		
Marine / Shipping		other					



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=3RW5545-2HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-2HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5545-2HA04&lang=en

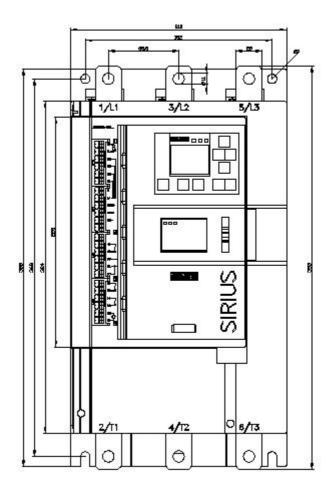
Characteristic: Tripping characteristics, I²t, Let-through current

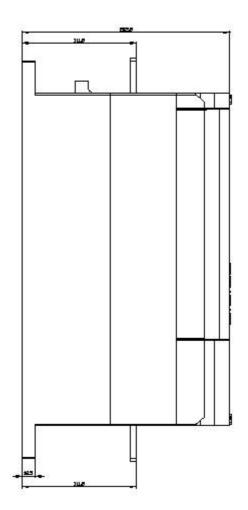
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545-2HA04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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