SIEMENS

Data sheet

3RW5244-6TC04



SIRIUS soft starter 200-480 V 250 A, 24 V AC/DC Screw terminals Thermistor input

product brand name	SIRIUS				
product category	Hybrid switching devices				
product designation	Soft starter				
product type designation	3RW52				
manufacturer's article number					
 of standard HMI module usable 	<u>3RW5980-0HS00</u>				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>				
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</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 	<u>3VA2440-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2450-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2450-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA				
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA				
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1331-0;</u> Type of coordination 2, Iq = 65 kA				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3336;</u> Type of coordination 2, Iq = 65 kA				
General technical data					
starting voltage [%]	30 100 %				
stopping voltage [%]	50 %; non-adjustable				
start-up ramp time of soft starter	0 20 s				
current limiting value [%] adjustable	130 700 %				
certificate of suitability					
CE marking	Yes				
UL approval	Yes				
 CSA approval 	Yes				
product component					
HMI-High Feature	No				
is supported HMI-Standard	Yes				
 is supported HMI-High Feature 	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	3				
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2				
buffering time in the event of power failure					

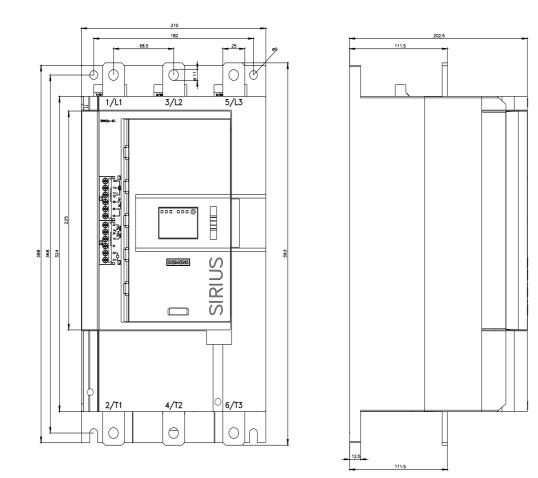
for main current circuit	100 ms			
for control circuit	100 ms			
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	3, acc. to IEC 60947-4-2 6 kV			
blocking voltage of the thyristor maximum	0 KV 1 600 V			
service factor	1 600 V 1			
surge voltage resistance rated value	1 6 kV			
maximum permissible voltage for safe isolation				
between main and auxiliary circuit	600 V			
shock resistance	600 V 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz			
utilization category according to IEC 60947-4-2	AC 53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	02/15/2018			
product function				
• ramp-up (soft starting)	Yes			
• ramp-down (soft stop)	Yes			
Soft Torque	Yes			
adjustable current limitation	Yes			
• pump ramp down	Yes			
intrinsic device protection	Yes			
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic			
·	motor overload protection)			
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick			
 inside-delta circuit 	Yes			
auto-RESET	Yes			
 manual RESET 	Yes			
remote reset	Yes; By turning off the control supply voltage			
 communication function 	Yes			
 operating measured value display 	Yes; Only in conjunction with special accessories			
 error logbook 	Yes; Only in conjunction with special accessories			
 via software parameterizable 	No			
 via software configurable 	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication			
- firmurare un dete	module			
firmware update	Yes			
removable terminal for control circuit	Yes			
 torque control analog output 	No			
5 1	NO			
Power Electronics				
operational current	250 4			
• at 40 °C rated value	250 A			
• at 50 °C rated value	220 A			
at 60 °C rated value	200 A			
 operational current at inside-delta circuit at 40 °C rated value 	433 A			
 at 50 °C rated value at 60 °C rated value 	381 A 346 A			
operating voltage rated value 	200 480 V			
 rated value at inside-delta circuit rated value 	200 480 V 200 480 V			
• at inside-delta circuit rated value relative negative tolerance of the operating voltage	-15 %			
relative negative tolerance of the operating voltage	10 %			
relative negative tolerance of the operating voltage at	-15 %			
inside-delta circuit				
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	75 kW			
 at 230 V at inside-delta circuit at 40 °C rated value 	132 kW			
 at 400 V at 40 °C rated value 	132 kW			
 at 400 V at inside-delta circuit at 40 °C rated value 	250 kW			
Operating frequency 1 rated value	50 Hz			

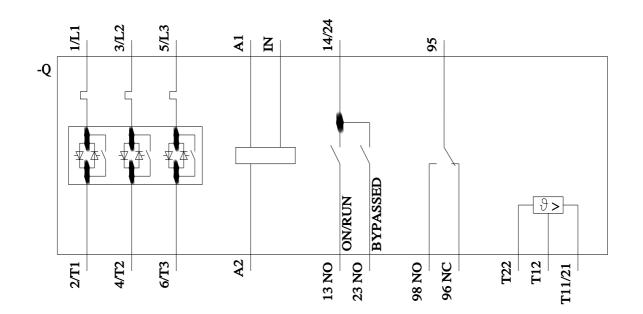
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	100 A
 at rotary coding switch on switch position 2 	110 A
 at rotary coding switch on switch position 3 	120 A
• at rotary coding switch on switch position 4	130 A
 at rotary coding switch on switch position 5 	140 A
 at rotary coding switch on switch position 6 	150 A
 at rotary coding switch on switch position 7 	160 A
 at rotary coding switch on switch position 8 	170 A
 at rotary coding switch on switch position 9 	180 A
 at rotary coding switch on switch position 10 	190 A
 at rotary coding switch on switch position 11 	200 A
 at rotary coding switch on switch position 12 	210 A
 at rotary coding switch on switch position 13 	220 A
 at rotary coding switch on switch position 14 	230 A
 at rotary coding switch on switch position 15 	240 A
 at rotary coding switch on switch position 16 	250 A
• minimum	100 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	173 A
 for inside-delta circuit at rotary coding switch on switch position 2 	191 A
 for inside-delta circuit at rotary coding switch on switch position 3 	208 A
 for inside-delta circuit at rotary coding switch on switch position 4 	225 A
 for inside-delta circuit at rotary coding switch on switch position 5 	242 A
 for inside-delta circuit at rotary coding switch on switch position 6 	260 A
 for inside-delta circuit at rotary coding switch on switch position 7 	277 A
 for inside-delta circuit at rotary coding switch on switch position 8 	294 A
 for inside-delta circuit at rotary coding switch on switch position 9 	312 A
 for inside-delta circuit at rotary coding switch on switch position 10 	329 A
• for inside-delta circuit at rotary coding switch on switch position 11	346 A
• for inside-delta circuit at rotary coding switch on switch position 12	364 A
 for inside-delta circuit at rotary coding switch on switch position 13 	381 A
 for inside-delta circuit at rotary coding switch on switch position 14 	398 A
 for inside-delta circuit at rotary coding switch on switch position 15 	416 A
 for inside-delta circuit at rotary coding switch on switch position 16 	433 A
 at inside-delta circuit minimum minimum load [%] 	173 A 15 %; Relative to smallest settable le
	וט זע, ולכומוויב נט אוומווכא אכנומטוב וכ
 power loss [W] for rated value of the current at AC at 40 °C after startup 	87 W
• at 50 °C after startup	78 W
• at 60 °C after startup	72 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	3 818 W
• at 50 °C during startup	3 188 W
• at 60 °C during startup	2 799 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
sona or suppry voltage at Ao	

• at 00 Hz rated value 24 V • at 00 Hz rated value 24 V relative negative tolerance of the control supply 20 % • voltage at AC at 50 Hz 20 % relative positive tolerance of the control supply 20 % voltage at AC at 50 Hz 20 % relative positive tolerance of the control supply 20 % voltage at AC at 50 Hz 50 60 Hz relative positive tolerance of the control supply 10 % voltage at AC at 50 Hz 50 60 Hz relative positive tolerance of the control supply 10 % voltage at AC at 50 Hz 50 60 Hz relative positive tolerance of the control supply 10 % voltage at AC at 50 Hz 50 60 Hz relative positive tolerance of the control supply 20 % control supply voltage 24 V eart Of at positive tolerance of the control supply 20 % voltage at AC 50 60 Hz relative positive tolerance of the control supply 20 % voltage at AC 50 60 Hz relative positive tolerance of the control supply 20 % voltage at AC 50 60 A cuck acting fuse ((u=1 KA), CA minibure (u=1 KA), CA minibure		
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voltage at AC at 50 Hz Model inclusion positive to learned of the control supply 20 % voltage at AC at 50 Hz 20 % voltage to feature of the control supply 20 % voltage to feature of the control supply -10 % voltage tradework 0 % voltage tradework 20 % voltage to feature 20 % vol	 at 60 Hz rated value 	24 V
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relative negative tolerance of the control supply voltage at AC 46 9 hz -20 % control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency 5060 Hz relative negative tolerance of the control supply voltage frequency 5060 Hz relative negative tolerance of the control supply voltage frequency 10 % control supply voltage 24 V • at DC rated value 20 % • at DC rated value 20 % relative negative tolerance of the control supply voltage at DC 20 % control supply current in standby mode rated value 160 mA holding current in bypass operation rated value 160 mA formationame control supply current in standby mode rated value formationame control supply current in standby mode rated value formationame control supply current in standby mode rated value formationame control supply current in standby mode rated value formationame control supply current in standby mode rated value design of short-circuit protection for control circuit 2.1 ms remails-copen contacts (NO) / 1 changeover contact (CO) number of digital outputs in to paramelitizable 2	relative positive tolerance of the control supply	20 %
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design of short-circuit protection for control circuit 4 A gG fuse ((cu=1 kA), 6 A quick-acting fuse ((cu=1 kA), C1 miniature circuit breaker ((cu= 300 A), is not part of scope of supply Imputs/Outputs interpretation of digital inputs 1 number of digital inputs 3 • not parameterizable 2 of parameterizable 2 of control circuit version 0 switching capacity current of the relay outputs 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting dimensions 33 A mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing aga m aga m width 210 mm depth 203 mm required spacing with side-by-side mounting 0 width 210 mm otowards 0 mm • atowards 10 mm • adowards 75 mm • otornot circuit busbar connection • for control circuit busbar connection • of control circuit screw-type terminals with conductor cross-section = 0.5 mm² maximum 45 mm vith conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m	supply voltage	12.1 ms
Inputs/ Outputs incruit breaker (Icu= 500 A); Is not part of scope of supply number of digital inputs 1 number of digital outputs 3 • not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of alog outputs 0 • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions with vertical mounting surface +/.90° rotatable, with vertical mounting surface +/.90° rotatable, with vertical mounting surface +/.22.5° tittable to the front and back screw fixing fastening method surface +/.22.5° tittable to the front and back screw fixing • forwards 10 mm • depth 203 mm eupwards 10 mm • dockwards 0 mm • upwards 100 mm • dockwards 5 mm • at he side 5 mm • of connection bar maximum 45 mm • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • of DN cable lug for main contacts stranded </th <th>· · ·</th> <th>Varistor</th>	· · ·	Varistor
Inputs/ Outputs Inumber of digital inputs Inumber of digital outputs Inot parameterizable Inot parameterizable Inormally-open contacts (NO) / 1 changeover contact (CO) Inumber of analog outputs Inormally-open contacts (NO) / 1 changeover contact (CO) Inumber of analog outputs Intervention of the relay outputs Intervention output cross-section = 0.5 mm ² maximum Intervention output cross-section = 0.5 mm ² maximum Intervention output cross-section = 0.5	design of short-circuit protection for control circuit	
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number of digital inputs 1 number of digital outputs 3 • not parameterizable 2 digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 0 • at DC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing height 203 mm required spacing with side-by-side mounting 10 mm • forwards 0 mm • upwards 00 mm • downwards 75 mm • at be side 5 mm weight without packaging 9.9 kg Connections/ Terminals 50 m with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 0.5 mm² maximum	lanute/Outpute	
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digital output version number of analog outputs 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 0 switching capacity current of the relay outputs 3 A • at DC-13 at 24 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting fisher to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 10 mm • backwards 0 mm • downwards 75 mm • downwards 75 mm • dith e side 5 mm weight without packaging 9.9 kg Connections/ Terminals busbar connection • for control circuit busbar connection • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with co		
number of analog outputs 0 switching capacity current of the relay outputs 3 A • at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method surface +/-22.5° tiltable to the front and back height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 10 mm • backwards 0 mm • upwards 10 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals 45 mm with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • for DIN cable lug for main contacts stranded 2x (50 240 mm ²)		_
switching capacity current of the relay outputs 3 A • 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/Terminals 50 m type of electrical connection 45 mm • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 50 m	o	
• at AC-15 at 250 V rated value 3 A • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • forwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Torminals type of electrical connection • for main current circuit busbar connection • with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-sections = 1.5 mm ² maximum 50 m • for DIN cable lug for main contacts stranded 2x (50 240 mm ²)	- · ·	0
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Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tittable to the front and back fastening method screw fixing height 393 mm width 210 mm depth 203 mm required spacing with side-by-side mounting 0 mm • backwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals screw-type terminals with of connection bar maximum 45 mm • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-sections 250 m • with conductor cross-sections 25 mm² • for DIN cable lug for main contacts stranded 2x (50 240 mm²)		
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height393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting10 mm• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mm• at the side5 mm• or protections/ Terminalstype of electrical connection• for control circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum45 mmwith conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)		
width210 mmdepth203 mmrequired spacing with side-by-side mounting	-	•
depth203 mmrequired spacing with side-by-side mounting-• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging9.9 kgConnections/ Terminalstype of electrical connectionbusbar connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)	height	393 mm
required spacing with side-by-side mounting 0 • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals 50 m type of electrical connection 5 screw-type terminals • for control circuit busbar connection • for control circuit 50 m width of connection bar maximum 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • for DIN cable lug for main contacts stranded 2x (50 240 mm²)	width	210 mm
• forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 9.9 kg Connections/ Terminals 5 mm type of electrical connection 6 busbar connection • for main current circuit busbar connection • for control circuit screw-type terminals width of connection bar maximum 45 mm with conductor cross-section = 0.5 mm ² maximum 50 m • with conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-section = 2.5 mm ² maximum 250 m type of connectable conductor cross-sections 250 m • for DIN cable lug for main contacts stranded 2x (50 240 mm ²)	•	203 mm
• backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 9.9 kg Connections/Terminals 5 mm type of electrical connection 6 for main current circuit • for control circuit busbar connection • for control circuit screw-type terminals width of connection bar maximum 45 mm with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 50 m • for DIN cable lug for main contacts stranded 2x (50 240 mm²)		
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• downwards 75 mm • at the side 5 mm • at the side 9.9 kg Connections/ Terminals 5 type of electrical connection 6 busbar connection • for main current circuit busbar connection • for control circuit screw-type terminals width of connection bar maximum 45 mm wite length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (50 240 mm²)		
 at the side 5 mm 9.9 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit for connection bar maximum 45 mm width of connection bar maximum 45 mm with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum for main contacts stranded for DIN cable lug for main contacts stranded 	•	
weight without packaging9.9 kgConnections/ Terminalstype of electrical connection 		
Connections/ Terminals type of electrical connection for main current circuit for control circuit busbar connection screw-type terminals width of connection bar maximum 45 mm wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 50 m with conductor cross-section = 1.5 mm² maximum to 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) 		
type of electrical connectionbusbar connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum45 mmwire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)		9.9 kg
• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum45 mmwire length for thermistor connection	Connections/ Terminals	
 for control circuit screw-type terminals 45 mm wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded 2x (50 240 mm²) 	type of electrical connection	
width of connection bar maximum45 mmwire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections2x (50 240 mm²)	 for main current circuit 	busbar connection
wire length for thermistor connection 50 m • 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 250 m • for DIN cable lug for main contacts stranded 2x (50 240 mm²)	 for control circuit 	screw-type terminals
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded 2x (50 240 mm²) 		45 mm
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded 2x (50 240 mm²) 	-	
with conductor cross-section = 2.5 mm ² maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded 2x (50 240 mm ²)		
type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded 2x (50 240 mm²)	 with conductor cross-section = 1.5 mm² maximum 	
• for DIN cable lug for main contacts stranded 2x (50 240 mm ²)		250 m
for DIN cable lug for main contacts finely stranded 2x (70 240 mm ²)	 for DIN cable lug for main contacts stranded 	
	_	

tune of connectable conductor cross costions				
type of connectable conductor cross-sections for control circuit solid 	$1 \times (0.5 \pm 4.0 \text{ mm}^2) 2 \times (0.5 \pm 2.5 \text{ mm}^2)$			
	$1x (0.5 \dots 4.0 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$			
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
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 AC maximum 	100 m			
 at the digital inputs at DC maximum 	1 000 m			
tightening torque				
 for main contacts with screw-type terminals 	14 24 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 	124 210 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	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature				
 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
 during storage and transport 	-40 +80 °C			
environmental category				
• during operation according 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 according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must			
	not get inside the devices), 1M4			
 during transport according 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			
EtherNet/IP	Yes			
EtherNet/IPModbus RTU	Yes Yes			
EtherNet/IPModbus RTUModbus TCP	Yes Yes Yes			
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS 	Yes Yes			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings	Yes Yes Yes			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes Yes			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings 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	Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65			
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings 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 at	Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA			
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings 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 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- 	Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA			
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings 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 at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA			
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