SIEMENS

Data sheet

3RW5546-6HA14



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC Screw 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, Iq = 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>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3340-8; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s

accuracy class

start torque [%]

stopping torque [%] torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable

breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

Yes

Yes

10 ... 100 %

10 ... 100 %

20 ... 200 %

125 ... 800 %

40 ... 100 %

5 (based on IEC 61557-12)

0 ... 2 s 3

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		
current unbalance limiting value [%]	10 60 %		
ground-fault monitoring limiting value [%]	10 95 %		
buffering time in the event of power failure			
 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 protective separation			
between main and auxiliary circuit	480 V; does not apply for thermistor connection		
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		
recovery time after overload trip adjustable	60 1 800 s		
utilization category according to IEC 60947-4-2	AC 53a		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	02/15/2018		
SVHC substance name	Lead - 7439-92-1		
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Lead titanium trioxide - 12060-00-3		
Weight	12.2 kg		
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		
min/max pointer	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 parameterizable via software configurable	Yes		
screw terminal	Yes		
 spring-loaded terminal PROFlenergy 	No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules		
firmware update	Yes		

 removable terminal for control circuit 	Yes
	Yes
voltage ramp	Yes
torque control	
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	
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	070 A
• at 40 °C rated value	370 A
at 40 °C rated value minimum	74 A
• at 50 °C rated value	328 A
at 60 °C rated value	300 A
operational current at inside-delta circuit	C44. h
at 40 °C rated value	641 A
at 50 °C rated value	568 A
at 60 °C rated value	519 A
operating voltage	222 422 1/
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage 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	110 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	200 kW
• at 400 V at 40 °C rated value	200 kW
• at 400 V at inside-delta circuit at 40 °C rated value	355 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 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	111 W
• at 50 °C after startup	98 W
at 60 °C after startup	90 W
power loss [W] at AC at current limitation 350 %	5 500 MI
• at 40 °C during startup	5 563 W
• at 50 °C during startup	4 694 W
at 60 °C during startup	4 145 W
type of the motor protection Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC • at 50 Hz	110 250 V
• at 50 Hz	110 250 V
	-15 %
relative negative tolerance of the control supply voltage at AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %

Factor Space 10 % Control supply voltage frequency 50 % 00 ½ requence any 10 % requence a	rolativo nonitivo toloronas of the control supply welfare of	10.0/		
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Installation/ mounting/ dimensions Vertical (can be rotated +/- 90° and tilled 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 0 mm • downwards 100 mm • at the side 5 mm weight without packaging 10.9 kg Connections/ Terminals 5 mm weight without packaging 0.9 kg Connections/ Terminals screw-type terminals widt of connection tare used 45 mm with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 0.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 24 (50 240 mm²) • for onlo cloruit fiely stranded 2x (70 240 mm²) • for control cloruit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control cloruit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	 at AC-15 at 250 V rated value 			
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• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mmweight without packaging00 kgConnections/ Terminalstype of electrical connection0 kg• for main current circuitbusbar connection• for control circuitscrew-type terminalswith conductor cross-section = 0.5 mm² maximum45 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)• wire length600 m• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 m	required spacing with side-by-side mounting			
• upwards100 mm• downwards75 mm• at the side5 mmweight without packaging10.9 kgConnections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for control circuitscrew-type terminalswidth of connection bar maximum45 mmwith conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 0.5 mm² maximum250 m• with conductor cross-section = 1.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• at the digital inputs at DC maximum1000 m				
• downwards75 mm• at the side5 mmweight without packaging10.9 kgConnections/Terminals5type 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 maximum50 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (20 12), 2x (20 14)wire lengthebtween soft starter and motor maximum• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 m				
• at the side5 mmweight without packaging10.9 kgConnections/ Terminalstype of electrical connection• for main current 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• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for ANVG cables for control circuit solid1x (20 12), 2x (20 14)wire lengthbetween soft starter and motor maximum• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 m	• upwards	100 mm		
weight without packaging 10.9 kg Connections/Terminals type of electrical connection • for main current circuit busbar connection • for control circuit 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 50 m • with conductor cross-section = 2.5 mm² maximum 250 m • with conductor cross-sections 2x (50 240 mm²) • for DIN cable lug for main contacts stranded 2x (70 240 mm²) • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for control circuit solid 1x (20 12), 2x (20 14) wire length ebetween soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1000 m	downwards			
Connections/Terminals type of electrical connection • for main current circuit busbar connection • for control circuit 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 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (50 240 mm²) • for DIN cable lug for main contacts stranded 2x (70 240 mm²) • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit solid 1x (0.5 2.5 mm²) • for control circuit solid 1x (0.5 2.0 mm²), 2x (0.5 2.5 mm²) • 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 1000 m				
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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 m• with conductor cross-sections220 m• type of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for DIN cable lug for main contacts finely stranded1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (20 12), 2x (20 14)• for AWG cables for control circuit solid800 m• at the digital inputs at DC maximum1000 m	Connections/ Terminals			
• 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 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 m	type of electrical connection			
width of connection bar maximum45 mwire 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)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length • between soft starter and motor maximum800 m• at the digital inputs at DC maximum1000 m	 for main current circuit 	busbar connection		
wire 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-sections50 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for connectable conductor cross-sections2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• at the digital inputs at DC maximum1000 m	for control circuit	screw-type terminals		
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• 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)• for DIN cable lug for main contacts stranded2x (70 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections2x (70 240 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• at the digital inputs at DC maximum1 000 m	wire length for thermistor connection			
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• between soft starter and motor maximum800 m• at the digital inputs at DC maximum1 000 m	 with conductor cross-section = 0.5 mm² maximum 	50 m		
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• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections1x (0.5 240 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing • for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length • between soft starter and motor maximum • at the digital inputs at DC maximum800 m• 1000 m1000 m	type of connectable conductor cross-sections			
type of connectable conductor cross-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m• at the digital inputs at DC maximum1 000 m	appe 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 processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length 800 m • at the digital inputs at DC maximum 800 m		2x (50 240 mm²)		
 for control circuit finely stranded with core end processing for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum 800 m 1 000 m 	for DIN cable lug for main contacts stranded			
• for 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	 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded 			
wire length 800 m • between soft starter and motor maximum 800 m • at the digital inputs at DC maximum 1 000 m	for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	2x (70 240 mm²)		
between soft starter and motor maximum at the digital inputs at DC maximum 1 000 m	for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid	2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
• at the digital inputs at DC maximum 1 000 m	for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing	2x (70 240 mm ²) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
	 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid 	2x (70 240 mm ²) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
tightening torque	for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid wire length	2x (70 240 mm ²) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14)		
	for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid wire length between soft starter and motor maximum	2x (70 240 mm ²) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m		

 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
e during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during transport according to IEC 60721	2KZ, 2C1, 231, 2MZ (max. fail fieight 0.5 m)
Environmental footprint	
Global Warming Potential [CO2 eq] total	833 kg
Global Warming Potential [CO2 eq] during manufacturing	95.3 kg
global warming potential [CO2 eq] during sales	2.8 kg
Global Warming Potential [CO2 eq] during operation	756 kg
Global Warming Potential [CO2 eq] after end of life	-21 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Electromagnetic compatibility	
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	Yes
 PROFINET high-feature 	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 18 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; lq = 100 kA
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; lq = 18 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 1200 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	100 hp
 at 220/230 V at 50 °C rated value 	100 Hp
a at 460/490 V/ at 50 °C rated value	125 hp
 at 460/480 V at 50 °C rated value 	
 at 400/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value 	125 hp
	125 hp 250 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	125 hp 250 hp 200 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value 	125 hp 250 hp 200 hp 200 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value 	125 hp 250 hp 200 hp 200 hp 450 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL 	125 hp 250 hp 200 hp 200 hp 450 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety 	125 hp 250 hp 200 hp 200 hp 450 hp R300-B300
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety protection class IP on the front according to IEC 60529 	125 hp 250 hp 200 hp 200 hp 450 hp R300-B300
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 	125 hp 250 hp 200 hp 200 hp 450 hp R300-B300
at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating	125 hp 250 hp 200 hp 200 hp 450 hp R300-B300 IP00; IP20 with cover finger-safe, for vertical contact from the front with cover

hardware fault tolerance according to ATEX	EC 61508 relating to	0		
T1 value for proof test interval or serv IEC 61508 relating to ATEX	vice life according to	3а		
certificate of suitability				
• ATEX		Yes		
• IECEx		Yes		
 according to ATEX directive 2014 		BVS 18 ATEX F 003 X		
type of protection according to ATEX		II (2)G [Ex eb Gb] [Ex db Gb]	I [Ex pyh Gh] II (2)D [Ex th	Dhi (Ex nxh Dhi 1 (M2)
		[Ex db Mb]	ן (בא אלט 35), וו (ב)ט (בא נט	
oprovals Certificates			_	
General Product Approval				
	CE EG-Konf.	<u>Confirmation</u>		EHC
EMV	For use in hazar	dous locations	Test Certificates	Marine / Shipping
KC RCM	IECEX	ATEX	Type Test Certific- ates/Test Report	ABS
Marine / Shipping		other	Environment	
BUREAU VERITAS	PRS PRS	<u>Confirmation</u>	EPD	Siemens EcoTech
Environment				
Environmental Con- firmations				

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5546-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-6HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5546-6HA14&lang=en

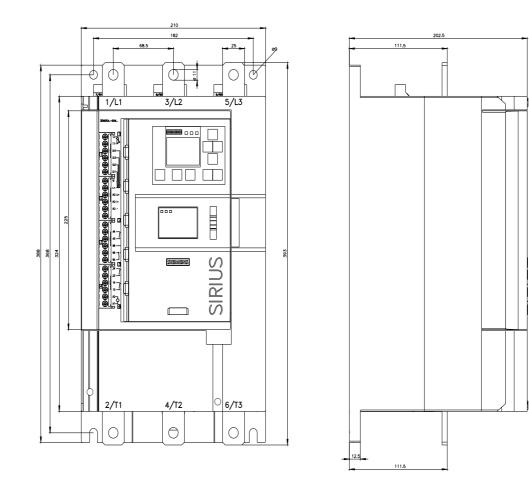
Characteristic: Tripping characteristics, I2t, Let-through current

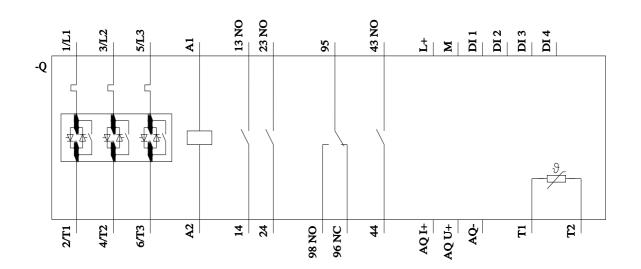
https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HA14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5546-6HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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





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