SIEMENS

Data sheet

3RW5534-6HA16



SIRIUS soft starter 200-690 V 113 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 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2220-7MN32-0AA0: Type of coordination 1. Iq = 65 kA. CLASS 10</u>			
 of the gG fuse usable up to 690 V 	<u>3NA3244-6: Type of coordination 1, Iq = 65 kA</u>			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3244-6; Type of coordination 1, Iq = 65 kA</u>			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1225-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3231: Type of coordination 2. lq = 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 marking	Yes			

	Vac				
UL approval	Yes				
CSA approval	Yes				
product component	Vec				
HMI-High Feature	Yes Yes				
is supported HMI-High Feature	Yes				
product feature integrated bypass contact system					
number of controlled phases	3 CLASS 104 / 105 (default) / 205 / 205; peo to USC 60047.4.2				
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	400				
for main current circuit	100 ms				
for control circuit	100 ms				
idle time adjustable	0 255 s				
insulation voltage rated value	690 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	8 kV				
blocking voltage of the thyristor maximum	1 800 V				
service factor	1.15				
surge voltage resistance rated value	8 kV				
maximum permissible voltage for safe isolation					
between main and auxiliary circuit	690 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)				
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick				
 inside-delta circuit 	Yes; Only up to 600 V operating voltage				
● auto-RESET	Yes				
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	Yes				
 spring-type terminal 	No				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules				
firmware update	Yes				
 removable terminal for control circuit 	Yes				

	Vee				
voltage ramp	Yes				
torque control	Yes				
combined braking	Yes Yes: 4 20 mA (default) / 0 10 \/				
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 	113 A				
 at 40 °C rated value minimum 	23 A				
 at 50 °C rated value 	101 A				
at 60 °C rated value	89 A				
operational current at inside-delta circuit					
 at 40 °C rated value 	196 A				
• at 50 °C rated value	175 A				
• at 60 °C rated value	154 A				
operating voltage					
 rated value 	200 690 V				
 at inside-delta circuit rated value 	200 600 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage	10 %				
relative negative tolerance of the operating voltage at	-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 	30 kW				
 at 230 V at inside-delta circuit at 40 °C rated value 	55 kW				
• at 400 V at 40 °C rated value	55 kW				
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	55 KW 110 KW				
• at 400 V at inside-delta circuit at 40 °C rated value	110 kW				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 	110 kW 75 kW				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 	110 kW 75 kW 132 kW				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value 	110 kW 75 kW 132 kW 110 kW				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value	110 kW 75 kW 132 kW 110 kW 50 Hz				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 %				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 %				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 %				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 %	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C after startup at 40 °C during startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C after startup at 40 °C during startup at 40 °C during startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 % Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °C during startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C after startup at 40 °C during startup at 40 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W Electronic, tripping in the event of thermal overload of the motor				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 40 °C during startup at 60 °C during startup type of the motor protection 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W Electronic, tripping in the event of thermal overload of the motor				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 40 °C during startup at 60 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 % 10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W Electronic, tripping in the event of thermal overload of the motor				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 60 °C during startup at 60 °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 	110 kW 75 kW 132 kW 110 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le 34 W 30 W 27 W 1 500 W 1 279 W 1 074 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V				

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 %				
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %				
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 current in standby mode rated value	100 mA				
holding current in bypass operation rated value	180 mA				
locked-rotor current at close of bypass contact maximum	0.8 A				
inrush current peak at application of control supply voltage maximum	43 A				
duration of inrush current peak at application of control supply voltage	1.6 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	3				
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs					
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	306 mm				
width	185 mm				
depth	203 mm				
required spacing with side-by-side mounting	200 mm				
forwards	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards	75 mm				
at the side	5 mm				
weight without packaging	6.85 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	busbar connection				
for control circuit	screw-type terminals				
width of connection bar maximum	25 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 mm ² maximum	250 m				
type of connectable conductor cross-sections					
for DIN cable lug for main contacts stranded	2x (16 95 mm²)				

 for DIN cable lug for main contacts finely stranded 	2x (25 120 mm²)				
type of connectable conductor cross-sections					
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm ²), 2x (0.5 2.5 mm ²)				
processing					
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)				
wire length					
between soft starter and motor maximum	800 m				
at the digital inputs at DC maximum	1 000 m				
 tightening torque for main contacts with screw-type terminals 	10 14 N·m				
 for auxiliary and control contacts with screw-type 	10 14 N·m 0.8 1.2 N·m				
terminals	0.0 1.2 N III				
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	89 124 lbf·in				
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog				
ambient temperature	2 000 m, berating as or 1000 m, see catalog				
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or				
	above				
 during storage and transport 	-40 +80 °C				
environmental category					
 during operation acc. to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must				
	not get inside the devices), 1M4				
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
EMC emitted interference	acc. to IEC 60947-4-2: Class A				
Communication/ Protocol					
Communication/ Protocol communication module is supported					
communication module is supported • PROFINET standard	Yes				
communication module is supported • PROFINET standard • PROFINET high-feature	Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • 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	Yes Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • 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: 3VA52, max. 250 A; lq = 10 kA				
communication module is supported PROFINET standard PROFINET high-feature 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 Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA				
 communication module is supported PROFINET standard PROFINET high-feature 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 at inside-delta circuit according to UL	Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA				
 communication module is supported PROFINET standard PROFINET high-feature 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-delta circuit according to UL 	Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA				
 communication module is supported PROFINET standard PROFINET high-feature 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 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- 	Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA				
 communication module is supported PROFINET standard PROFINET high-feature 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 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 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 Standard Faults at 575/600 V at inside-delta circuit according to UL 	Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA				
 communication module is supported PROFINET standard PROFINET high-feature 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 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 at inside-delta circuit according to UL usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Siemens type: 3VA52, max. 250 A; lq = 10 kA				
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	High Faults at inside-d	elta circuit up	Туре	e: Class J / L, max. 350) A; Iq = 100 kA		
	according to UL						
] for 3-phase motors						
	50 °C rated value		30 h	•			
	50 °C rated value		30 hp				
	50 °C rated value		75 h	75 hp			
 at 575/600 V at 	50 °C rated value		100 hp				
● at 200/208 V at value	inside-delta circuit at 5	0 °C rated	50 hp				
● at 220/230 V at value	inside-delta circuit at 5	0 °C rated	60 hp				
● at 460/480 V at value	inside-delta circuit at 5	0 °C rated	125 hp				
● at 575/600 V at value	inside-delta circuit at 5	0 °C rated	150 hp				
contact rating of aux	xiliary contacts accor	ding to UL	R300-B300				
Safety related data	,	0					
-	on the front acc. to IE	2 60529	IP00	; IP20 with cover			
	the front acc. to IEC				tact from the front with	00/07	
•		00529				cover	
electromagnetic con	npatibility		acc.	to 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			G [Ex eb Gb] [Ex db G 2) [Ex db Mb]	b] [Ex pxb Gb], II (2)D	[Ex tb Db] [Ex pxb Db],	
hardware fault tolerance acc. to IEC 61508 relating to ATEX		0					
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX		0.00	0.008				
PFHD with high demand rate acc. to EN 62061 relating to ATEX		0.0000005 1/h					
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX		SIL1					
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX		3 у					
Certificates/ approvals							
						For use in hazard-	
General Product Ap	proval				EMC	ous locations	
	\bigcirc				•		
(SP	((\!L)		FHI	Ø	⟨£x⟩	
CSA	ccc	UL			RCM	ATEX	
For use in hazard-	Declaration of	Test Certifica	ates	Marine / Shipping			
ous locations	Conformity						
IECEx	(6	<u>Type Test Ce</u> ates/Test Re				Lloyds	
IECEx	EG-Konf.			ABS		Register	
					VERITAS		
other							
Confirmation							

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=3RW5534-6HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5534-6HA16

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HA16

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5534-6HA16&lang=en

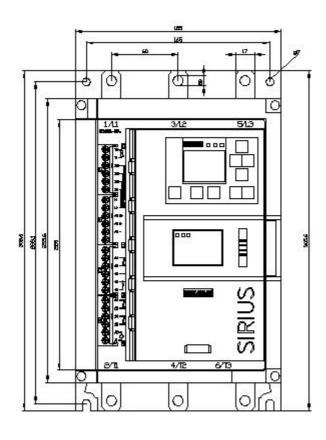
Characteristic: Tripping characteristics, I²t, Let-through current

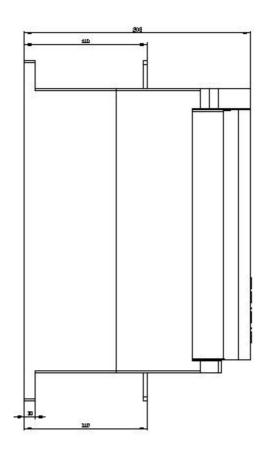
https://support.industry.siemens.com/cs/ww/en/ps/3RW5534-6HA16/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5534-6HA16&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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