## **SIEMENS**

Data sheet 3RW5543-6HA06



SIRIUS soft starter 200-690 V 210 A, 24 V AC/DC Screw terminals

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1230-2; for supply systems up to 500 V; type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3333: Type of coordination 2, Iq = 65 kA

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

	F 0/
accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	W
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	
<ul> <li>for main current circuit</li> </ul>	100 ms
<ul> <li>for control circuit</li> </ul>	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
reserving doug and, to IEO 0 1340°Z	
Substance Prohibitance (Date) product function	15.02.2018 00:00:00
Substance Prohibitance (Date) product function	
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)	15.02.2018 00:00:00
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)	15.02.2018 00:00:00 Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse	15.02.2018 00:00:00  Yes Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation	15.02.2018 00:00:00  Yes Yes Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation	15.02.2018 00:00:00  Yes Yes Yes Yes Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes
Substance Prohibitance (Date)  product function	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Substance Prohibitance (Date)  product function      ramp-up (soft starting)     ramp-down (soft stop)     breakaway pulse     adjustable current limitation     creep speed in both directions of rotation     pump ramp down     DC braking     motor heating     slave pointer function     trace function     intrinsic device protection	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Substance Prohibitance (Date)  product function	15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Substance Prohibitance (Date)  product function	Yes
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Substance Prohibitance (Date)  product function	Yes
Substance Prohibitance (Date)  product function	Yes
Substance Prohibitance (Date)  product function	Yes
Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable • via software configurable • screw terminal	Yes
Substance Prohibitance (Date)  product function	Yes

	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
<ul> <li>emergency operation mode</li> </ul>	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	210 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	42 A
<ul> <li>at 50 °C rated value</li> </ul>	186 A
at 60 °C rated value	170 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	364 A
<ul> <li>at 50 °C rated value</li> </ul>	322 A
at 60 °C rated value	294 A
operating voltage	
• rated value	200 690 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	55 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	110 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	132 kW
• at 500 V at inside-delta circuit at 40 °C rated value	250 kW
at 690 V at 40 °C rated value	200 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	CO.W.
• at 40 °C after startup	63 W
• at 50 °C after startup	56 W
• at 60 °C after startup	51 W
power loss [W] at AC at current limitation 350 %	3 550 W
at 40 °C during startup     at 50 °C during startup	3 550 W
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	2 967 W 2 605 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Electronic, hipping in the event of thermal overload of the motor
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	NOIDO

• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	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	
Inputs/ Outputs number of digital inputs	4
	4 4
number of digital inputs	
number of digital inputs  • parameterizable	4
number of digital inputs  • parameterizable  number of inputs for thermistor connection	4 1; Type A PTC or Klixon / Thermoclick
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs	4 1; Type A PTC or Klixon / Thermoclick 4
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable	4 1; Type A PTC or Klixon / Thermoclick 4 3
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable	1; Type A PTC or Klixon / Thermoclick  4 3 1
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1  3 A 1 A
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1  3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1  3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1  3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm
number of digital inputs  • parameterizable  number of inputs for thermistor connection  • number of digital outputs  • number of digital outputs parameterizable  • number of digital outputs not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1  3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs	1; Type A PTC or Klixon / Thermoclick  4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)  1 3 A 1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm

• for control circuit	screw-type terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
for DIN cable lug for main contacts stranded	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	404 040 lbs :-
for main contacts with screw-type terminals	124 210 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	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 III, Detailing as of 1000 III, see calalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
adming operation	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
during transport ( ) UEO 00701	not get inside the devices), 1M4
• during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
EtherNet/IP	Yes
<ul><li>Modbus RTU</li></ul>	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
<ul> <li>of circuit breaker</li> </ul>	
<ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA
<ul> <li>usable for High Faults at 575/600 V at insidedelta circuit according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA

- usable for Standard Faults at 575/600 V at Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 10 kA inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class J / L, max. 700 A; Iq = 10 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 700 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 700 A; Iq = 10 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 700 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors 60 hp • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value 60 hp at 460/480 V at 50 °C rated value 150 hp • at 575/600 V at 50 °C rated value 150 hp • at 200/208 V at inside-delta circuit at 50 °C rated 100 hp • at 220/230 V at inside-delta circuit at 50 °C rated 125 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 250 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 300 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data IP00; IP20 with cover protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover electromagnetic compatibility acc. to IEC 60947-4-2 ATEX certificate of suitability ATEX Yes IFCFx Yes • according to ATEX directive 2014/34/EU **BVS 18 ATEX F 003 X** II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], type of protection according to ATEX directive 2014/34/EU I (M2) [Ex db Mb] Ω hardware fault tolerance acc. to IEC 61508 relating to **ATEX** 0.008 PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 0.0000005 1/h to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL<sub>1</sub> to ATEX T1 value for proof test interval or service life acc. to 3 y IEC 61508 relating to ATEX Certificates/ approvals For use in hazard-**EMC General Product Approval** ous locations













For use in hazardous locations Declaration of Conformity

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







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=3RW5543-6HA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5543-6HA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5543-6HA06

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5543-6HA06&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

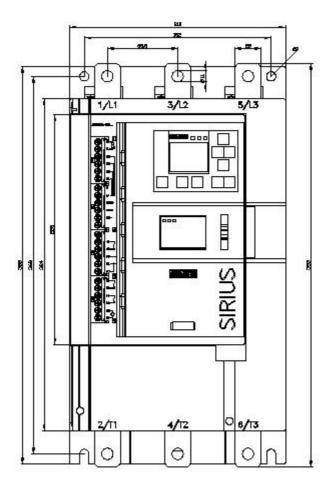
https://support.industry.siemens.com/cs/ww/en/ps/3RW5543-6HA06/char

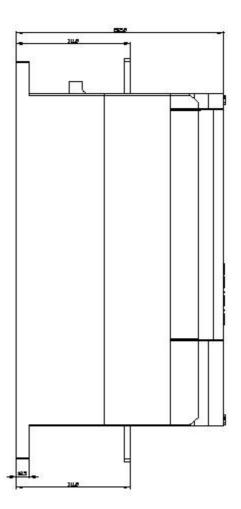
Characteristic: Installation altitude

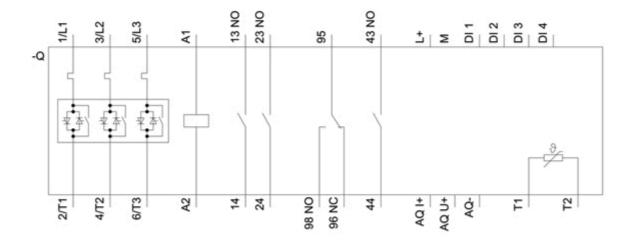
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5543-6HA06&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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