## **SIEMENS**

Data sheet 3RW5553-6HA04



SIRIUS soft starter 200-480 V 720 A, 24 V AC/DC Screw terminals

Figure similar

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>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; 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>	3NB3351-1KK26; 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>	3NC3343-1U; Type of coordination 2, Iq = 65 kA
usable up to 690 V	

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
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	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 %
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	11.02.2019 00:00:00
product function	
product function	Yes
product function • ramp-up (soft starting)	Yes Yes
product function  ■ ramp-up (soft starting)  ■ ramp-down (soft stop)	
product function	Yes
<ul> <li>product function</li> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> </ul>	Yes Yes Yes
<ul> <li>product function</li> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> </ul>	Yes Yes
product function	Yes Yes Yes Yes
product function	Yes Yes Yes Yes Yes Yes
product function	Yes Yes Yes Yes Yes Yes Yes
product function	Yes Yes Yes Yes Yes Yes Yes Yes Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes
product function	Yes

PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-
	Feature communication modules
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul><li>analog output</li></ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul><li>condition monitoring</li></ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	720 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	144 A
<ul> <li>at 50 °C rated value</li> </ul>	641 A
at 60 °C rated value	580 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	1 247 A
<ul> <li>at 50 °C rated value</li> </ul>	1 110 A
at 60 °C rated value	1 005 A
operating voltage	
<ul> <li>rated value</li> </ul>	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	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>	200 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	400 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	400 kW
	-100 KVV
at 400 V at inside-delta circuit at 40 °C rated value	710 kW
at 400 V at inside-delta circuit at 40 °C rated value     Operating frequency 1 rated value	
	710 kW
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	710 kW 50 Hz
Operating frequency 1 rated value Operating frequency 2 rated value	710 kW 50 Hz 60 Hz
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	710 kW 50 Hz 60 Hz -10 %
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	710 kW 50 Hz 60 Hz -10 % 10 %
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 [%]	710 kW 50 Hz 60 Hz -10 % 10 %
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	710 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le
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	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le
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  power loss [W] at AC at current limitation 350 %	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °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	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor
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  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °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	710 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le  216 W 170 W 139 W  11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor

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	
<ul> <li>at DC rated value</li> </ul>	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	1 100 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	4
number of digital outputs parameterizable	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	0.4
at AO-13 at 250 V Tated Value	3 A
• at DC-13 at 24 V rated value	1 A
at DC-13 at 24 V rated value	
• at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method	1 A  Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position fastening method height width depth	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm
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	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> </ul>	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm
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 backwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm
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 backwards upwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm
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 backwards upwards downwards	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm
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 backwards upwards downwards at the side	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm
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 backwards backwards upwards downwards at the side  weight without packaging	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm
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	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm
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 backwards backwards upwards downwards at the side  weight without packaging  Connections/ Terminals type of electrical connection	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 45 kg
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 backwards backwards downwards downwards at the side weight without packaging  Connections/ Terminals  type of electrical connection for main current circuit	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 45 kg
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 backwards backwards upwards downwards at the side  weight without packaging  Connections/ Terminals type of electrical connection	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 764 mm 478 mm 241 mm  10 mm 0 mm 100 mm 75 mm 5 mm 45 kg

	_
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 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 mm²), 2x (0.5 1.5 mm²)
processing	4(00 40) 0(00 44)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	800 m
between soft starter and motor maximum     at the digital inputs at DC maximum	1 000 m
at the digital inputs at DC maximum  #ightoning torque	1 000 111
tightening torque  • for main contacts with screw-type terminals	20 35 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2 N III
tightening torque [lbf·in]	
for main contacts with screw-type terminals	177 310 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	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	
<ul><li>during operation</li></ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or
di inima a salama na ana di Anana na ant	above
during storage and transport	-40 +80 °C
environmental category	2K6 (no ice formation, only occasional condensation), 2C2 (no calt
<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
	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
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	Type: Class J / L, max. 2000 A; Iq = 42 kA
according to UL	Turner Oleres I / I
usable for High Faults up to 575/600 V     according to UL	Type: Class J / L, max. 2000 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 2000 A; Iq = 42 kA
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 2000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	200 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	250 hp
• at 460/480 V at 50 °C rated value	500 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> </ul>	500 hp 400 hp

<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	450 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	950 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008
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 y
Certificates/ approvals	



**General Product Approval** 









**EMC** 



For use in hazard-

ous locations

For use in hazardous locations **Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other



IECEx



Type Test Certificates/Test Report





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=3RW5553-6HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-6HA04

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA04}}$ 

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW5553-6HA04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

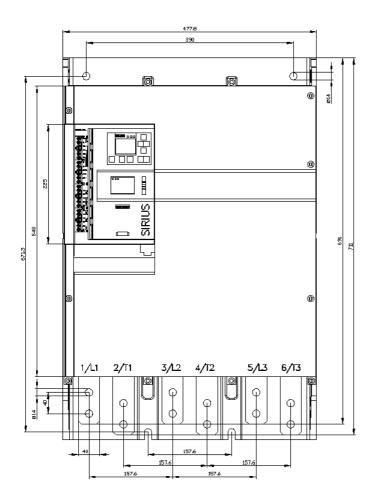
https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA04/char

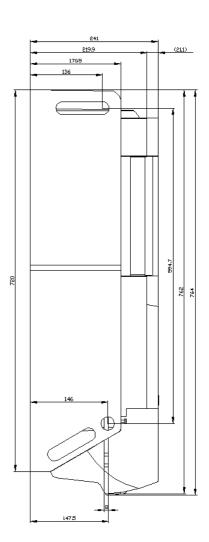
Characteristic: Installation altitude

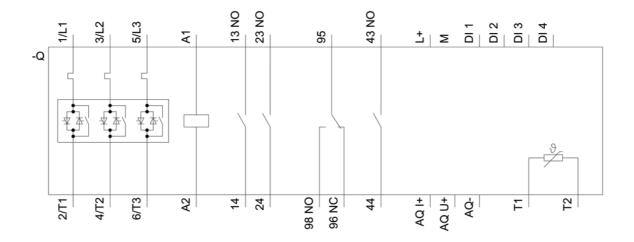
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5553-6HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 3/9/2021 🖸