## **SIEMENS**

Data sheet 3RW5553-6HA06

SIRIUS



SIRIUS soft starter 200-690 V 720 A, 24 V AC/DC Screw terminals

Figure similar

product brand name

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
• of communication module PROFINET high-feature usable	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
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	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
eneral 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
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	5 (based on IEC 61557-12)
certificate of suitability	
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 %
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	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 protective separation	
between main and auxiliary circuit	690 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)	02/11/2019
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse     disease by a support limited to a	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down     DO broking	Yes
DC braking     motor booting	Yes
motor heating	Yes
slave pointer function	Yes Yes
trace function     intrinsic device protection	Yes
intrinsic device protection	Yes; Full motor protection (thermistor motor protection and electronic motor
motor overload protection	overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
• event list	Yes
• error logbook	Yes
• via software parameterizable	Yes
via software configurable	Yes
screw terminal	Yes
spring-loaded terminal	No
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
voltage ramp	Yes
• torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes

automatic parameterisation	Yes
application wizards	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	
• at 40 °C rated value	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	
• 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	
• at 230 V at 40 °C rated value	200 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	400 kW
• at 400 V at 40 °C rated value	400 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	710 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	500 kW
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	800 kW
• at 690 V at 40 °C rated value	710 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	
<ul> <li>at 40 °C after startup</li> </ul>	216 W
• at 50 °C after startup	170 W
at 60 °C after startup	139 W
power loss [W] at AC at current limitation 350 $\%$	
• at 40 °C during startup	11 534 W
• at 50 °C during startup	9 773 W
at 60 °C during startup	8 497 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• 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 %
*************	

1,0 40 11 20 11	40.07
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	-20 %
DC	
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
inrush current by closing the bypass contacts 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
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of digital outputs not parameterizable	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>	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	764 mm
width	478 mm
depth	241 mm
required spacing with side-by-side mounting	
<ul><li>forwards</li></ul>	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	75 mm
at the side	5 mm
weight without packaging	45 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	55 mm
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	
7,000	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
••	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for control circuit solid	
for control circuit solid     for control circuit finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

<ul> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>communication/ Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> </ul>	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
• for auxiliary and control contacts with screw-type terminals  tightening torque [Ibf-in]     • for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     • during operation     • during storage and transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication Protocol  communication module is supported  • PROFINET standard     • PROFINET high-feature     • Modbus RTU     • Modbus RTU     • Modbus TCP  O 10.8 1.2 N·m  177 310 lbf-in  7 10.3 lbf-in	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
terminals  tightening torque [lbf·in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication Module is supported  • PROFINET standard • PROFINET standard • PROFINET high-feature • Modbus RTU • Modbus RTU • Modbus TCP  • Modbus TCP  177 310 lbf-in  17 10.3 lbf-in  187 10.3 lbf-in  188 (no ice formation, only occasional condensation of the device of	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 cices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
• for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type     terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     • during operation     • during storage and transport  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication Module is supported  • PROFINET standard  • PROFINET standard  • PROFINET high-feature  • Modbus RTU  • Modbus TCP  177 310 lbf-in  7 10.3 lbf-in  10.3 lbf-in  10.4 life in  10.5 life in  10.6 life in  10.6 life in  10.6 life in  10.8 li	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage and transport  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP  • during transport according to IEC 60721  • Yes • Modbus TCP  • Modbus TCP  • Modbus TCP	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage and transport  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication / Protocol  communication module is supported  • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • Ves	derating at temperatures of 40 °C or above casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
<ul> <li>during operation</li> <li>during storage and transport</li> <li>during storage and transport</li> <li>during operation according to IEC 60721</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>communication/ Protocol</li> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> </ul>	casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
during storage and transport      environmental category     during operation according to IEC 60721     during storage according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721     during transport according to IEC 60721     EMC emitted interference     during transport according to IEC 60721     EMC emitted interference     during transport according to IEC 60721     during transport according to IEC	casional condensation), 3C3 (no salt mist), 3S2 vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  3K6 (no ice formation, only occasional condensation, only occasional condensation, only occasional condensation, only occasional condensations and must not get into the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K3, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K4, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K4, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K4, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K5, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K6, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K6, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K7, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K7, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  3K6 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protocol  2K7, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class Accommunication/ Protoco	vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  3K6 (no ice formation, only occasional condensation, only occasional condensation, only occasional condensation, only occasional condensation the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K2, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K3, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K4, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K5, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K6, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K7, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K8, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K8, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K8, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9, 2C1, 2S1, 2M2 (max. fall if acc. to IEC 60947-4-2: Class A communication/ Protocol  2K9,	vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
• during operation according to IEC 60721     • during storage according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721     • during transport according to IEC 60721     • EMC emitted interference     • Communication/ Protocol  communication module is supported     • PROFINET standard     • PROFINET high-feature     • EtherNet/IP     • Modbus RTU     • Modbus TCP  3K6 (no ice formation, only occal (sand must not get into the devices), 1M4  1K6 (only occasional condensations) 1K6 (only occasional condensa	vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
(sand must not get into the devi     during storage according to IEC 60721     1K6 (only occasional condensarinside the devices), 1M4     • during transport according to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall has been supported acc. to IEC 60947-4-2: Class A communication/ Protocol  communication module is supported     • PROFINET standard     • PROFINET high-feature     • EtherNet/IP     • Modbus RTU     • Modbus TCP     (sand must not get into the devices)     1K6 (only occasional condensarinside the devices), 1M4     2K2, 2C1, 2S1, 2M2 (max. fall has been supported acc. to IEC 60947-4-2: Class A communication/ Protocol     ves	vices), 3M6 ation), 1C2 (no salt mist), 1S2 (sand must not get height 0.3 m)
inside the devices), 1M4  • during transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall h  2K2, 2C1, 2S1, 2M2 (max. fa	height 0.3 m)
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	
Communication/ Protocol  communication module is supported  • PROFINET standard Yes  • PROFINET high-feature Yes  • EtherNet/IP Yes  • Modbus RTU Yes  • Modbus TCP Yes	
communication module is supported  • PROFINET standard Yes  • PROFINET high-feature Yes  • EtherNet/IP Yes  • Modbus RTU Yes  • Modbus TCP Yes	
<ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	
<ul> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	
<ul><li>Modbus RTU</li><li>Modbus TCP</li><li>Yes</li></ul>	
Modbus TCP  Yes	
- PROFINIS	
• 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; according to UL	; Iq = 42 kA
— usable for High Faults up to 575/600 V according to Type: Class J / L, max. 2000 A; UL	; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Type: Class J / L, max. 2000 A;</li> </ul>	; Iq = 42 kA
<ul> <li>usable for High Faults at inside-delta circuit up to</li> <li>575/600 V according to UL</li> </ul> Type: Class J / L, max. 2000 A;	; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value 200 hp	
• at 220/230 V at 50 °C rated value 250 hp	
• at 460/480 V at 50 °C rated value 500 hp	
• at 575/600 V at 50 °C rated value 700 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value 400 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value 450 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value 950 hp	
• at 575/600 V at inside-delta circuit at 50 °C rated value 1 250 hp	
contact rating of auxiliary contacts according to UL R300-B300	
Safety related data	
protection class IP on the front according to IEC 60529 IP00	
electromagnetic compatibility acc. to IEC 60947-4-2	
ATEX	
certificate of suitability	
• ATEX Yes	
• IECEx Yes	
according to ATEX directive 2014/34/EU     BVS 18 ATEX F 003 X	
3	Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2)
hardware fault tolerance according to IEC 61508 relating to ATEX	
PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX	
PFHD with high demand rate according to EN 62061 relating 5E-7 1/h	

to ATEX

Safety Integrity Level (SIL) according to IEC 61508 relating

to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

SIL1

3 a

Certificates/ approvals

**General Product Approval** 

**EMC** 



Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5553-6HA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-6HA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA06

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5553-6HA06&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

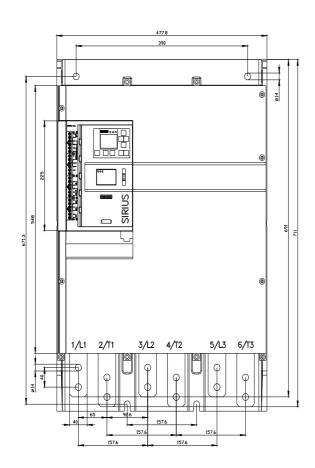
https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA06/char

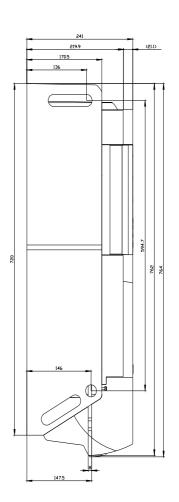
Characteristic: Installation altitude

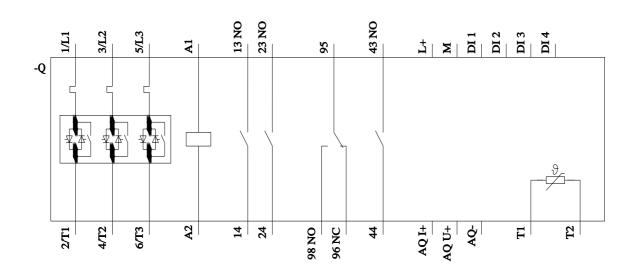
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5553-6HA06\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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