## **SIEMENS**

Data sheet 3RW5526-1HA06



SIRIUS soft starter 200-690 V 77 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>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3132-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3132-6; 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>	3NE1224-0; 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>	3NE3227; 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 01340°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
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul><li>reversing operation</li></ul>	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>	77 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	16 A
<ul> <li>at 50 °C rated value</li> </ul>	68 A
at 60 °C rated value	62 A
operational current at inside-delta circuit	
• at 40 °C rated value	133 A
• at 50 °C rated value	118 A
at 60 °C rated value	107 A
operating voltage	000 0001/
• rated value	200 690 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	-10 /0
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>	22 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	75 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	45 kW
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	90 kW
at 690 V at 40 °C rated value	75 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 % 10 %
relative positive tolerance of the operating frequency minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	10 /u, i tolativo to sot io
• at 40 °C after startup	23 W
at 50 °C after startup	20 W
at 60 °C after startup	19 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	1 083 W
at 50 °C during startup	921 W
at 60 °C during startup	814 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 %
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	870 mA
locked-rotor current at close of bypass contact maximum	6.3 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)
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 306 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 306 mm 185 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 306 mm 185 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 306 mm 185 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 306 mm 185 mm 203 mm  10 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  • backwards	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 306 mm 185 mm 203 mm  10 mm 0 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  • backwards  • upwards	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  306 mm  185 mm  203 mm  10 mm  0 mm  100 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 306 mm 185 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 306 mm 185 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 306 mm 185 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 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm

for control circuit	screw-type terminals
width of connection bar maximum	25 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
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
type of connectable conductor cross-sections	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)
for main contacts for box terminal using both clamping points solid	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 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	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-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
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport acc. to IEC 60721</li> </ul>	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	
Sommanication module is supported	

<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
<ul><li>EtherNet/IP</li></ul>	Yes
<ul> <li>Modbus RTU</li> </ul>	Yes
<ul> <li>Modbus TCP</li> </ul>	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of circuit breaker	
<ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA51, max. 125 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: 3VA51, max. 125 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
<ul> <li>usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
• of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 250 A; Iq = 10 kA
usable for High Faults up to 575/600 V     according to UL	Type: Class J / L, max. 250 A; Iq = 100 kA
usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 250 A; Iq = 10 kA
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 250 A; Iq = 100 kA
operating power [hp] for 3-phase motors	00.1
• at 200/208 V at 50 °C rated value	20 hp
• at 220/230 V at 50 °C rated value	25 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	50 hp
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	60 hp
at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp
at 220/230 V at inside-delta circuit at 50 °C rated value	40 hp
at 460/480 V at inside-delta circuit at 50 °C rated value  1.575/200 V 4 in idea by the inside the first control of the c	75 hp
at 575/600 V at inside-delta circuit at 50 °C rated value	100 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	IDOS IDOS III
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
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
• IECEx	Yes
according to ATEX directive 2014/34/EU	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	0.0000005 1/h

to ATEX

Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX

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

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Certificates/ approvals

**General Product Approval** 

**EMC** 

For use in hazardous 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=3RW5526-1HA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5526-1HA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-1HA06

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5526-1HA06&lang=en

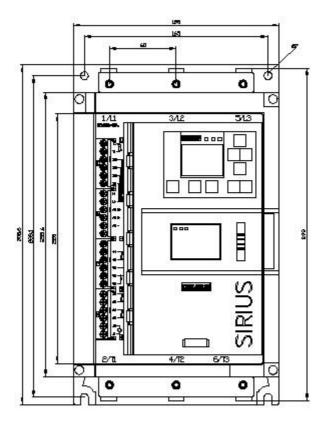
Characteristic: Tripping characteristics, I2t, Let-through current

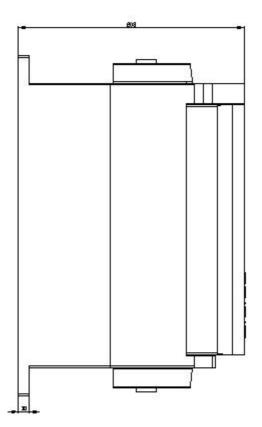
https://support.industry.siemens.com/cs/ww/en/ps/3RW5526-1HA06/char

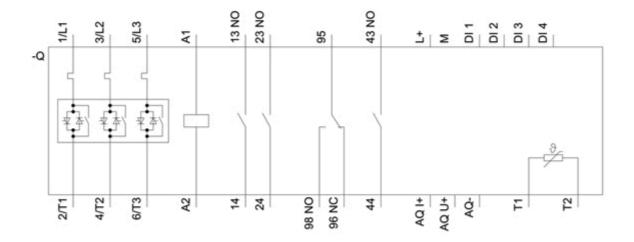
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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