# SIEMENS

### Data sheet

### 3RW5515-3HA04



SIRIUS soft starter 200-480 V 25 A, 24 V AC/DC spring-type 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>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1. lq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4VA10: Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10</u>
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3822-6; Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1817-0: Type of coordination 2. Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8021-1: Type of coordination 2. Iq = 65 kA</u>
eneral 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
<ul> <li>is supported HMI-High Feature</li> </ul>	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
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	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	480 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
VIDIAION TESIStance	
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • inside-delta circuit         • auto-RESET         • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • motor RESET         • manual RESET         • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • motor RESET         • manual RESET         • remote reset         • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • motor RESET         • remote reset         • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • motor eletta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         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         • motor overload protection         • auto-RESET         • manual RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2         Substance Prohibitance (Date)         product function <ul> <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> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> <li>slave pointer function</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> </ul> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li>	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes

	N
spring-type terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- 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
	Yes
programmable control inputs/outputs     condition monitoring	Yes
condition monitoring	Yes
automatic parameterisation	
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	25 A
• at 40 °C rated value minimum	5 A
• at 50 °C rated value	22.3 A
at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
• at 60 °C rated value	33.9 A
operating voltage	222 422.14
rated value	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 % -15 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	5.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	11 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	11 kW
at 400 V at inside-delta circuit at 40 °C rated value	18.5 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	
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	0.14/
• at 40 °C after startup	8 W
• at 50 °C after startup	7 W
• at 60 °C after startup	6 W
power loss [W] at AC at current limitation 350 %	364 W
• at 40 °C during startup	364 W 309 W
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	262 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
<ul> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> </ul>	24 V
■ at ou mz rateu 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	
<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	420 mA
holding current in bypass operation rated value	820 mA
locked-rotor current at close of bypass contact maximum	0.91 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
han set a la contracta	
Inputs/ Outputs	
number of digital inputs	4
	4 4
number of digital inputs	
number of digital inputs <ul> <li>parameterizable</li> </ul>	4
number of digital inputs <ul> <li>parameterizable</li> </ul> number of inputs for thermistor connection	4 1; Type A PTC or Klixon / Thermoclick
number of digital inputs <ul> <li>parameterizable</li> </ul> <li>number of inputs for thermistor connection <ul> <li>number of digital outputs</li> </ul> </li>	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	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         • number of digital outputs parameterizable         • number of digital outputs not parameterizable	4 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         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable	4 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         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 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 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	4 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         • 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	4 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 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	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 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         • 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	4 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         • 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	4 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 275 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         • 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	4 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 275 mm 170 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         • 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	4 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 275 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         • 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	4 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 275 mm 170 mm 152 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         • 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	4 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 275 mm 170 mm 152 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         • 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	4 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 275 mm 170 mm 152 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         • 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         • upwards	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 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         • 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         • downwards	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 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         • 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         • at the side	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 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         • at the side	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 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         oforwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 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         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 mm 5 mm 2.3 kg
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         oforwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals	4 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 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 mm

wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
<ul> <li>at AWG cables for main current circuit solid</li> </ul>	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )
processing	
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with</li> </ul>	2x (24 16)
core end processing	
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>	2 2.5 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>	18 22 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
	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
<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
<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	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	acc. to IEC 60947-4-2: Class A
	Acc. to IEC 60947-4-2: Class A
Communication/ Protocol communication module is supported • PROFINET standard	
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker	Yes Yes Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	Yes Yes Yes Yes Yes Yes
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max.70 A or 3VA51, max. 80 A; lq = 5 kA

<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated</li> </ul>	10 hp
value	
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
•	-
ATEX	
-	Vos
2014/34/EU	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	0.008
relating to ATEX	
	0.0000005 1/h
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating	0.0000005 1/h SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to	
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 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	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating	
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating	
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX	
relating to ATEX PFHD with high demand rate acc. to EN 62061 relating	0.0000005 1/h
relating to ATEX	0 000005 1/b
FFDavy With IOW Demand rate acc. to IEC 61508	0.000
	0.008
	0
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]
according to ATEX directive 2014/34/EU	BVS 18 ATEX F 003 X
• IECEx	Yes
• IECEx	Yes
• ATEX	Yes
-	Vee
certificate of suitability	
certificate of suitability	
certificate of suitability	
ATEX	
electromagnetic compatibility	acc. to IEC 60947-4-2
•	-
•	finger-safe for vertical contact from the front
protection class IP on the front acc. to IEC 60529	IP20
Safety related data	
Safety related data	
contact rating of auxiliary contacts according to UL	R300-B300
	25 hp
	10 hp
value	
<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>	10 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	15 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	7.5 hp
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	5 hp
	5 hp
operating power [hp] for 3-phase motors	
to 575/600 V according to UL	Type: Class J / L, max. 100 A; lq = 100 kA
circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up	Type: Class $1/1$ may 100 Å: $la = 100 kÅ$
— usable for Standard Faults at inside-delta	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 100 A; Iq = 100 kA
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
of the fuse	
inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
— usable for Standard Faults at 575/600 V at	
<ul> <li>— usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V at</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
3	





Type Test Certificates/Test Report







# Marine / Shipping other <u>Confirmation</u>

#### 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=3RW5515-3HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5515-3HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5515-3HA04&lang=en

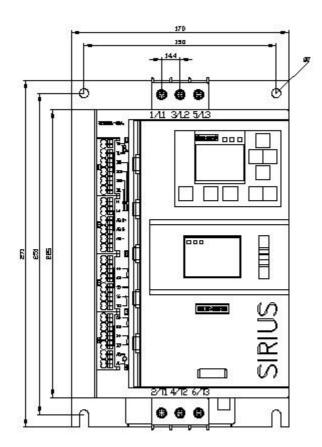
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

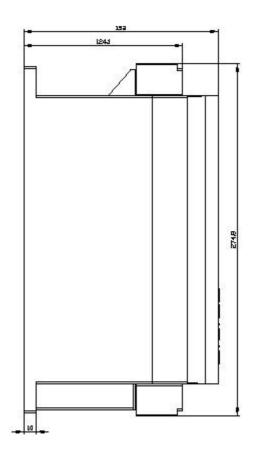
https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HA04/char

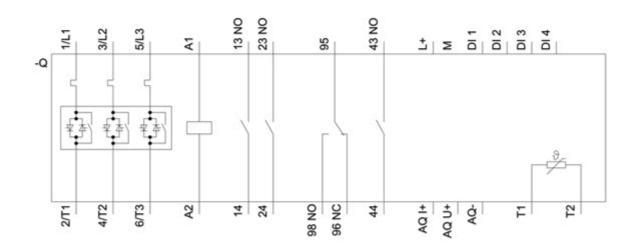
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5515-3HA04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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