## SIEMENS

## Data sheet

## 3RW5074-6TB14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC Screw terminals Thermistor input

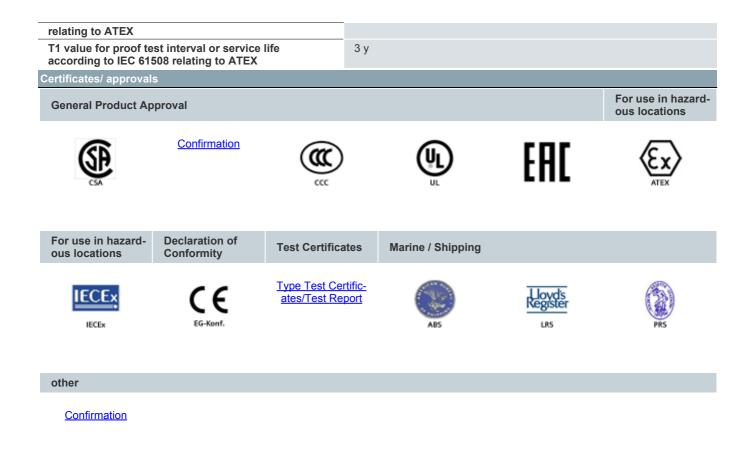
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS01</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module 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>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA
<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>	<u>3NE1 333-2; 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>3NE3 335; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1075</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1075</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class according to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure	-
for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	6 kV
impulse voltage rated value	1 600 V
blocking voltage of the thyristor maximum service factor	1
	6 kV
surge voltage resistance rated value maximum permissible voltage for safe isolation	0 KV
	600 V
between main and auxiliary circuit	
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q 20/00/0040
Substance Prohibitance (Date)	09/23/2019
product function	N
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	No
<ul> <li>analog output</li> </ul>	No
Power Electronics	
operational current	
• at 40 °C rated value	315 A
<ul> <li>at 50 °C rated value</li> </ul>	279 A
• at 60 °C rated value	255 A
operating voltage	
rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	90 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	160 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 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	135 A
	100 / 1
at rotary coding switch on switch position 2	147 A

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	183 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	195 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	207 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	219 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	231 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	243 A
	255 A
at rotary coding switch on switch position 11	
at rotary coding switch on switch position 12	267 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	279 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	291 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	303 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	315 A
• minimum	135 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	36 W
<ul> <li>at 50 °C after startup</li> </ul>	29 W
<ul> <li>at 60 °C after startup</li> </ul>	24 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	3 368 W
• at 50 °C during startup	2 805 W
• at 60 °C during startup	2 455 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
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
	-15 %
relative negative tolerance of the control supply voltage at AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
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 current in standby mode rated value	30 mA
holding current in bypass operation rated value	105 mA
locked-rotor current at close of bypass contact maximum	2.2 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
	Variation
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
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
	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
Inputs/ Outputs	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 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 number of digital outputs	<ul> <li>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</li> <li>1</li> <li>3</li> </ul>
Inputs/ Outputs number of digital inputs number of digital outputs o not parameterizable	<ul> <li>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</li> </ul>
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs	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 1 1 3 2 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	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 1 1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
Inputs/ Outputs number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs	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 1 1 3 2 2 2 normally-open contacts (NO) / 1 changeover contact (CO)

Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	230 mm
width	160 mm
depth	282 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	7.3 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
• with conductor cross-section = 1.5 mm <sup>2</sup> maximum	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 for box terminal using the front clamping point solid</li> </ul>	95 300 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	95 300 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	3/0 600 kcmil
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	120 240 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	250 500 kcmil
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	min. 2x 70 mm <sup>2</sup> , max. 2x 240 mm <sup>2</sup>
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	120 240 mm²
type of connectable conductor cross-sections	
<ul> <li>at AWG cables for main current circuit solid</li> </ul>	2/0 500 kcmil
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	50 240 mm <sup>2</sup>
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	70 240 mm²
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

processing <ul> <li>at AWG cables for control circuit solid</li> </ul>	$1_{\rm Y}$ (20 12) $2_{\rm Y}$ (20 14)
	1x (20 12), 2x (20 14)
<ul> <li>wire length</li> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m
tightening torque	1 000 111
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	0.0 1.2 N111
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 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 Manual
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	3K6 (no ice formation, only according) and an action), 2C2 (no acti
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according 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 according 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	
<ul> <li>PROFINET standard</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
III /CSA ratings	
UL/CSA ratings	
manufacturer's article number	
manufacturer's article number • of circuit breaker	
manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
<ul> <li>manufacturer's article number</li> <li>of circuit breaker         <ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> </ul>	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
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<ul> <li>manufacturer's article number</li> <li>of circuit breaker         <ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> </ul>	Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA
<ul> <li>manufacturer's article number</li> <li>of circuit breaker <ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V</li> </ul> </li> </ul>	
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<ul> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse                 <ul></ul></li></ul></li></ul>	Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
<ul> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>ATEX         <ul> <li>IECEx</li> <li>hardware fault tolerance according to IEC 61508</li> </ul> </li> </ul>	Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes
<ul> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> <li>ATEX         <ul> <li>iECEx</li> <li>hardware fault tolerance according to IEC 61508 relating to ATEX</li> <li>PFDavg with low demand rate according to IEC 61508</li> </ul> </li> </li></ul>	Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes
<ul> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Jphase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>ATEX         <ul> <li>IECEx</li> <li>hardware fault tolerance according to IEC 61508 relating to ATEX</li> <li>PFDavg with low demand rate according to IEC 61508 relating to ATEX</li> <li>PFHD with high demand rate according to EN 62061</li> </ul> </li></ul>	Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0
<ul> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Jphase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>ATEX         <ul> <li>IECEx</li> <li>hardware fault tolerance according to IEC 61508 relating to ATEX</li> </ul> </li> <li>PFDavg with low demand rate according to IEC 61508 relating to ATEX</li> </ul>	Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0 0.09



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Further information

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