## SIEMENS

## Data sheet

## 3RW5074-6AB14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC Screw terminals Analog output

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, Iq = 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 %
certificate of suitability	
CE marking	Yes
UL approval	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
buffering time in the event of power failure	

• for main ourrant circuit	100 mg			
for main current circuit     for control circuit	100 ms			
for control circuit	100 ms			
insulation voltage rated value	600 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			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for protective separation				
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V			
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
utilization category according to IEC 60947-4-2	AC-53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	09/23/2019			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5			
product function				
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes			
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes			
Soft Torque	Yes			
<ul> <li>adjustable current limitation</li> </ul>	Yes			
<ul> <li>pump ramp down</li> </ul>	Yes			
intrinsic device protection	Yes			
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No			
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			
• error logbook	Yes; Only in conjunction with special accessories			
• via software parameterizable	No			
<ul> <li>via software configurable</li> </ul>	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
voltage ramp	Yes			
torque control	No			
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)			
Power Electronics				
operational current				
• at 40 °C rated value	315 A			
• at 50 °C rated value	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				
• at 230 V at 40 °C rated value	90 kW			
• at 400 V at 40 °C rated value	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 negative tolerance of the operating frequency	10 %			
adjustable motor current				
at rotary coding switch on switch position 1	135 A			
	135 A 147 A			
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>				
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> </ul>	159 A			
at rotary coding switch on switch position 4	171 A			
at rotary coding switch on switch position 5	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
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	255 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	267 A
at rotary coding switch on switch position 13	279 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	291 A
at rotary coding switch on switch position 15	303 A
	315 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	
• minimum	135 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	36 W
• at 50 °C after startup	29 W
at 60 °C after startup	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
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
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
inrush current by closing the bypass contacts 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
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	2.4
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1A
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

resures spacing with adde by-side mounting         mm           • biockwards         0 mm           • biockwards         00 mm           • organds         100 mm           • organds         100 mm           • organds         5 mm           • organds         5 mm           • organds         5 mm           • organds         7 mm           • organds         5 mm           • organds	width	160 mm		
events	depth	282 mm		
• exhwards0 mm• upwards100 mn• downwards75 mm• if the side5 mm• wight without packaging7.3 kgConsection TerminalValuation of the side	required spacing with side-by-side mounting			
• cloamwards         000 mm           • cloamwards         75 mm           • cloamwards         73 kg           Connection         5 mm           • or non current circuit         bubbar connection           • or non current circuit         50 mm           • or non current circuit         50 mm           • or non current circuit         50 mm           • wraing the front diamping point sold         95 300 mm <sup>2</sup> • using the front diamping point sold         95 300 mm <sup>2</sup> • using the front diamping point sold         95 300 mm <sup>2</sup> • using the front diamping point sold         70 240 mm <sup>2</sup> • using the front diamping point sold         120 240 mm <sup>2</sup> • using the front diamping point sold         mm. 2x 70 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> • using the back diamping point sold         mm. 2x 50 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> • using bub diamping points sold         mm. 2x 50 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> • using bub diamping points finely stranded without core end processing         mm. 2x 50 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> • using bub diamping points finely stranded without core end processing         mm. 2x 50 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> • using bub back diamping point finely stranded without core end processing         mm. 2x 50 mm <sup>2</sup> max. 2x 240 mm <sup>2</sup> <	forwards	10 mm		
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weight without packaging         7.3 kg           Connections it reminats         5           Sype of electrical consection         screen-wype terminals           • for ontiol cloud         screen-wype terminals           • with of connection bar maximum         35 mm; with connection over 3R11968.4EA1 maximum length 45 mm           • existing the front champing point finally stranded with core or of processing         95	at the side	5 mm		
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• for main current circuit     • for control circuit     • for co				
• for control circuit     screw-byse terminals       width of connection bar maximum     35 mm; with connection cover 3RT 1966-4EA1 maximum length 45 mm       Vego of connectable conductor cross-sections for main contacts for box terminal     56 300 mm²       • using the front clamping point finely stranded with core end processing     70 240 mm²       • using the front clamping point finely stranded without core end processing     70 240 mm²       • using the front clamping point stranded     95 300 mm²       • using be front clamping point stranded     95 300 mm²       • using be thack clamping point stranded     95 300 mm²       • using be thack clamping point stranded     95 300 mm²       • using be back clamping point stranded     min. 2x 70 mm², max. 2x 450 mm²       • using be back clamping point finely stranded with core ed processing     min. 2x 70 mm², max. 2x 450 mm²       • using be back clamping point finely stranded with core ed processing     min. 2x 70 mm², max. 2x 450 mm²       • using be back clamping point finely stranded with core end processing     120185 mm²       • using be back clamping point finely stranded with core end processing     120240 mm²       • using be back clamping point stranded     120240 mm²       • using be back clamping point stranded     120240 mm²       • using be back clamping point stranded     120240 mm²       • for NOK cables for main cortacts finely stranded with core end pro	51	huchar connection		
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• r box terminal using the back clamping point       250 500 kcmil         • using both clamping points sold       min. 2x 70 mm², max. 2x 185 mm²         • using both clamping points finely stranded with core end       min. 2x 50 mm², max. 2x 185 mm²         • using both clamping points finely stranded with core end processing       min. 2x 50 mm², max. 2x 185 mm²         • using both clamping points stranded       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping point finely stranded with core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using the back clamping point finely stranded with core end processing       120 185 mm²         • using the back clamping point finely stranded without core end processing       120 185 mm²         • using the back clamping point stranded       120 240 mm²         (ype of connectable conductor cross-sections       50 240 mm²         • for DIN cable lug for main contacts finely stranded       50 240 mm²         • for control circuit sold       1x (05 40 mm²), 2x (05 25 mm²)         • for control circuit sold       1x (05 40 mm²), 2x (05 15 mm²)         • for control circuit sold       1x (02 12, 2x (20 14)         • wire length       800 m         • of or control circuit sold       1x (20 12, 2x (20 14)         • wire length       90 m         • of or main contacts with screw-				
• using both clamping points sold       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping points finely stranded with core end processing       min. 2x 50 mm², max. 2x 185 mm²         • using both clamping points finely stranded without core end processing       min. 2x 50 mm², max. 2x 185 mm²         • using both clamping point finely stranded without core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using the back clamping point finely stranded without core end processing       120 185 mm²         • using the back clamping point finely stranded without core end processing       120 185 mm²         • using the back clamping point finely stranded       120 240 mm²         • using the back clamping point finely stranded       120 240 mm²         • for AWC cables for main contacts finely stranded       50 240 mm²         • for Control circuit solid       120 240 mm²         • for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (2.0 12), 2x (20 14)         • for main contacts with screw-type terminals       14 24 Nm         • for main contacts with screw-type terminals       14 24 Nm         • for main contacts with screw-type termi				
• using both clamping points finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 185 mm²• using both clamping points finely stranded without core end processingmin. 2x 70 mm², max. 2x 240 mm²• using the back clamping point finely stranded without core end processing120 185 mm²• using the back clamping point stranded120 185 mm²• using the back clamping point stranded120 240 mm²• using the back clamping point stranded20 240 mm²• using the back clamping point stranded20 240 mm²• for DN cable lug for main contacts stranded70 240 mm²• for DN cable lug for main contacts stranded70 240 mm²• for control circuit finely stranded with core end processing1x 0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x 0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit finely stranded with core end processing1x 0.0 12, 2x (20 14)• for control circuit solid1x 0.0 m²• for control circuit solid14 24 Nm• for main contacts with screw-type terminals124 210 lbfin• for auxiliary and control contacts with screw-type terminals124 210 lbfin• for auxiliary and control contacts with screw-type terminals125 460 °C; Please observe derating at temperatures of 40 °C or above • during operation• during operation-25 460 °C; Please observe derating at temperatures of 40 °C or above • during ope	<ul> <li>r box terminal using the back clamping point</li> </ul>	250 500 kcmil		
processinginitial stands• using both clamping points finely stranded without core end processingmin. 2x 50 mm², max. 2x 185 mm²• using both clamping point finely stranded with core end processingmin. 2x 50 mm², max. 2x 240 mm²• using the back clamping point finely stranded with core end processing120 185 mm²• using the back clamping point finely stranded with core end processing120 185 mm²• using the back clamping point stranded120 185 mm²• using the back clamping point stranded120 240 mm²• using the back clamping point stranded20 240 mm²• for AWG cables for main contacts tinely stranded20 240 mm²• for AWG cables for main contacts finely stranded20 240 mm²• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (20 12), 2x (20 14)wire length800 m• between soft starter and motor maximum800 m• for auxiliary and control contacts with screw-type terminals14 24 N m• for auxiliary and control contacts with screw-type terminals124 210 lbf in• for auxiliary and control contacts with screw-type terminals5000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5000	<ul> <li>using both clamping points solid</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²		
end processing       min. 2x 70 mm², max. 2x 240 mm²         • using bith clamping point finely stranded with core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using the back clamping point finely stranded without core end processing       120 185 mm²         • using the back clamping point stranded       120 240 mm²         (using the back clamping point stranded       120 240 mm²         (using the back clamping point stranded       20 240 mm²         (type of connectable conductor cross-sections       50 240 mm²         • for DIN cable lug for main contacts stranded       50 240 mm²         (tor DIN cable lug for main contacts finely stranded with core end processing       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (0.2 12), 2x (20 14)         wire length       800 m         • at the digital inputs at AC maximum       800 m         • at the digital inputs at AC maximum       1000 m         • for auxiliary and control contacts with screw-type       8 1.2 N·m         • for main contacts with screw-type terminals       14 24 N·m         • for auxiliary and control contacts with screw-type       9.00 m; derating as of 1000 m, see Manual         ambient temperature       6.000 m; derating as of 1000 m, see		min. 2x 50 mm², max. 2x 185 mm²		
• using the back clamping point finely stranded with core end processing       120 185 mm²         • using the back clamping point finely stranded without core end processing       120 185 mm²         • using the back clamping point finely stranded without core end processing       120 240 mm²         • using the back clamping point stranded       2/0 500 kcmll         • for DNI cable lug for main contacts stranded       50 240 mm²         • for DNI cable lug for main contacts stranded       70 240 mm²         • for Connectable conductor cross-sections       70 240 mm²         • for Control circuit finely stranded with core end processing       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit finely stranded with core end processing       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starfer and motor maximum       800 m         • for auxiliary and control contacts with screw-type terminals       14 24 Nm         • for auxiliary and control contacts with screw-type       8 1.2 Nm         * for auxiliary and control contacts with screw-type terminals       124 210 lbfin         • for auxiliary and control contacts with screw-type terminals       124 210 lbfin         • for auxiliary and control contacts with screw-type terminals		min. 2x 50 mm², max. 2x 185 mm²		
end processing       1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	<ul> <li>using both clamping points stranded</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²		
end processing       120 240 mm²         type of connectable conductor cross-sections       20 500 kcmil         • for AWG cables for main current circuit solid       20 500 kcmil         • for DIN cable lug for main contacts stranded       50 240 mm²         • for control circuit solid       70 240 mm²         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for axuliary and control control arcuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for axuliary and control contacts with screw-type terminals       1000 m         • for maxiliary and control contacts with screw-type terminals       14 24 N·m         • for maxiliary and control contacts with screw-type terminals       124 210 lbf in         • for maxiliary and control contacts with screw-type terminals       124 210 lbf in         • for maxiliary and control contacts with screw-type terminals       5 000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or abo		120 185 mm²		
type of connectable conductor cross-sections       2/0 500 kcmil         • for AWG cables for main current circuit solid       2/0 500 kcmil         • for DIN cable lug for main contacts stranded       50 240 mm²         • for control circuit solid       70 240 mm²         • for control circuit solid       70 240 mm²         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1000 m         tightening torque       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type terminals       0.8 1.2 N·m         tightening torque [lbf·in]       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type terminals       124 210 lbf·in         • for auxiliary and control contacts with screw-type terminals       5.000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -26 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operat		120 185 mm²		
• for AWG cables for main current circuit solid         2/0 500 kcmill           • for DIN cable lug for main contacts stranded         50 240 mm²           • for control circuit solid         70 240 mm²           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit solid         1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)           • for control circuit solid         1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)           • for control circuit solid         1x (0.5 2.0 14)           wire length         800 m           • between soft starter and motor maximum         800 m           • for main contacts with screw-type terminals         14 24 N·m           • for axililary and control contacts with screw-type terminals         14 24 N·m           • for main contacts with screw-type terminals         124 210 lbF/in           • for axililary and control contacts with screw-type terminals         124 210 lbF/in           • for axililary and control contacts with screw-type         7 10.3 lbF/in           Installation altitude at height above sea level maximum         5 000 m; derating as of 1000 m, see Manual           ambient conditions         +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation         +80 °C           • during operation according to IEC 60721	<ul> <li>using the back clamping point stranded</li> </ul>	120 240 mm²		
• for DIN cable lug for main contacts stranded50 240 mm²• for DIN cable lug for main contacts finely stranded70 240 mm²• type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)• wire length800 m• between soft starter and motor maximum800 m• at the digital inputs at AC maximum1000 m• for auxiliary and control contacts with screw-type14 24 N·m• for auxiliary and control contacts with screw-type0.8 1.2 N·m• for auxiliary and control contacts with screw-type7 10.3 lbf in• for auxiliary and control contacts with screw-type7 10.3 lbf in• for auxiliary and control contacts with screw-type20 00 m; derating as of 1000 m, see Manualambient conditions-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during operation-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during operation-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during operation according to IEC 607213K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during storage according to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6	type of connectable conductor cross-sections			
• for DIN cable lug for main contacts finely stranded       70 240 mm²         type of connectable conductor cross-sections       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for control circuit finely stranded with core end processing       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1000 m         tightening torque       6 ro main contacts with screw-type terminals         • for main contacts with screw-type terminals       14 24 N·m         • for main contacts with screw-type terminals       124 210 lbf-in         • for main contacts with screw-type terminals       124 210 lbf-in         • for main contacts with screw-type terminals       124 210 lbf-in         • for maxiliary and control contacts with screw-type       7 10.3 lbf-in         installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above	<ul> <li>for AWG cables for main current circuit solid</li> </ul>	2/0 500 kcmil		
type of connectable conductor cross-sections       is for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit finely stranded with core end processing       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       6 main contacts with screw-type terminals         • for main contacts with screw-type terminals       14 24 N·m         • for main contacts with screw-type terminals       124 210 lbf-in         • for maxiliary and control contacts with screw-type       7 10.3 lbf-in         terminals       124 210 lbf-in         • for maxiliary and control contacts with screw-type       7 10.3 lbf-in         installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C      <	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	50 240 mm²		
type of connectable conductor cross-sections       is for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit finely stranded with core end processing       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       6 main contacts with screw-type terminals         • for main contacts with screw-type terminals       14 24 N·m         • for main contacts with screw-type terminals       124 210 lbf-in         • for maxiliary and control contacts with screw-type       7 10.3 lbf-in         terminals       124 210 lbf-in         • for maxiliary and control contacts with screw-type       7 10.3 lbf-in         installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C      <	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	70 240 mm²		
<ul> <li>for control circuit solid</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for awgin and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li></ul>				
<ul> <li>for control circuit finely stranded with core end processing         <ul> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit solid</li> <li>ix (2012, 2x (2014)</li> </ul> </li> <li>wire length         <ul> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at AC maximum</li> <li>1000 m</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxi</li></ul></li></ul>		$1x (0.5 \pm 4.0 \text{ mm}^2) 2x (0.5 \pm 2.5 \text{ mm}^2)$		
• for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       1 4 24 N·m         • for main contacts with screw-type terminals       14 24 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       124 210 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         terminals       124 210 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         mistallation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • 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         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6				
wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       1 24 N·m         • for main contacts with screw-type terminals       14 24 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       0.8 1.2 N·m         • for main contacts with screw-type terminals       124 210 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         Ambient conditions       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -40 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -40 +80 °C         environmental category       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6				
• between soft starter and motor maximum800 m• at the digital inputs at AC maximum1 000 mtightening torque14 24 N·m• for main contacts with screw-type terminals0.8 1.2 N·m• for main contacts with screw-type terminals124 210 lbf-in• for main contacts with screw-type terminals7 10.3 lbf-in• for main contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals5 000 m; derating as of 1000 m, see Manualambient temperature-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during storage and transport-40 +80 °C• during operation according to IEC 607213K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during storage according to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must		1A (20 12), 2A (20 14)		
• at the digital inputs at AC maximum1 000 mtightening torque14 24 N·m• for main contacts with screw-type terminals0.8 1.2 N·mtightening torque [lbf·in]0.8 1.2 N·m• for main contacts with screw-type terminals124 210 lbf-in• for main contacts with screw-type terminals1.24 210 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-in• for auxiliary and control contacts with screw-type terminals5.000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5.000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5.000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5.000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals5.000 m; derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during operation-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during storage and transport-25 +60 °C; Please observe derating at temperatures of 40 °C or above• during operation according to IEC 607213K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during storage according to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6	-	000		
tightening torque       14 24 N·m         • for main contacts with screw-type terminals       14 24 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       124 210 lbf·in         • for auxiliary and control contacts with screw-type terminals       124 210 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         ambient conditions       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +80 °C;         • 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         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts with screw-type</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts at the screw-type</li> <li>for auxiliary and control contacts at the screw-type</li> <li>fo</li></ul>		1 000 m		
• for auxiliary and control contacts with screw-type terminals0.8 1.2 N·mtightening torque [lbf·in] • for main contacts with screw-type terminals124 210 lbf·in• for auxiliary and control contacts with screw-type terminals124 210 lbf·inAmbient conditions7 10.3 lbf·ininstallation altitude at height above sea level maximum5 000 m; derating as of 1000 m, see Manualambient temperature • during operation • during storage and transport-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °Cenvironmental category • during operation according to IEC 607213K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during storage according to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
terminals       Image: Constraint of the second secon				
tightening torque [lbf-in]       124 210 lbf-in         • for main contacts with screw-type terminals       124 210 lbf-in         • for auxiliary and control contacts with screw-type terminals       7 10.3 lbf-in         Ambient conditions       5 000 m; derating as of 1000 m, see Manual         installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation according to IEC 60721         • during storage according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6		0.8 1.2 N·m		
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts with screw-type</li> <li>7 10.3 lbf-in</li> <li>7 10.3 lbf-in</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>5 000 m; derating as of 1000 m, see Manual</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>during storage and transport</li> <li>-40 +80 °C</li> </ul> </li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during storage according to IEC 60721</li> <li>4K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get</li> </ul> </li> </ul>				
• for auxiliary and control contacts with screw-type terminals         7 10.3 lbf-in           Ambient conditions         5 000 m; derating as of 1000 m, see Manual           installation altitude at height above sea level maximum         5 000 m; derating as of 1000 m, see Manual           ambient temperature         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40 +80 °C           environmental category         • 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           • during storage according to IEC 60721         1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get		104 - 010 lbf in		
terminals       Ambient conditions         Ambient conditions       5 000 m; derating as of 1000 m, see Manual         installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       -40 +80 °C         • 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         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
installation altitude at height above sea level maximum       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • 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         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation according to IEC 60721         • during storage according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get	Ambient conditions			
<ul> <li>during operation</li> <li>during storage and transport</li> <li>during storage and transport</li> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>-40 +80 °C</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during storage according to IEC 60721</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get</li> </ul>	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual		
• during storage and transport     • during storage and transport     • during operation according to IEC 60721     • during storage according to IEC 60721	ambient temperature			
environmental category         • 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         • during storage according to IEC 60721         1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get	<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
environmental category         • 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         • during storage according to IEC 60721         1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
<ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>K6 (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get</li> </ul>				
• during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get				
inside the devices), 1M4	<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get		

<ul> <li>during transport a</li> </ul>	according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint	-		LIVE, 201, 201, 201, 2012 (110X. 10			
Siemens Eco Profile (SI			Siemens EcoTech			
EMC emitted interfere	•		acc. to IEC 60947-4-2: Class A			
Communication/ Protoc						
communication modul						
PROFINET stand			Yes			
EtherNet/IP			Yes			
Modbus RTU			Yes			
Modbus TCP			Yes			
PROFIBUS			Yes			
UL/CSA ratings			100			
manufacturer's article	number					
of circuit breake						
	ligh Faults at 460/480 V	according to UI	Siemens type: 3VA54, max.	600 A: la max = 65 kA		
of the fuse						
	Standard Faults up to 575	5/600 V	Type: Class L, max. 1000 A;	lq = 18 kA		
•	- ligh Faults up to 575/600	V according to	Type: Class L, max. 1000 A;	lq = 100 kA		
operating power [hp] f	for 3-phase motors					
• at 200/208 V at 5	-		75 hp			
• at 220/230 V at 5			100 hp			
• at 460/480 V at 5			200 hp			
Electrical Safety						
	the front according to	IEC 60529	IP00; IP20 with cover			
-	e front according to IE		finger-safe, for vertical conta	ct from the front with cover		
ATEX	j.		<b>3 </b>			
	(SIL) according to IEC (	61508 relating	SIL1			
to ATEX	nd rate according to IE		9E-6 1/h			
relating to ATEX			0.00			
relating to ATEX	and rate according to I		0.09			
ATEX	ce according to IEC 61		0			
T1 value for proof test IEC 61508 relating to A	interval or service life	according to	3 a			
certificate of suitability	у					
• ATEX			Yes			
• IECEx			Yes			
• UKEX			Yes			
Approvals Certificates						
General Product Appr	roval					
CE EG-Konf.	UK CA		Confirmation		EAC	
EMV	For use in hazardous	locations		Test Certificates	Marine / Shipping	
KC		_	Missollanasus	Type Test Certific-		
	IECEX	KEX ATEX	<u>Miscellaneous</u>	<u>iype lest Certific-</u> ates/Test Report	ABS	
Marine / Shipping		other	Environment			





**Confirmation** 





Environmental Confirmations

## **Further information**

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5074-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5074-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5074-6AB14&lang=en

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

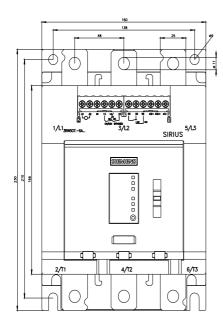
https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB14/char

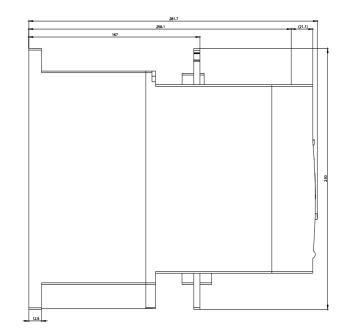
Characteristic: Installation altitude

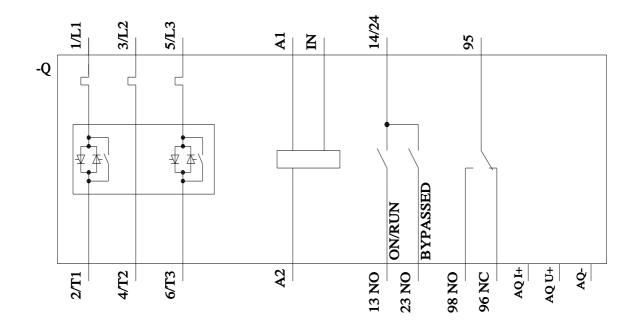
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5074-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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