## **SIEMENS**

Data sheet 3RW5074-6AB14

SIRIUS



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

Figure similar

product brand name

product brand name	Sirvido
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>	3RW5980-0HS01
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, lq = 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>	3NE1 333-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3 335; Type of coordination 2, Iq = 65 kA
<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 50 %
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 acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2

buffering time in the event of power failure  • for main current circuit • for control circuit insulation voltage rated value  degree of pollution 3, acc. to IEC 60947-4-2  impulse voltage rated value  blocking voltage of the thyristor maximum 1 600 V  service factor 1 surge voltage resistance rated value • 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  reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 2.09 2019 00:00:00  product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • waluation of thermistor motor protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • coparating measured value display • error logbook • via software parameterizable • via software parameterizable • via software configurable • velotage ramp • torque control		CLASS 10A / 10E (propert) / 20E; and to IEC 60047 4.2
• for main current circuit • for control circuit insulation voltage rated value  degree of pollution impulse voltage rated value  600 V  degree of pollution impulse voltage rated value  600 V  service factor  surge voltage resistance rated value  • kV  maximum permissible voltage for safe Isolation • between main and auxiliary circuit  • between main and auxiliary circuit  • foo V  shock resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting  vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting  15 mn to 6 Hz, 2g to 500 Hz  reference code acc. to IEC 81346-2  Q Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • Soft Torque  • adjustable current limitation  • pump ramp down  • intrinsic device protection  • well aution of themistor motor protection  • autio-RESET  • manual RESET  • remote reset  • communication function  • operating measured value display  • error (ogbook  • via software parameterizable  • via software parameterizable  • via software configurable  • via software configurable  • via software configurable  • voltage ramp  • voltage rame  • at 40 °C rated value  315 A	trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
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degree of pollution impulse voltage rated value blocking voltage of the thyristor maximum service factor surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit shock resistance • between main and auxiliary circuit shock resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration for Hz.  9 c / 12 ms / 12 ms / 12 ms with potential contact lifting vibration for Hz.  9 c / 12 ms /		
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service factor surge voltage resistance rated value maximum permissible voltage for safe isolation		
maximum permissible voltage for safe isolation  • between main and auxiliary circuit  shock resistance  vibration resistance  vibration resistance  vibration resistance  vibration resistance  reference code acc. to IEC 81346-2  Q  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • soft Torque  • adjustable current limitation  • pump ramp down  • intrinsic device protection  • worth or device protection  • auto-RESET  • remote reset  • communication function  • operating measured value display  • error logbook  • via software configurable  • via software configurable  • voltage ramp  • torque control  • analog output  Power Electronics   operational current  • at 40 °C rated value  • de VC arted value  15 g / 11 ms, from 12 g / 11 ms with potential contact lifting  600 V  6		
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product function		
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<ul> <li>ramp-down (soft stop)</li> <li>Soft Torque</li> <li>adjustable current limitation</li> <li>pump ramp down</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>ves</li> <li>PROFlenergy</li> <li>torque control</li> <li>vand (default) / 0 10 V (parameterizable with High Feature HMII)</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> </ul> 315 A 315 A	product function	
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<ul> <li>pump ramp down</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> </ul>	•	
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<ul> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>ves; Electronic motor overload protection</li> <li>No</li> <li>yes</li> <li>Yes</li> <li>Only in conjunction with special accessories</li> <li>Yes; Only in conjunction with special accessories</li> <li>Yes; in connection with the PROFINET Standard communication module</li> <li>yoltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> </ul>	<ul><li>pump ramp down</li></ul>	Yes
<ul> <li>evaluation of thermistor motor protection</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> </ul>		Yes
<ul> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>manual RESET</li> <li>Yes</li> <li>Yes; By turning off the control supply voltage</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>Yes</li> <li>in connection with the PROFINET Standard communication module</li> <li>Yes</li> <li>torque control</li> <li>No</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>315 A</li> </ul>	<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
<ul> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>premote reset</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Only in conjunction with special accessories</li> <li>No</li> <li>Yes</li> <li>PROFINET Standard communication module</li> <li>Yes</li> <li>torque control</li> <li>No</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>315 A</li> </ul>	<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
<ul> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>remote reset</li> <li>Yes; By turning off the control supply voltage</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>via software parameterizable</li> <li>Yes</li> <li>remote reset</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>via software configurable</li> <li>Yes; in connection with the PROFINET Standard communication module</li> <li>Yes</li> <li>torque control</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul>	• auto-RESET	Yes
<ul> <li>communication function</li> <li>operating measured value display</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>Yes</li> <li>Only in conjunction with special accessories</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>ves; on connection with the PROFINET Standard communication module</li> <li>Yes</li> <li>Yes</li> <li>20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul>	manual RESET	Yes
operating measured value display     error logbook     via software parameterizable     via software configurable     voltage ramp     torque control     analog output  Power Electronics  operational current     at 40 °C rated value  Yes; Only in conjunction with special accessories  No Yes; Only in conjunction with special accessories  No Yes; Only in conjunction with special accessories  No No Yes  No Yes; in connection with the PROFINET Standard communication module  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	<ul> <li>remote reset</li> </ul>	Yes; By turning off the control supply voltage
<ul> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>Yes; Only in conjunction with special accessories</li> <li>No</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard communication module</li> <li>Yes</li> <l< td=""><td><ul> <li>communication function</li> </ul></td><td>Yes</td></l<></ul>	<ul> <li>communication function</li> </ul>	Yes
<ul> <li>via software parameterizable</li> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>315 A</li> </ul>	<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>Yes</li> <li>Yes<!--</td--><td><ul><li>error logbook</li></ul></td><td>Yes; Only in conjunction with special accessories</td></li></ul>	<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
PROFlenergy     Yes; in connection with the PROFINET Standard communication module     voltage ramp     torque control     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	<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>voltage ramp</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>module</li> <li>Yes</li> <li>No</li> <li>No</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul>	<ul> <li>via software configurable</li> </ul>	Yes
<ul> <li>torque control         <ul> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul> </li> <li>Power Electronics         <ul> <li>operational current</li> <li>at 40 °C rated value</li> <li>315 A</li> </ul> </li> </ul>	PROFlenergy	,
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	<ul> <li>voltage ramp</li> </ul>	Yes
Power Electronics  operational current  • at 40 °C rated value  HMI)  315 A	<ul> <li>torque control</li> </ul>	No
operational current  • at 40 °C rated value 315 A	analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
• at 40 °C rated value 315 A	Power Electronics	
	operational current	
• at 50 °C rated value 279 A	<ul> <li>at 40 °C rated value</li> </ul>	315 A
	<ul> <li>at 50 °C rated value</li> </ul>	279 A
• at 60 °C rated value 255 A	at 60 °C rated value	255 A
operating voltage	operating voltage	
• rated value 200 480 V	• rated value	200 480 V
relative negative tolerance of the operating voltage -15 %	relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage 10 %	relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	operating power for 3-phase motors	
• at 230 V at 40 °C rated value 90 kW	<ul> <li>at 230 V at 40 °C rated value</li> </ul>	90 kW
• at 400 V at 40 °C rated value 160 kW	at 400 V at 40 °C rated value	160 kW
Operating frequency 1 rated value 50 Hz	Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value 60 Hz	Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency -10 %	relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency $$ 10 $\%$	relative positive tolerance of the operating frequency	10 %
adjustable motor current	adjustable motor current	
• at rotary coding switch on switch position 1 135 A	<ul> <li>at rotary coding switch on switch position 1</li> </ul>	135 A
• at rotary coding switch on switch position 2 147 A	<ul> <li>at rotary coding switch on switch position 2</li> </ul>	147 A
• at rotary coding switch on switch position 3 159 A	at totally country of the position 2	

<ul> <li>at rotary coding switch on switch position 4</li> </ul>	171 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
at rotary coding switch on switch position 10	243 A
at rotary coding switch on switch position 11	255 A
at rotary coding switch on switch position 12	267 A
at rotary coding switch on switch position 13	279 A
at rotary coding switch on switch position 14	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> <li>minimum</li> </ul>	135 A
minimum load [%]	
power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
• 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 %	0.000.144
• 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
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
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 inputs for thermistor connection	0
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
• 1	

switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
nstallation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
mounting position	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
onnections/ Terminals	·
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
type of connectable conductor cross-sections	
for main contacts for box terminal using the front clamping point solid	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
for main contacts for box terminal using the front clamping point stranded	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 mm², max. 2x 240 mm²
<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 mm²
• for DIN cable lug for main contacts finely stranded	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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
wire length	
between soft starter and motor maximum	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m
tightening torque	
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
terminals	
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 terminals</li> </ul>	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see manual
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
• during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
	Sigmons type: 21/AE4, may, 600 A. Ia may = 65 kA
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
• of the fuse	T 01 1 4000 1 1 10 1 1
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 1000 A; Iq = 18 kA
usable for High Faults up to 575/600 V     according to UL	Type: Class L, max. 1000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	75 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	100 hp
• at 460/480 V at 50 °C rated value	200 hp
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.09
PFHD with high demand rate acc. to EN 62061 relating	0.000009 1/h
	0.000000

to ATEX

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

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

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Certificates/ approvals

**General Product Approval** 

For use in hazardous locations













**Declaration of Conformity** 

**Test Certificates** 

other



**Miscellaneous** 

Type Test Certificates/Test Report

Confirmation

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

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

Cax online generator

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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

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,  $I^2t$ , Let-through current

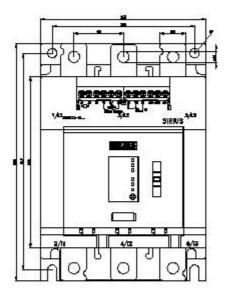
https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6AB14/char

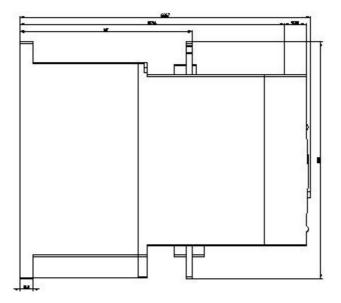
Characteristic: Installation altitude

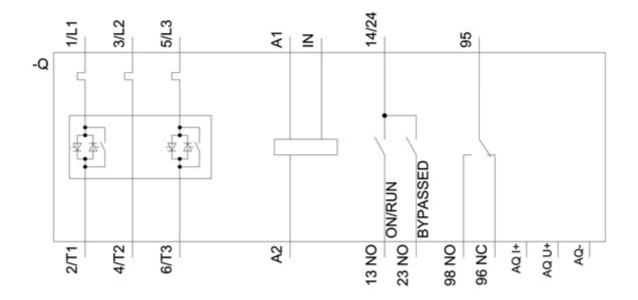
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5074-6AB14\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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