## SIEMENS

## Data sheet

## 3RW5056-6AB14



SIRIUS soft starter 200-480 V 171 A, 110-250 V AC Screw terminals Analog output

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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>	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2220-7MN32-0AA0: Type of assignment 1. Iq = 20 kA
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6; 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 230-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3 335: Type of coordination 2. Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1056</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1064</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
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms

<ul> <li>for control circuit</li> </ul>	100 ms
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	1 400 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
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
Substance Prohibitance (Date)	09/23/2019
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
communication function	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
<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
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	171 A
● at 50 °C rated value	153 A
<ul> <li>at 60 °C rated value</li> </ul>	141 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	45 kW
• at 400 V at 40 °C rated value	90 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>	81 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	87 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	93 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	99 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	105 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	111 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	117 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	129 A

<ul> <li>at rotary coding switch on switch position 10</li> </ul>	135 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	141 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	147 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	153 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	159 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	165 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	171 A
• minimum	81 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>	29 W
• at 50 °C after startup	23 W
at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 751 W
• at 50 °C during startup	1 478 W
at 60 °C during startup	1 308 W
type of the motor protection Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage 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	-15 %
AC at 50 Hz relative positive tolerance of the control supply voltage at	10 %
AC at 50 Hz relative negative tolerance of the control supply voltage at	-15 %
AC at 60 Hz	10 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	
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	80 mA
inrush current by closing the bypass contacts maximum	2.5 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 4 A gG fuse (Icu=1 kA), 6 A guick-acting fuse (Icu=1 kA), C1 miniature circuit
design of short-circuit protection for control 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	
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	with vertical mounting surface $\pm 100^{\circ}$ rotatable, with vertical mounting surface
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	198 mm
dopth	120 mm
depth required spacing with side-by-side mounting	249 mm
required spacing with side-by-side mounting	

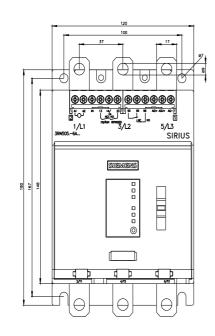
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alarping point solid       6 250 kcmil         • for main contacts for box terminal using both clamping points solid       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using the back clamping point finely stranded with core end processing       16 120 mm²         • for main contacts for box terminal using the back clamping point finely stranded with core end processing       16 120 mm²         • for NNC cable log for main contacts for box terminal using the back clamping point finely stranded with core end processing       16 120 mm²         • for NNC cable log for main contacts for box terminal using the back clamping point finely stranded with core end processing       16 120 mm²         • for AWG cable log for main contacts firely stranded       25 120 mm²         • for ONIC cable log for main contacts firely stranded       18 520 kcmil         • for orbit circuit finely stranded with core end processing       1x (0.5 4.0 m²), 2x (0.5 2.5 m²)         • for AWG cables for control circuit solid       1x (0.5 4.0 m²), 2x (0.5 1.5 m²)	0	16 70 mm²
the back clamping point       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points solid       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points findly stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points findly stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping point findly stranded with core end processing       max. 2x 120 mm²         • for main contacts for box terminal using the back clamping point findly stranded with core end processing       10 120 mm²         • for nain contacts for box terminal using the back clamping point findly stranded       10 120 mm²         • for DN coble lug for main contacts stranded       16 120 mm²         • for DN cable lug for main contacts franded       16 120 mm²         • for Control circuit solid       4 250 kcmli         • for DN cable lug for main contacts stranded       26 120 mm²         • for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)         • for axNG cables for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)         • for axNG cables for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)         • for axNG cables for control circuit solid       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) <td></td> <td>16 120 mm²</td>		16 120 mm²
points solid       • or main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • for main contacts for box terminal using the back clamping point finely stranded with our end processing       16 120 mm²         • for main contacts for box terminal using the back clamping point finely stranded without core end processing       10 120 mm²         • for AWG cables for main current circuit solid       4 250 kcmil         • for onnectable conductor cross-sections       10 120 mm²         • for AWG cables for main current circuit solid       4 250 kcmil         • for control circuit solid       15 120 mm²         • for AWG cables for control circuit solid       14 250 kcmil         • for control circuit solid       15 120 mm²         • for AWG cable soft main cortacts strahed       15 120 mm²         • for ontrol circuit solid       14 250 kcmil         • for control circuit solid       15 10 mn²         • for control circuit solid       14 250 kcmil         • for control circuit solid       14 (.05 4 0 mm²), 2x (0.5 1.5 mm²) <td></td> <td>6 250 kcmil</td>		6 250 kcmil
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>for OIN cable lug for main contacts for box terminal using the back clamping point finely stranded</li> <li>for OIN cable lug for main contacts finely stranded</li> <li>for control circuit finely stranded</li> <li>for control circuit solid</li> <li>for axiliary and control contacts with screw-type terminals</li> <li>for ma</li></ul>		max. 1x 95 mm <sup>2</sup> , 1x 120 mm <sup>2</sup>
<ul> <li>of main contacts for box terminal using both clamping points stranded</li> <li>of main contacts for box terminal using the back clamping point fiely stranded without core end processing</li> <li>of main contacts for box terminal using the back clamping point fiely stranded without core end processing</li> <li>of ro AWG cables for main contacts for box terminal using the back clamping point stranded</li> <li>trans contacts for box terminal using the back clamping point stranded without core end processing</li> <li>of ro AWG cables for main current circuit solid</li> <li>for OIN cable lug for main contacts friely stranded</li> <li>of or AWG cables for main current circuit solid</li> <li>for control circuit fiely stranded</li> <li>of ro control circuit fiely stranded</li> <li>of ro control circuit fiely stranded</li> <li>for away cables for control circuit solid</li> <li>for away cables for control contacts with screw-type terminals</li> <li>for away cables with screw-type terminals</li> <li>for away cables with screw-type terminals</li> <li>for away cables and control contacts with screw-type terminals</li> <li>for away</li></ul>		max. 1x 95 mm², 1x 120 mm²
points stranded       16 120 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point finely stranded with core end processing       10 120 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point finely stranded with core end processing       10 120 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point stranded       16 120 mm <sup>2</sup> • for main contacts for box terminal using the back clamping point stranded       16 120 mm <sup>2</sup> • for AWG cables for main current circuit solid       4 250 kcmil         • for DIN cable lug for main contacts stranded       25 120 mm <sup>2</sup> • for control circuit finely stranded with core end processing       1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )         • for control circuit finely stranded with core end processing       1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for control circuit finely stranded with core end processing       1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for control circuit finely stranded with core end processing       1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for axiliary and control circuit solid       1x (2 12), 2x (2 1.1 mm <sup>2</sup> )         • for main contacts with screw-type terminals       10 14 N-m         • for main contacts with screw-type terminals       10 14 N-m         • for main contacts with screw-type terminals       89 124 lbfin		max. 1x 95 mm², 1x 120 mm²
clamping point finely stranded with core and processing       10 120 mm²         • for main contacts for box terminal using the back clamping point finely stranded with core end processing       16 120 mm²         • for main contacts for box terminal using the back clamping point stranded       16 120 mm²         type of connectable conductor cross-sections       16 120 mm²         • for DIN cable lug for main contacts stranded       16 95 mm²         • for DIN cable lug for main contacts finely stranded       25 120 mm²         type of connectable conductor cross-sections       25 120 mm²         • for DIN cable lug for main contacts finely stranded       16 95 mm²         type of connectable conductor cross-sections       1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (20 12), 2x (20 14)         wire length       100 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       100 m         • for main contacts with screw-type terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         terminals       5 000 m; derating as of 1000 m, see Manual <td< td=""><td></td><td>max. 2x 120 mm<sup>2</sup></td></td<>		max. 2x 120 mm <sup>2</sup>
clamping point finely stranded without core end processing <ul> <li>for main contacts for box terminal using the back</li> <li>clamping point stranded</li> </ul> 16 120 mm <sup>2</sup> <ul> <li>for AWG cables for main current circuit solid</li> <li>for DIN cable lug for main contacts stranded</li> <li>for Control circuit solid</li> <li>for control circuit solid</li> <li>for control circuit solid</li> <li>for control circuit solid</li> <li>for AWG cables for control circuit solid</li> <li>for axiliary and control contacts with screw-type</li> <li>for axiliary and control contacts with screw-type</li> <li>for axiliary and control contacts with screw-type</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type</li> <li>for main contacts with screw-type terminals</li> <li>for main contacts with screw-type</li> <li>for main contacts with screw-type</li> <li>for main contacts with screw-type</li></ul>	•	16 120 mm²
clamping point stranded         type of connectable conductor cross-sections         • for DIN cable lug for main contacts stranded         16	•	10 120 mm²
• for AWG cables for main current circuit solid             • for DIN cable lug for main contacts stranded             • for DIN cable lug for main contacts finely stranded             • for DIN cable lug for main contacts finely stranded             • for control circuit solid             • for control circuit solid             • for control circuit solid             • for control circuit finely stranded with core end processing             • for control circuit finely stranded with core end processing             • for control circuit finely stranded with core end processing             • 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             • between soft starter and motor maximum             • botween soft starter and motor maximum             • at the digital inputs at AC maximum             1 000 m             • tightening forque             • for main contacts with screw-type terminals             • for maxiliary and control contacts with screw-type             terminals             • for main contacts with screw-type terminals             • for auxiliary and control contacts with screw-type             terminals             • for maxiliary and control contacts with screw-type             terminals             • for auxiliary and control contacts with screw-type             terminals             • for main contacts with screw-type             terminals             • for main contacts with screw-type             terminals	•	16 120 mm²
• for DIN cable lug for main contacts stranded       16 95 mm²         • for DIN cable lug for main contacts finely stranded       25 120 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 (0.2 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       0 14 N·m         • for main contacts with screw-type terminals       0 14 N·m         • for main contacts with screw-type terminals       0 12 N·m         tightening torque [lbf·in]       89 124 lbf·in         • for main contacts with screw-type terminals       89 124 lbf·in         • for axiliary and control contacts with screw-type       7 10.3 lbf·in         installation attitude 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 tem	type of connectable conductor cross-sections	
• for DIN cable lug for main contacts finely stranded       25 120 mm²         type of connectable conductor cross-sections       • 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 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 starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       0 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbfin]       89 124 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         terminals       5 000 m; derating as of 1000 m, see Manual         ambient temperature       -40 +80 °C         • 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 <td><ul> <li>for AWG cables for main current circuit solid</li> </ul></td> <td>4 250 kcmil</td>	<ul> <li>for AWG cables for main current circuit solid</li> </ul>	4 250 kcmil
type of connectable conductor cross-sections       ix (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 AWG cables for control circuit solid       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       1 000 m         tightening torque       0.8 14 N·m         • for auxiliary and control contacts with screw-type terminals       0.8 1.2 N·m         tightening torque [lbfin]       89 124 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         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	16 95 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 auxiliary and control contacts with screw-type</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary</li></ul>	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	25 120 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         1 000 m           tightening torque         0 14 N·m           • for main contacts with screw-type terminals         10 14 N·m           • for auxiliary and control contacts with screw-type         0.8 1.2 N·m           tightening torque [lbf·in]         6 for auxiliary and control contacts with screw-type           • for auxiliary and control contacts with screw-type         7 10.3 lbf-in           tightening torque [lbf.in]         89 124 lbf-in           • for auxiliary and control contacts with screw-type         7 10.3 lbf-in           terminals         89 124 lbf-in           • for auxiliary 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 temperature         -40 +80 °C           • during operation according to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	••	
<ul> <li>for AWG cables for control circuit solid</li> <li>1x (20 12), 2x (20 14)</li> <li>wire length         <ul> <li>between soft starter and motor maximum</li> <li>800 m</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</li> <li>at in contacts with screw-type terminals</li> <li>for main contacts with screw-type terminals</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 with s</li></ul></li></ul>		
wire length       800 m         • between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       0 14 N·m         • for main contacts with screw-type terminals       0 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       89 124 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         tightening torque [lbf·in]       89 124 lbf·in         • for auxiliary 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 temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +80 °C         • during operation       -40 +80 °C         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
• between soft starter and motor maximum       800 m         • at the digital inputs at AC maximum       1 000 m         tightening torque       1 0 14 N·m         • for main contacts with screw-type terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf in]       89 124 lbf in         • for main contacts with screw-type terminals       89 124 lbf in         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         * for auxiliary and control contacts with screw-type       7 10.3 lbf in         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         • 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 storage and transport       -40 +80 °C         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		1x (20 12), 2x (20 14)
• at the digital inputs at AC maximum       1 000 m         tightening torque       10 14 N·m         • for main contacts with screw-type terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       0.8 124 lbf·in         • for main contacts with screw-type terminals       89 124 lbf·in         • for auxiliary and control contacts with screw-type       7 10.3 lbf·in         terminals       89 124 lbf·in         • for auxiliary 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 temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +80 °C         • during storage and transport       -40 +80 °C         environmental category       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	-	
tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type         terminals         tightening torque [lbf·in]         • for main contacts with screw-type terminals         tightening torque [lbf·in]         • for auxiliary and control contacts with screw-type terminals         89 124 lbf·in         • for auxiliary and control contacts with screw-type         terminals         89 124 lbf·in         • for auxiliary and control contacts with screw-type         terminals         89 124 lbf·in         • for auxiliary and control contacts with screw-type         terminals         89 124 lbf·in         • for auxiliary and control contacts with screw-type         terminals         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         -40 +80 °C       -40 +80 °C         environmental category       • during operation according to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>and the screw-type terminals</li> <li>and the screw-type terminals</li> <li>be for main contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>be for auxiliary and control contacts with screw-type terminals</li> <li>conditions</li> <li>conditions</li> <li>functional altitude at height above sea level maximum</li> <li>condition altitude at height above sea levelevel</li></ul>		1 000 m
• for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       89 124 lbf·in         • for main contacts with screw-type terminals       89 124 lbf·in         • for auxiliary 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 temperature       -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		40 44 N m
terminals       The second secon		
<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>ambient conditions</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</li> </ul> </li> </ul>		0.8 1.2 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</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</li> </ul> </li> </ul>	tightening torque [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       -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       -40 +80 °C         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf·in
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		7 10.3 lbf·in
ambient temperature       -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	Ambient conditions	
<ul> <li>during operation</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</li> </ul>	installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
• during storage and transport       -40 +80 °C         • environmental category       • during operation according to IEC 60721         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	ambient temperature	
• during storage and transport       -40 +80 °C         • environmental category       • during operation according to IEC 60721         • during operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	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	<ul> <li>during storage and transport</li> </ul>	
	environmental category	
	<ul> <li>during operation according to IEC 60721</li> </ul>	

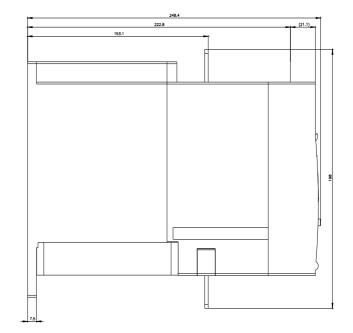
• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
• PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA5225, max. 250 A; lq = 10 kA		
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA		
<ul> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 400 A; lq = 10 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J, max. 350 A; lq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	50 hp		
• at 220/230 V at 50 °C rated value	50 hp		
• at 460/480 V at 50 °C rated value	100 hp		
Safety related data			
protection class IP on the front according to IEC 60529	IP00; IP20 with cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover		
ATEX			
certificate of suitability	Ver		
• ATEX	Yes		
• IECEx	Yes		
UKEX     hardware fault tolerance according to IEC 61508 relating to     ATEX	Yes 0		
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09		
PFHD with high demand rate according to EN 62061 relating to ATEX	9E-6 1/h		
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1		
T1 value for proof test interval or service life according to	3 a		
IEC 61508 relating to ATEX			
Certificates/ approvals			
General Product Approval	For use in hazard- ous locations		
For use in hazardous locations Declaration of	Conformity Test Certificates Marine / Shipping		
Image: state	EG-Konf.		

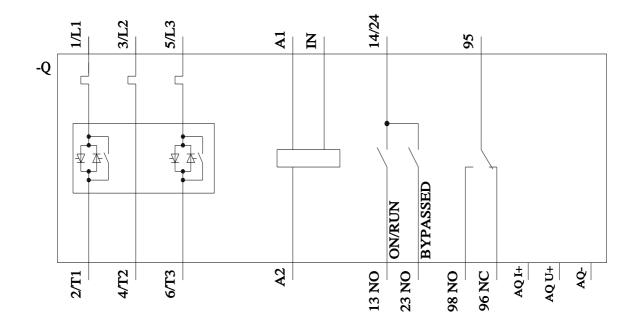




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ther information	
emens has decided to exit the Russian market (see here).	
tps://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business	
emens is working on the renewal of the current EAC certificates.	
ease contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to AC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	) an
formation on the packaging	
tps://support.industry.siemens.com/cs/ww/en/view/109813875	
formation- and Downloadcenter (Catalogs, Brochures,)	
tps://www.siemens.com/ic10	
dustry Mall (Online ordering system)	
tps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5056-6AB14	
ax online generator	
tp://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-6AB14	
ervice&Support (Manuals, Certificates, Characteristics, FAQs,)	
tps://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14	
nage database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) t <u>p://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-6AB14⟨=en</u>	
haracteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current	
tps://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6AB14/char	
haracteristic: Installation altitude	
tp://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6AB14&objecttype=14&gridview=view1	
mulation Tool for Soft Starters (STS)	
tps://support.industry.siemens.com/cs/ww/en/view/101494917	







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