## SIEMENS

## Data sheet

## 3RW5072-6AB14



SIRIUS soft starter 200-480 V 210 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>	<u>3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA</u>
<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>	2x3NA3354-6; 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 230-2; 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 333; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1064</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
buffering time in the event of power failure	

for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
	6 kV
impulse voltage rated value	1 600 V
blocking voltage of the thyristor maximum	1
service factor	6 kV
surge voltage resistance rated value maximum permissible voltage for protective separation	0 KV
	600 V
between main and auxiliary circuit     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
<ul> <li>intrinsic device protection</li> </ul>	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
<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
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	210 A
• at 50 °C rated value	186 A
at 60 °C rated value	170 A
operating voltage	200 490 1/
rated value	200 480 V -15 %
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	
<ul> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> </ul>	55 kW
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value	55 KW 110 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	90 A
at rotary coding switch on switch position 1	98 A
at rotary coding switch on switch position 2     at rotary coding switch on switch position 3	106 A
<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 4</li> </ul>	114 A
<ul> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	122 A
at rotary coding switch on switch position 5     at rotary coding switch on switch position 6	130 A
- at rotary county switch on switch position o	

<ul> <li>at rotary coding switch on switch position 7</li> </ul>	138 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	146 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	154 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	162 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	170 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	178 A
	186 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	
• at rotary coding switch on switch position 14	194 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	202 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	210 A
• minimum	90 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>	16 W
<ul> <li>at 50 °C after startup</li> </ul>	13 W
<ul> <li>at 60 °C after startup</li> </ul>	11 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 237 W
• at 50 °C during startup	1 867 W
• at 60 °C during startup	1 637 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Lissa sino, apping in the oroni of themail oronioud of the motor
	10
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
	2
not parameterizable	
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	
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
• dommarks75 mm• at the side67 mm• eight without packaging7.3 kgConnectors I terminalsbased connection• for main current circuitbased connection• for main current circuit55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• prop of connectible conductor cores sections for main55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• using the fort damping point ford55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point findy stranded with core70 – 240 mm²• using the fort damping point stranded250500 kmil• using bith champing points findy stranded with corermin. 2x 60 mm², max. 2x 185 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• for Connectable condu	backwards	0 mm
• Ibr eside         9 mm           weight without packaging         7.3 kg           Connectional Leminials         5000 methods           Screew Loop Leminials         5000 methods           with of connection bar maximum         5000 methods           Vige of connection bar maximum         5000 mm²           • using the front damping point sold         95	• upwards	100 mm
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	downwards	75 mm
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
Constructions/Terminals           type of electrical connection           • for main corner dircuit           • large the ford clamping point solid           • using the back clamping point solid           • using the back clamping point solid           • using the back clamping point standed           • for AWG cables for main current croat solid           • for DN cable lig for main current drout solid           • for carticli crua		
type of electrical connection         Justance                electrical connection toroutt             encore-type terminals          Justance                wind the form clamping point standed             electrical conductor cores-section for main             enable toron clamping point finely standed with core             end processing             electrical compared toron sold             toron torout clamping point standed             electrical compared toron sold             toron torout clamping point standed             electrical compared toron sold             toron torout clamping point standed             electrical compared toron sold             toron torout clamping point standed             electrical compared toron sold             toron torout clamping point standed             electrical compared toron torout standed             electrical compared toron terms             for NAG cables for main current circuit sold             electrical conductor cores-sections             error torol clamping point standed             electrical conductor cores-sections             error torol clamping point standed             electrical conductor cores-sections             error torol clamping point standed             toron NAG cables for main current circuit sold             tor DIN cable tog for main contacts thind standed             electrical conductor cores-sections             for AVG cables for main current circuit sold             error control circuit flexy standed with core             error torid circuit levels thanded             electrical bing for main current circuit sold             for AVG cables for main current circuit sold             for A		
• 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
width of connection bar maximum         35 mm, with connection cover 3RT 1966-4EA1 maximum length 45 mm           type of connectable conductor cross-sections for main contacts for box terminal         95 300 mm²           • using the front clamping point finely stranded with core and processing         95 300 mm²           • using the front clamping point finely stranded with core and processing         70 240 mm²           • using the back clamping point stranded         95 300 mm²           • using the back clamping point stranded         95 300 mm²           • using the back clamping point stranded         95 300 mm²           • using the back clamping point stranded         95 300 mm²           • using the back clamping point stranded         95 300 mm²           • using back clamping point finely stranded with core end processing         min. 2x 70 mm², max. 2x 40 mm²           • using back clamping point finely stranded with core end processing         min. 2x 70 mm², max. 2x 40 mm²           • using the back clamping point finely stranded with core end processing         120 400 mm²           • using the back clamping point stranded         120 240 mm²           • using the back clamping point finely stranded with core end processing         120 240 mm²           • or AVG cables for main contacts finely stranded with core end processing         120 240 mm²           • or control circuit solid         120 2		
type of connectable conductor cross sections for main contacts for box terminal using the front clamping point finely stranded with core end processing using the front clamping point finely stranded with core end processing using the thork clamping point stranded using the thork clamping point finely stranded with core end processing using thor clamping point stranded using the thack clamping point stranded using the thack clamping point stranded with core end processing using the thack clamping point stranded with core end processing using the thack clamping point stranded using the thack clamping point stranded using the thack clamping point stranded type of connectable conductor cross-sections for DN cable up for main contacts finely stranded of ro DN cable up for main contacts finely stranded with core clause the onductor cross-sections for control claust finely stranded for ON cable up for main contacts finely stranded with length for onto claust finely stranded for ON cable up for main contacts finely stranded for ontrol claust finely stranded for anticontaction with screew-type terminals for auxiliary and control contacts with screew-type terminals for main contacts with screew-type terminals for ma		
civitasi for box terminal         5           • using the front damping point finely stranded with ocree of processing         70 240 mm²           • using the front damping point finely stranded without ocre of processing         70 240 mm²           • using the front damping point standed         95 300 mm²           • using the back damping point standed         20 240 mm²           • using the back damping point standed         20 200 km²           • using both clamping point standed with ocre end processing         min. 2x 70 mm², max. 2x 185 mm²           • using both clamping point standed with ocre 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 185 mm²           • using both clamping point finely stranded without core end processing         120 185 mm²           • using both clamping point finely stranded without core end processing         120 185 mm²           • using both clamping point finely stranded without core end processing         120 185 mm²           • using both back clamping point finely stranded without core end processing         120 185 mm²           • using both clamping point finely stranded without core end processing         120 240 mm²           • or AWG cables for main current circuit standed         120 240 mm²           • for OTIN cable lug for main current circuit standed <t< td=""><td></td><td>35 mm; with connection cover 3R 1 1966-4EA1 maximum length 45 mm</td></t<>		35 mm; with connection cover 3R 1 1966-4EA1 maximum length 45 mm
• using the front clamping point stranded with core end processing95 300 mm²• using the front clamping point finely stranded without core end processing70 240 mm²• using the foot clamping point stranded95 300 mm²• using the back clamping point sold20 240 mm²• using be back clamping point sold20 240 mm²• using both clamping points soldmin. 2x 70 mm², max. 2x 240 mm²• using both clamping points finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• using both clamping points finely stranded with core end processingmin. 2x 70 mm², max. 2x 185 mm²• using both clamping point finely stranded with core end processingmin. 2x 70 mm², max. 2x 185 mm²• using both clamping point finely stranded with core end processingmin. 2x 70 mm², max. 2x 185 mm²• using the back clamping point stranded120 185 mm²• using the back clamping point stranded20 240 mm²• using the back clamping point stranded20 240 mm²• for AVG cables for main contacts stranded50 240 mm²• for AVG cables for main contacts stranded50 240 mm²• for control circul finely stranded with core end processing120 125 mm², 2x (0.5 15 mm²)• for AVG cables for main contacts stranded50 25 mm², 2x (0.5 15 mm²)• for control circul stald14 (0.5 25 mm²), 2x (0.5 15 mm²)• for control circul stald14 24 h m• for control circul stald14 24 h m• for auciliary and control contacts with screw-type100 n•	21 · · · · · · · · · · · · · · · · · · ·	
• using the fort clamping point finely stranded with core end processing70 240 mm²• using the fort clamping point stranded50 240 mm²• using the fort clamping point stranded50 240 mm²• using the fort clamping point stranded20 240 mm²• using the back clamping point sold120 240 mm²• using but clamping point sold120 240 mm²• using but clamping point soldmin. 2x 70 mm², max. 2x 240 mm²• using but clamping point finely stranded with core end processingmin. 2x 50 mm², max. 2x 185 mm²• using but clamping point finely stranded with core end processingmin. 2x 50 mm², max. 2x 240 mm²• using but clamping point finely stranded without core end processingmin. 2x 50 mm², max. 2x 240 mm²• using but clamping point finely stranded without core end processing120 185 mm²• using but clamping point finely stranded without core end processing120 185 mm²• using but back clamping point finely stranded without core end processing120 185 mm²• using but back clamping point finely stranded without core end processing120 185 mm²• for AWG cables for main cortex tiranded20 500 kcmll• for ON cable lug for main contacts stranded120 240 mm²• for ON cable lug for main contacts stranded120 240 mm²• for Control claut sold120 25		95 300 mm <sup>2</sup>
euking the ford clamping point finely stranded without core or processing       70 240 mm²         • using the ford clamping point stranded       95 300 mm²         • using the back clamping point solid       120 240 mm²         • using the back clamping points solid       120 240 mm²         • using bet back clamping points finely stranded with core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping points finely stranded with core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping point finely stranded without core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping point finely stranded without core end processing       min. 2x 70 mm², max. 2x 240 mm²         • using both clamping point finely stranded without core end processing       min. 2x 70 mm², max. 2x 240 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       min. 2x 70 mm², max. 2x 240 mm²         • using the back 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       120 136 mm²         • for Din cable lug for main contacts stranded       120 240 mm²         • for Control circuit finely stranded with core end processing       1x		
end processingU.M. Market• using the find clamping point stranded95 300 mm²• using the back clamping point solid120 240 mm²• using both clamping points solid120 240 mm²• using both clamping points finely stranded with core end processingmin. 2x 70 mm², max. 2x 240 mm²• using both clamping points finely stranded with 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 both clamping point finely stranded without core end processingmin. 2x 70 mm², max. 2x 240 mm²• using both clamping point stranded120 185 mm²• using both clamping point stranded120 185 mm²• using both clamping point stranded120 240 mm²• using both clamping point stranded20 500 kcmll• for AWG cables for main contacts stranded50 240 mm²• for CDIN cable lug for main contacts finely stranded with core end processing120 120, 2x (20 140• for control circuit flavy stranded with core end processing1x (0.5 25 mm²)• for control circuit solid1x (0.5 40 mm²), 2x (0.5 25 mm²)• for control circuit solid1x (0.5 40 mm²), 2x (20 14)• for auxiliary and control circuit solid1x (20 12), 2x (20 14)• for control circuit solid1x (20 12), 2x (20 14)• for auxiliary and control contacts with screw-type terminals124 241 km• for auxiliary and control contacts with screw-type terminals124 210 bfin• for main contacts	end processing	
using the back clamping point solid120 240 mm²• tox terminal using the back clamping points solid250 500 kcmil• using both clamping points solidmin. 2x 70 mm², max. 2x 240 mm²• using both clamping points linely stranded with 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 both clamping point finely stranded without core end processing120 185 mm²• using the back clamping point finely stranded without core end processing120 185 mm²• using the back clamping point stranded120 240 mm²• using the back clamping point stranded120 185 mm²• using the back clamping point stranded120 240 mm²• for controtable conductor cross-sections • for controt circuit solid20 500 kcmil• for DIN cable lug for main contacts stranded50 240 mm²• for controt circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for controt circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for controt circuit solid14 24 Nm• for main contacts with screw-type terminals14 24 Nm• for axiliary and control contacts with screw-type00 m• for axiliary and control contacts with screw-type124 210 lbf.in• for axiliary and control contacts with screw-type124 210 lbf.in• for axiliary and control contacts with screw-type5000 m; derating as of 1000 m; see Manual• minate• during operation-25 +60 °C; Please observe der	end processing	
• 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 according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	act. to IEC 00347-4-2. Class A
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	
<ul> <li>of circuit breaker</li> </ul>	
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 700 A; lq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 700 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
• at 220/230 V at 50 °C rated value	60 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	150 hp
Electrical Safety	
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	
Safety Integrity Level (SIL) according to IEC 61508 relating	SIL1
to ATEX PFHD with high demand rate according to IEC 61508	9E-6 1/h
relating to ATEX	
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX	0.09 0 3 a Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Confirmation C
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes

Subject to change without notice © Copyright Siemens





**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=3RW5072-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5072-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5072-6AB14&lang=en

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

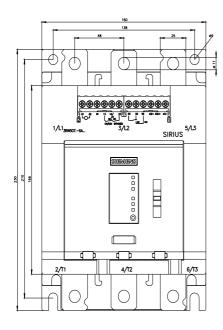
https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14/char

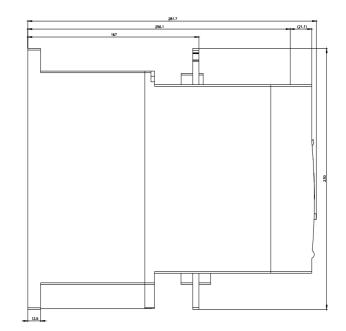
Characteristic: Installation altitude

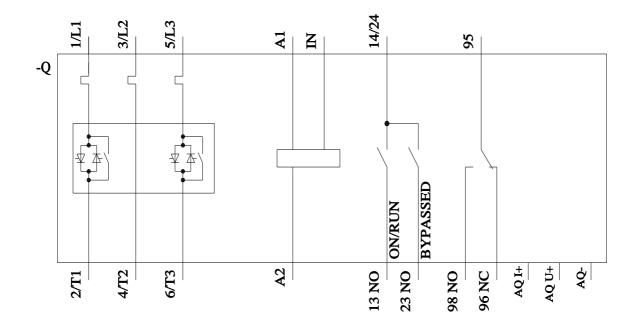
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified:

4/19/2024 🖸