## SIEMENS

## Data sheet

## 3RW5055-6AB14



SIRIUS soft starter 200-480 V 143 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>	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 227-0; 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 334 -0B; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1055</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1055</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> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
buffering time in the event of power failure	

e for main current circuit	100 ms
for main current circuit     for control circuit	100 ms 100 ms
for control circuit     insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
· · · · · · · · · · · · · · · · · · ·	1 400 V
blocking voltage of the thyristor maximum	1400 V
service factor	6 kV
surge voltage resistance rated value	0 KV
<ul> <li>maximum permissible voltage for protective separation</li> <li>between main and auxiliary circuit</li> </ul>	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
SVHC substance name	Lead - 7439-92-1
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<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	143 A
• at 50 °C rated value	128 A
at 60 °C rated value	118 A
operating voltage	200 490 1/
rated value	200 480 V -15 %
relative negative tolerance of the operating voltage	10 %
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>	37 kW
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value	57 KW 75 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	68 A
at rotary coding switch on switch position 1	73 A
at rotary coding switch on switch position 2     at rotary coding switch on switch position 3	78 A
<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 4</li> </ul>	83 A
<ul> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	88 A
at rotary coding switch on switch position 5     at rotary coding switch on switch position 6	93 A
• at rotary county switch on switch position 6	JU M

<ul> <li>at rotary coding switch on switch position 7</li> </ul>	98 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	103 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	108 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	113 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	118 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	123 A
at rotary coding switch on switch position 13	128 A
at rotary coding switch on switch position 14	133 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	138 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	143 A
minimum	68 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
	23 W
• at 40 °C after startup	
• at 50 °C after startup	19 W
• at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	4 000 11/
• at 40 °C during startup	1 336 W
• at 50 °C during startup	1 134 W
at 60 °C during startup	1 007 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	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
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
	2.4
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	198 mm

widh10 nmrequired spacing with side hyside mounting44 mm- exavarial10 mm- exavarial100 mm <th></th> <th></th>		
require stacking with side by side mounting         0 mm           • Stackwards         0 mm           • St	width	120 mm
• covariants         0 mm           • covariants         0 mm           • covariants         100 mm           • covariants         7 m	depth	249 mm
	required spacing with side-by-side mounting	
• commands         100 mm           • commands         5 mm           • eight without packaging         2 kg           Connection         5 mm           • for main connection         5 mm           • for name connection         5 mm           • saing the first damping point sold         15 120 mm <sup>2</sup> • using the first damping point sold         15 120 mm <sup>2</sup> • using the first damping point sold         16 120 mm <sup>2</sup> • using the first damping point sold         16 120 mm <sup>2</sup> • using the first damping point sold         16 120 mm <sup>2</sup> • using the back damping point sold         16 120 mm <sup>2</sup> • using back damping points sold         max. 1x 120 mm <sup>2</sup> • using back damping points sold         max. 1x 120 mm <sup>2</sup> • using back damping points sold         10 120 mm <sup>2</sup> • using back damping points standed         10 120 mm <sup>2</sup> • using back damping points standed         10 120 mm <sup>2</sup> • using back damping points standed         10 120 mm <sup>2</sup> • using back damping points standed         10	<ul> <li>forwards</li> </ul>	10 mm
• aft messáge75 mm• aft mésságe32 kgConnections trainints32 kgConnections trainintsbusias connection• for main current circuitsbusias connection• for main current circuits57 mm• for control or cura25 mm• period control control or consections57 mm• using he for control point soid56 - 120 mm <sup>2</sup> • using he forn champing point forely stranded with core66 - 120 mm <sup>2</sup> • using he forn champing point forely stranded with core10 - 120 mm <sup>2</sup> • using he forn champing point forely stranded with core66 - 120 mm <sup>2</sup> • using he forn champing point forely stranded with core66 - 120 mm <sup>2</sup> • using be forn champing point finely stranded with core66 - 120 mm <sup>2</sup> • using be forn champing point finely stranded with core70 m <sup>2</sup> • using be back champing point66 - 120 mm <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • using back champing point finely stranded without core70 mu <sup>2</sup> • for ON cables for main contacts stranded10 mu <sup>2</sup> • for ON cables for main contacts stranded10 mu <sup>2</sup> • for ON cables for main contacts stranded10 mu <sup></sup>	backwards	0 mm
• If the side         5 mm           weight without packaging         3.2 kg           Connection:         busbar connection           • for rand corner duction         busbar connection           • for rand corner duction         serve-type terminals           visit of connection bar maximum         serve-type terminals           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using the front damping point sold         16 120 mm²           • using beth darping point sold         max. 1x 45 mm², 1x 120 mm²           • using beth darping point sold         10 120 mm²           • using beth darping point finely stranded with coreer or processing         10 120 mm²           • using the back damping point finely stranded with coreer or processing         10 120 mm²           • using the back damping point finely stranded with coreer or processing         10120 mm²           • using the back damping point finely stranded with coreer or processing         10120 mm²	• upwards	100 mm
wight without packaging         32 kg           Connections Terminals            Open of sectral connection         busbar connection           • for main current circuit         busbar connection           • for main corrent circuit         surge the wind the connection for main           • using the for charming point nearly stranded with core end processing         • is ing the ford charming point sould         16 120 mm <sup>2</sup> • using the ford charming point sould         16 120 mm <sup>2</sup> • is ing the ford charming point sould         16 120 mm <sup>2</sup> • using the ford charming point sould         16 120 mm <sup>2</sup> • is ing the ford charming point sould         16 120 mm <sup>2</sup> • using the ford charming point sould         16 120 mm <sup>2</sup> • is ing the back clamping point sould         16 120 mm <sup>2</sup> • using both charping point sould         16 120 mm <sup>2</sup> • is ing the back clamping point sould         16 120 mm <sup>2</sup> • using both charping point sould         16 120 mm <sup>2</sup> • is ing the back clamping point finally stranded without core end processing         • is ing the back clamping point finally stranded without core end processing         • is ing the back clamping point finally stranded without core end processing         • is ing the back clamping point finally stranded without core end processing         • is ing the back clamping point finally stranded with core end processing         • is ing the bac	downwards	75 mm
Connections/ Terminals           type of lacktrial connection           • for main current circuit         busbar connection           • for main current circuit         scree-type terminals           • using the for clamping point sold         10120 mm*           • using the forci clamping point finely standed with core end processing         10120 mm*           • using the forci clamping point finely standed with core end processing         10120 mm*           • using the forci clamping point finely standed with core end processing         10120 mm*           • using the back clamping point finely standed without core end processing         10120 mm*           • using the back clamping points finely standed without core end processing         max. 1x 95 mm*, 1x 120 mm*           • using both clamping points finely stranded without core end processing         max. 1x 95 mm*, 1x 120 mm*           • using both clamping point stranded         10120 mm*           • using both clamping point finely stranded without core end processing         max. 1x 95 mm*, 1x 120 mm*           • using both clamping point finely stranded without core end processing         10120 mm*           • using both clamping point stranded         10120 mm*           • using both clamping point stranded         10120 mm*           • for CNN cable lug for man contacts finely stranded without core end processing         10120 mm*	• at the side	5 mm
type of electrical connection         busbar connection           • for main current circuit         surve-type terminals           Value of connection bar maximum         25 mm           Yep of connectable conductor coss-sections for main         10 120 mm*           • using the front clamping point filely stranded without core and processing         10 120 mm*           • using the front clamping point sold         10 120 mm*           • using the front clamping point sold         10 120 mm*           • using the fort clamping point sold         10 120 mm*           • using the fort clamping point sold         10 120 mm*           • using the fort clamping point sold         10 120 mm*           • using the fort clamping point sold         10 120 mm*           • using both clamping point sold         10 120 mm*           • using both clamping point filely stranded with core and processing         max. 1x 95 mm*, 1x 120 mm*           • using both clamping point filely stranded with core and processing         10 120 mm*           • using both clamping point filely stranded with core and processing         10	weight without packaging	3.2 kg
buschar connection         buschar connection           i for control drout         serew-type terminals           view droth or connection har maximum         25           i soling the font clamping point solid         16         120 mm²           i using the font clamping point finely standed with ocree end processing         10         120 mm²           i using the font clamping point solid         16         10         120 mm²           i using the font clamping point solid         16         10         120 mm²           i using the back clamping point solid         16         10         120 mm²           i using the back clamping point solid         16         120 mm²           i using bit back clamping point solid         16         120 mm²           i using bit back clamping point solid         max. 1x 95 mm², 1x 120 mm²           i using bit back clamping point solid         max. 1x 95 mm², 1x 120 mm²           i using bit back clamping point solid         16         120 mm²           i using bit back clamping point solid         16         120 mm²           i using bit back clamping point solid         16         120 mm²           i using bit back clamping point solid         10         120 m²           i using bit back clamping point solid         10         120 m²	Connections/ Terminals	
of control circuitscrew-type terminalswith of connection bar maximum25 mmyes of connectible conductor cross-sections for main contasts for bos terminal16 - 120 mm²- using the front clamping point finely standed with core end processing10 - 120 mm²- using the front clamping point standed16 - 120 mm²- using the front clamping point standed16 - 120 mm²- using the front clamping point standed16 - 120 mm²- using the front clamping point standed16 - 20 mm²- using be thack clamping point standed16 - 20 mm²- using both clamping points standed16 - 20 mm²- using both clamping points standed16 - 120 mm²- using both clamping points finely standed with core end processingmax. 1x 95 mm², 1x 120 mm²- using both clamping points finely standed without coremax. 1x 95 mm², 1x 120 mm²- using both clamping point finely standed without coremax. 1x 95 mm², 1x 120 mm²- using both clamping point finely standed without coremax. 1x 95 mm², 1x 120 mm²- using both clamping point finely standed without coremax. 1x 95 mm², 1x 120 mm²- using both clamping point finely standed without coremax. 1x 95 mm², 1x 120 mm²- for NVG cables for main current circuit sold16 - 120 mm²- for NVG cables for main current circuit sold16 - 120 mm²- for NVG cables for main current circuit sold16 - 120 mm²- for NVG cables for namin current circuit sold10 - 120 mm²- for NVG cables for main current circuit sold10 - 120 mm²- for main contacts with screw-type <td>type of electrical connection</td> <td></td>	type of electrical connection	
width of connectable conductor cross-sections for main contacts for bot terminal         26 mm           Vps of connectable conductor cross-sections for main contacts for bot terminal         16 120 mm <sup>2</sup> • using the front clamping point finely stranded without core end processing         10 120 mm <sup>2</sup> • using the front clamping point finely stranded without core end processing         10 120 mm <sup>2</sup> • using the front clamping point standed         16 70 mm <sup>2</sup> • using bit fort clamping point standed         16 70 mm <sup>2</sup> • using bit fort clamping point standed         16 70 mm <sup>2</sup> • using bit fort clamping point standed without core end processing         6 20 mm <sup>2</sup> • using bit bit clamping point finely stranded without core end processing         max. 1x 95 mm <sup>2</sup> , 1x 120 mm <sup>2</sup> • using bit back clamping point finely stranded without core end processing         max. 2x 120 mm <sup>2</sup> • using bit back clamping point finely stranded without core end processing         max. 2x 120 mm <sup>2</sup> • using bit back clamping point finely stranded without core end processing         10 120 mm <sup>2</sup> • for DN cable lug for main contacts finely stranded         1695 mm <sup>2</sup> • for OTIN cable lug for main contacts finely stranded         18120 mm <sup>2</sup> • for AWG cables for ancincurst for the approxemant         10120 mm <sup>2</sup> • for control circ	<ul> <li>for main current circuit</li> </ul>	busbar connection
type of connectable conductor cross sections for main contacts for byok terminal	for control circuit	screw-type terminals
cistal for box terminal              i	width of connection bar maximum	25 mm
• using the front clamping point sold16 120 mm²• using the front clamping point finely stranded with core10 120 mm²• using the front clamping point stranded16 70 mm²• using the fort clamping point stranded16 70 mm²• using the back clamping point sold16 70 mm²• using bit back clamping point sold16 70 mm²• using bit back clamping point sold16 70 mm²• using bit back clamping point sold16 120 mm²• using bit damping points finely stranded with core end processingmax. 1x 95 mm², 1x 120 mm²• using bot clamping points stranded16 120 mm²• using bot clamping point stranded with core end processingmax. 1x 95 mm², 1x 120 mm²• using bot clamping point stranded with core end processingmax. 1x 95 mm², 1x 120 mm²• using bot clamping point stranded with core end processing16 120 mm²• using bot back clamping point stranded16 120 mm²• using bot back clamping point stranded16 120 mm²• using bot back clamping point stranded16 120 mm²• using bot back clamping point stranded10 120 mm²• for ONC cables for main current circuit sold4 250 kcmil• for ONC cables for contocts finely stranded110 120 mm²• for ONC cables for contocts finely stranded110 120 mm²• for ONC cables for contocts finely stranded110 120 mm²• for ONC cables for contocts finely stranded110 120 mm²• for ONC cables for contocts finely stranded110 120 mm²• for contocl cicruit sold1		
• using the front clamping point finely stranded with core end processing     • using the front clamping point stranded     • using the back clamping point solid     • using the back clamping point finely stranded with core end processing     • using bith clamping point finely stranded with core end processing     • using bith clamping point finely stranded with core end processing     • using bith clamping point finely stranded with core end processing     • using bith clamping point finely stranded with core end processing     • using bith clamping point finely stranded with core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith clamping point finely stranded without core end processing     • using bith calce conductor cross-sections     • for DN cable up for main contracts finely stranded     * (J. 5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )     * (J. 5 2.5 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )     * (J. 5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )     * (J. 5 1.5 mm <sup>2</sup> )     * (J. 5 1.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )     * (J. 5 1.5 m <sup>2</sup> )		
euling the front clamping point finely stranded without core       10120 mm²         • using the front clamping point stranded       1670 mm²         • using the back clamping point solid       1670 mm²         • using the back clamping point solid       6250 kcml         • using bbt clamping points finely stranded with core end processing       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping points finely stranded with core end processing       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping point stranded       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping point stranded       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping point stranded       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping point stranded       max. 1 x 95 mm², 1x 120 mm²         • using bbt clamping point stranded       16120 mm²         • using bbt clamping point stranded       16120 mm²         • using bbt clamping point stranded       16120 mm²         • using bbt clamping point stranded       16		
eusing the fond clamping point stranded       16 70 mm²         • using the back clamping point stranded       16 120 mm²         • using the back clamping point solid       6 250 kcmil         • using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • using both clamping points finely stranded with core end processing       max. 1x 95 mm², 1x 120 mm²         • using both clamping points finely stranded without core end processing       max. 1x 95 mm², 1x 120 mm²         • using both clamping point stranded       max. 2x 120 mm²         • using both clamping point stranded       max. 2x 120 mm²         • using both clamping point stranded       16 120 mm²         • using both clamping point stranded       16 120 mm²         • using the back clamping point stranded       16 120 mm²         • using the back clamping point stranded       16 120 mm²         • for AWG cables for main contacts stranded       16	end processing	
• using the back clamping point sold16 120 mm²• tox terminal using the back damping point6 250 kcmil• using both clamping points soldmax. 1x 95 mm², 1x 120 mm²• using both clamping points finely stranded with core end processingmax. 1x 95 mm², 1x 120 mm²• using both clamping points finely stranded with core end processingmax. 2x 195 mm², 1x 120 mm²• using both clamping point finely stranded without core end processingmax. 2x 120 mm²• using the back clamping point finely stranded without core end processing10 120 mm²• using the back clamping point finely stranded without core end processing10 120 mm²• using the back clamping point stranded16 120 mm²• tor AWG cables for main contacts stranded16 120 mm²• for Connectable conductor cross-sections16 120 mm²• for control circuit sold1x (05 40 mm²), 2x (05 2.5 mm²)• for control circuit sold1x (05 40 mm²), 2x (05 2.5 mm²)• for control circuit sold1x (05 2.5 mm²), 2x (05 1.5 mm²)• for control circuit sold1x (05 2.5 mm²), 2x (05 1.5 mm²)• for main contacts with screw-type terminals000 m• at the digital inputs at AC maximum800 m• at the digital inputs at AC maximum800 m• for main contacts with screw-type terminals10 14 Nm• for main contacts with screw-type terminals10 12 Nm• for main contacts with screw-type terminals5000 m; derating as of 1000 m; see Manualambient conditions5000 m; derating as of 1000 m; s		10 120 mm²
• r box terminal using the back clamping point     6 250 kcmil       • using both clamping points sold     max. 1x 95 mm², 1x 120 mm²       • using both clamping points finely stranded with core end processing     max. 1x 95 mm², 1x 120 mm²       • using both clamping points finely stranded with core end processing     max. 1x 95 mm², 1x 120 mm²       • using both clamping point finely stranded without core end processing     max. 2x 120 mm²       • using the back clamping point finely stranded without core end processing     max. 2x 120 mm²       • using the back clamping point finely stranded without core end processing     10 120 mm²       • using the back clamping point finely stranded without core end processing     10 120 mm²       • using the back clamping point stranded     16 120 mm²       • for AWG cables for main current circuit solid     4 250 kcmil       • for DIN cable ug for main contacts finely stranded     18 95 mm²       • for control circuit solid     1x (0.5 40 mm²), 2x (0.5 2.5 mm²)       • for control circuit solid     1x (0.5 40 mm²), 2x (0.5 1.5 mm²)       • for control circuit solid     1x (0.5 40 mm²), 2x (0.5 1.5 mm²)       • for control circuit solid     1x (0.5 40 m²), 2x (0.5 1.5 mm²)       • for control circuit solid     1x (0.5 40 m²), 2x (0.5 1.5 mm²)       • for main contacts with screw-type terminals     00 m       • for main contacts with screw-type     0 12N m	<ul> <li>using the front clamping point stranded</li> </ul>	
using both clamping points solid     using both clamping points finely stranded with core end processing     using both clamping points finely stranded without core end processing     using both clamping points finely stranded without core end processing     using both clamping point finely stranded without core end processing     using both clamping point finely stranded without core end processing     using the back clamping point finely stranded without core end processing     using the back clamping point finely stranded without core end processing     using the back clamping point finely stranded without core end processing     using the back clamping point stranded     tore and processing     using the back clamping point stranded     tore of the back clamping point stranded     tor DIN cable lug for main contacts timely stranded     tor DIN cable lug for main contacts they stranded     tor DIN cable lug for main contacts they stranded     tor control circuit solid     tor for MNC cables for control circuit solid     tor control contacts with screw-type terminals     tor auxiliary and control contacts with screw-type terminals     tor auxiliary an	<ul> <li>using the back clamping point solid</li> </ul>	16 120 mm²
• using both clamping points finely stranded with core end processingmax. 1x 95 mm², 1x 120 mm²• using both clamping points finely stranded without core end processingmax. 2x 120 mm²• using the back clamping point finely stranded without core end processingmax. 2x 120 mm²• using the back clamping point finely stranded without core end processing10 120 mm²• using the back clamping point stranded16 120 mm²• for DIN cable lug for main contacts stranded25 120 mm²• for DIN cable lug for main contacts inely stranded25 120 mm²• for control circuit finely stranded with core end procession1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for control circuit solid10 14 N mm²• between soft starter and motor maximum800 m• at the digital inputs at AC maximum100 14 N m• for main contacts with screw-type terminals0 1.2 N m• for main contacts with screw-type terminals0 1.2 N m• for auxiliary and control contacts with screw-type terminals500 m, derating as of 1000 m, see Manual• for auxiliary and control contacts with screw-type terminals500 m, derating as of 1000 m, see Manual• during operation • during operation2.25 +60 °C; Please observ	<ul> <li>r box terminal using the back clamping point</li> </ul>	6 250 kcmil
processing       max. 1x 95 mm², 1x 120 mm²         • using both clamping points finely stranded without core end processing       max. 2x 120 mm²         • using both clamping points stranded       max. 2x 120 mm²         • using the back clamping point finely stranded without core end processing       10 120 mm²         • using the back clamping point finely stranded without core end processing       10 120 mm²         • using the back clamping point stranded       16 120 mm²         (processing)       11 stranded       11	<ul> <li>using both clamping points solid</li> </ul>	max. 1x 95 mm², 1x 120 mm²
e using both clamping points stranded       max. 2x 120 mm <sup>2</sup> • using the back clamping point finely stranded with core end processing       16 120 mm <sup>2</sup> • using the back clamping point finely stranded with core end processing       10 120 mm <sup>2</sup> • using the back clamping point stranded       16 120 mm <sup>2</sup> • using the back clamping point stranded       16 120 mm <sup>2</sup> • for AWG cables for main current circuit solid       4 250 kcmill         • for DIN cable lug for main contacts stranded       25 120 mm <sup>2</sup> • for control circuit solid       10 120 mm <sup>2</sup> • for control circuit solid       4 250 kcmill         • for control circuit solid       18 95 mm <sup>2</sup> • for control circuit solid       10 120 mm <sup>2</sup> • for control circuit solid       10 120 mm <sup>2</sup> • for control circuit solid       12 (0 2.5 mm <sup>2</sup> )         • for control circuit solid       1x (0 .5 4.0 mm <sup>3</sup> ), 2x (0 .5 1.5 mm <sup>3</sup> )         • for auxiliary and control contacts with screw-type terminals       10 14 N-m         • for auxiliary and control contacts with screw-type terminals       10 14 N-m         • for auxiliary and control contacts with screw-type terminals       89 124 lbf/in         • for auxiliary and control contacts with screw-type terminals       5 .000 m; derating as of 1000 m, see M		max. 1x 95 mm², 1x 120 mm²
• using the back clamping point finely stranded with core end processing       16 120 mm <sup>2</sup> • using the back clamping point finely stranded without core end processing       10 120 mm <sup>2</sup> • using the back clamping point stranded       16 120 mm <sup>2</sup> • using the back clamping point stranded       16 120 mm <sup>2</sup> • 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 Connectable conductor cross-sections       12 (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )         • for control dircuit 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 solid       1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for control circuit solid       1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for control circuit solid       1x (2.0 12), 2x (2.0 1.5 mm <sup>2</sup> )         • for control circuit solid       10 14 N·m         • between soft starter and motor maximum       800 m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type terminals       7 10.3 lbf in		max. 1x 95 mm², 1x 120 mm²
end processing       10 120 mm²         • using the back clamping point finely stranded without core end processing       10 120 mm²         • using the back clamping point stranded       16 120 mm²         • for AWG cables for main current circuit solid       4 250 kcmil         • for DIN cable lug for main contacts stranded       16 95 mm²         • for CIN cable lug for main contacts stranded       16 95 mm²         • for control circuit solid       4 250 kcmil         • for control circuit solid       18 95 mm²         • for control circuit solid       18 95 mm²         • for control circuit solid       18 (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 14 N·m         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         terminals       10 12 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; de	<ul> <li>using both clamping points stranded</li> </ul>	max. 2x 120 mm <sup>2</sup>
end processing       • Using the back clamping point stranded       16 120 mm <sup>2</sup> type of connectable conductor cross-sections       • 250 kcmil         • for AWG cables for main current circuit solid       4 250 kcmil         • for DIN cable lug for main contacts stranded       16 120 mm <sup>2</sup> type of connectable conductor cross-sections       12 120 mm <sup>2</sup> • for control circuit solid       18 95 mm <sup>2</sup> • for control circuit solid       18 ( 5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )         • for control circuit solid       1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • between soft starter and motor maximum       800 m         • for auxiliary and control 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·ln]       89 124 lbf·ln         • for auxiliary and control contacts with screw-type       7 10.3 lbf in         Ambient conditions       5000 m, derating as of 1000 m, see Manual         ambient temperature       +80 °C         • during storage and transport       +80 °C         • during operation      25 +60 °C; Please observe derating a		16 120 mm²
type of connectable conductor cross-sections       4 250 kcmil         • for AWG cables for main current circuit solid       4 250 kcmil         • for DIN cable lug for main contacts stranded       16 95 mm²         • for control circuit solid       25 120 mm²         • for control circuit solid       1x (0.5 4.0 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 (20 12), 2x (20 14)         wire length       800 m         • between soft stater and motor maximum       800 m         • for anin contacts with screw-type terminals       10 14 N·m         • for axilliary and control contacts with screw-type terminals       0.8 1.2 N m         tightening torque       0.8 124 lbf-lin         • for axilliary and control contacts with screw-type terminals       89 124 lbf-lin         • for axilliary and control contacts with screw-type terminals       9 124 lbf-lin         • for axilliary and control contacts with screw-type       7 10.3 lbf-lin         installation attitude at height above sea level maximum       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         •		10 120 mm²
<ul> <li>for AWG cables for main current circuit solid</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>25 120 mm<sup>2</sup></li> <li>20 125 mm<sup>2</sup></li> <li>20 125 mm<sup>2</sup></li> <li>20 120 mm<sup>2</sup></li> <li>21 120 mm<sup>2</sup></li> <li>21 120 mm<sup>2</sup></li> <li>22 120 mm<sup>2</sup></li> <li>20 120 mm<sup>2</sup></li> <li>21 120 mm<sup>2</sup></li> <li>22 120 mm<sup>2</sup></li> <li>23 120 mm<sup>2</sup></li> <li>24 lbF in</li> <li>25 120 mm<sup>2</sup></li> <li>26 120 mm<sup>2</sup></li> <li>27 103 lbF in</li> <li>28 124 lbF in</li> <l< td=""><td><ul> <li>using the back clamping point stranded</li> </ul></td><td>16 120 mm<sup>2</sup></td></l<></ul>	<ul> <li>using the back clamping point stranded</li> </ul>	16 120 mm <sup>2</sup>
• for DIN cable lug for main contacts stranded       16 95 mm <sup>2</sup> • for DIN cable lug for main contacts finely stranded       25 120 mm <sup>2</sup> type of connectable conductor cross-sections       1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )         • for control circuit solid       1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )         • for control circuit solid       1x (0.5 2.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )         • for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       800 m         • at the digital inputs at AC maximum       1000 m         • at the digital inputs at AC maximum       1000 m         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         • for auxiliary and control contacts with screw-type       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 using appendix       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 operation according to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand	type of connectable conductor cross-sections	
• 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 AWG cables for control circuit solid       1x (20 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         tightening torque       0.8 12 N·m         • for auxiliary and control contacts with screw-type terminals       10 14 N·m         • for auxiliary and control contacts with screw-type       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       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		4 250 kcmil
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 2.5 mm²), 2x (0.5 1.5 mm²)         • for AWG cables for control circuit solid       1x (20 12), 2x (20 14)         wire length       • between soft starter and motor maximum         • 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 maxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       89 124 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 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 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	<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 finely stranded with core end processing</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 motor maximum</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliary and control contacts with scr</li></ul>	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	25 120 mm²
<ul> <li>for control circuit finely stranded with core end processing         <ul> <li>for AWG cables for control circuit solid</li> <li>tx (0.5 2.5 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> </ul> </li> <li>for AWG cables for control circuit solid</li> <li>tx (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>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>for auxiliar</li></ul></li></ul>	type of connectable conductor cross-sections	
• 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 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 auxiliary and control contacts with screw-type       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 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         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	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
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         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 +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 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 occcasional condensation), 1C2 (no salt mist),	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
between soft starter and motor maximum800 mat the digital inputs at AC maximum1 000 mtightening torque1 0 14 N·m• for main contacts with screw-type terminals10 14 N·m• for auxiliary and control contacts with screw-type terminals0.8 1.2 N·mtightening torque [lbf·in]89 124 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-intightening torque [lbf·in]89 124 lbf-in• for auxiliary and control contacts with screw-type terminals7 10.3 lbf-inmistallation altitude at height above sea level maximum5 000 m; derating as of 1000 m, see Manualambient temperature • during operation-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	<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
• at the digital inputs at AC maximum       1 000 m         tightening torque       • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type       0.8 1.2 N·m         tightening torque [lbf·in]       • for main contacts with screw-type terminals         • for main 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       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 +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	
tightening torque         • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type         tightening torque [lbf·in]         • for main contacts with screw-type terminals         tightening torque [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         • during storage and transport         • during operation according to IEC 60721         • during storage according to IEC 60721		
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>tightening torque [lbf·in]</li> <li>for main contacts with screw-type terminals</li> <li>89 124 lbf·in</li> <li>for auxiliary and control contacts with screw-type terminals</li> <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>fouring operation</li> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> </ul>		1 000 m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> <li>tightening torque [lbf·in]         <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> </li> <li>Ambient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>during operation</li> <li>during storage and transport</li> <li>during operation according to IEC 60721</li> <li>K6 (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> </ul> </li> </ul>	tightening torque	
terminals       Image: Construct of the series	<ul> <li>for main contacts with screw-type terminals</li> </ul>	
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>a 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>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>during storage according to IEC 60721</li> <li>46 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> </ul> </li> </ul>		0.8 1.2 N·m
• 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 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	tightening torque [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	<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 (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		7 10.3 lbf·in
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>-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>during storage according to IEC 60721</li> <li>46 (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>46 (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       -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	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	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>IK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get</li> </ul>	<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
• during storage according to IEC 60721     (sand must not get into the devices), 3M6     (sand must not get into the devices), 3M6     (Kand must not get into the devices), 3M6	environmental category	
	during operation according to IEC 60721	
	during storage according to IEC 60721	

<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	
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; Iq = 10 kA
of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; Iq = 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	40 hp
• at 220/230 V at 50 °C rated value	40 hp
• at 460/480 V at 50 °C rated value	100 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 to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	9E-6 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a 
certificate of suitability • ATEX	Yes
ATEX     IECEX	
IECEX     UKEX	Yes
OKEX Approvals Certificates	Yes
General Product Approval	
Confirmation EG-Konf.	
EMV For use in hazardous locations	Test Certificates Marine / Shipping
EMV For use in hazardous locations	Miscellaneous Type Test Certific-
	Miscellaneous Type Test Certific-





**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=3RW5055-6AB14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3RW5055-6AB14$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5055-6AB14&lang=en

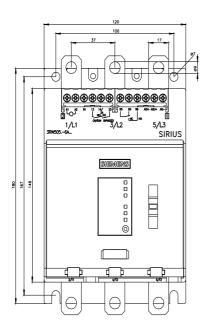
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6AB14/char

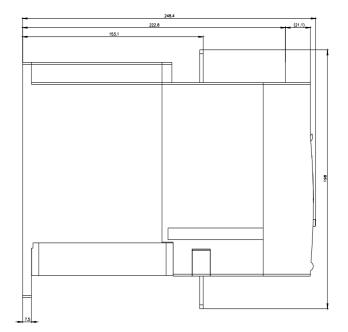
Characteristic: Installation altitude

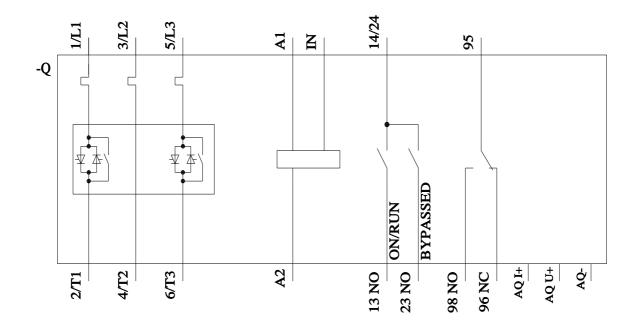
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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