## SIEMENS

## Data sheet

## 3RW5225-3TC14



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC spring-type terminals Thermistor input

SIRIUS Hybrid switching devices Soft starter 3RW5980-0HS00 3RW5980-0HF00 3RW5980-0CS00		
Soft starter 3RW52 <u>3RW5980-0HS00</u> <u>3RW5980-0HF00</u>		
3RW52 <u>3RW5980-0HS00</u> <u>3RW5980-0HF00</u>		
<u>3RW5980-0HS00</u> <u>3RW5980-0HF00</u>		
<u>3RW5980-0HF00</u>		
<u>3RW5980-0HF00</u>		
<u>3RW5980-0CS00</u>		
<u>3RW5980-0CP00</u>		
<u>3RW5980-0CT00</u>		
<u>3RW5980-0CR00</u>		
<u>3RW5980-0CE00</u>		
3VA2163-7MN32-0AA0: Type of coordination 1, lq = 65 kA, CLASS 10		
3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10		
3VA2110-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10		
3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10		
<u>3NA3830-6; Type of coordination 1, Iq = 65 kA</u>		
<u>3NA3830-6; Type of coordination 1, Iq = 65 kA</u>		
<u>3NE1022-0; Type of coordination 2, Iq = 65 kA</u>		
<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>		
30 100 %		
50 50 %		
0 20 s		
130 700 %		
Yes		
/es		
Yes		
Yes		
Yes		
Yes		
3		
CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2		

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			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 400 V			
service factor	1			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V			
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz			
utilization category acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
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; Full motor protection (thermistor motor protection and electronic motor overload protection)			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick			
<ul> <li>inside-delta circuit</li> </ul>	Yes			
<ul> <li>auto-RESET</li> </ul>	Yes			
manual RESET	Yes			
<ul> <li>remote reset</li> </ul>	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			
<ul> <li>firmware update</li> </ul>	Yes			
<ul> <li>removable terminal for control circuit</li> </ul>	Yes			
torque control	No			
analog output	No			
Power Electronics				
operational current				
• at 40 °C rated value	63 A			
at 50 °C rated value	56 A			
at 60 °C rated value	51 A			
operational current at inside-delta circuit				
• at 40 °C rated value	109 A			
• at 50 °C rated value	96 A			
at 60 °C rated value	87.5 A			
operating voltage	200 400 \/			
rated value     activation delta aircuit rated value	200 480 V			
at inside-delta circuit rated value	200 480 V -15 %			
relative negative tolerance of the operating voltagerelative positive tolerance of the operating voltage	-15 %			
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	-15 %			
relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at	-15 %			
inside-delta circuit				
operating power for 3-phase motors	10 E 1/M			
• at 230 V at 40 °C rated value	18.5 kW			

• at 230 V at inside-delta circuit at 40 °C rated value	30 kW		
• at 400 V at 40 °C rated value	30 kW		
at 400 V at inside-delta circuit at 40 °C rated value	55 kW		
Operating frequency 1 rated value	50 Hz		
Operating frequency 2 rated value	60 Hz		
relative negative tolerance of the operating frequency	-10 %		
relative positive tolerance of the operating frequency	10 %		
adjustable motor current			
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	25.5 A		
at rotary coding switch on switch position 2	28 A		
at rotary coding switch on switch position 3	30.5 A		
• at rotary coding switch on switch position 4	33 A		
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	35.5 A		
• at rotary coding switch on switch position 6	38 A		
at rotary coding switch on switch position 7	40.5 A		
at rotary coding switch on switch position 8	43 A		
at rotary coding switch on switch position 9	45.5 A		
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> </ul>	48 A		
<ul> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> </ul>	50.5 A		
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 12</li> </ul>	53 A		
<ul> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> </ul>	55.5 A 58 A		
<ul> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> </ul>	58 A 60.5 A		
at rotary coding switch on switch position 15     at rotary coding switch on switch position 16	63 A		
minimum	25.5 A		
adjustable motor current	20.07		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	44.2 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	48.5 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	52.8 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	57.2 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	61.5 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	65.8 A		
for inside-delta circuit at rotary coding switch on switch position 7	70.1 A		
for inside-delta circuit at rotary coding switch on switch position 8	74.5 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	78.8 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	83.1 A 87.5 A		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	91.8 A		
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	96.1 A		
<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	100 A		
switch position 14 • for inside-delta circuit at rotary coding switch on	105 A		
<ul><li>switch position 15</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	109 A		
switch position 16	44.2.4		
at inside-delta circuit minimum	44.2 A		
minimum load [%]	15 %; Relative to smallest settable le		
<ul> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> </ul>	31 W		
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> </ul>	31 W 29 W		
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> </ul>	29 W 27 W		
	21 VV		

power loss [W] at AC at current limitation 350 %				
<ul> <li>at 40 °C during startup</li> </ul>	882 W			
<ul> <li>at 50 °C during startup</li> </ul>	744 W			
<ul> <li>at 60 °C during startup</li> </ul>	659 W			
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	75 mA			
locked-rotor current at close of bypass contact 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				
Inputs/ Outputs number of digital inputs				
	not part of scope of supply			
number of digital inputs	not part of scope of supply			
number of digital inputs number of inputs for thermistor connection	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick			
number of digital inputs number of inputs for thermistor connection number of digital outputs	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable	1 1; Type A PTC or Klixon / Thermoclick 3 2			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of digital inputs number of inputs for thermistor connection number of digital outputs • not parameterizable digital output version number of analog outputs	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs	1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value	1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value	1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         odepth         required spacing with side-by-side mounting         oforwards         outpwards         outpwards         outpwards	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         oforwards         ownwards         odownwards         odownwards         odownwards         weight without packaging	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm			
number of digital inputs         number of inputs for thermistor connection         number of digital outputs         • not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         oforwards         odownwards         odownwards         odownwards         oat the side         weight without packaging         Connections/ Terminals	not part of scope of supply 1 1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm			

width of connection bar maximum	25 mm			
wire length for thermistor connection				
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m			
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m			
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m			
type of connectable conductor cross-sections				
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)			
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)			
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)			
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)			
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)			
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)			
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)			
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)			
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)			
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)			
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)			
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)			
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)			
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)			
wire length				
between soft starter and motor maximum	800 m			
at the digital inputs at AC maximum	100 m			
<ul> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m			
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m			
terminals				
tightening torque [lbf·in]				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in			
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in			
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog			
ambient temperature	S Soo III, Deralling as SI TOUD III, See Calalog			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C			
environmental category				
• during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
EMC emitted interference	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol				
communication module is supported				
PROFINET standard	Yes			

EtherNet/IP	Yes				
Modbus RTU	Yes				
Modbus TCP	Yes				
• PROFIBUS	Yes				
CSA ratings	_				
anufacturer's article number • of circuit breaker					
usable for Standard Faults at 460/480 V     according to UL	Siemens type: 3RV2	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA			
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA				
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA5	Siemens type: 3VA51, max. 125 A; Iq = 10 kA			
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA5	Siemens type: 3VA51, max. 125 A; lq max = 65 kA			
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA			
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA5	Siemens type: 3VA51, max. 125 A; Iq = 10 kA			
<ul> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA			
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, ma	Type: Class J / L, max. 225 A; lq = 100 kA			
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K	5, max. 200 A; lq = 10 k/	4		
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, ma	Type: Class J / L, max. 225 A; lq = 100 kA			
perating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	15 hp				
• at 220/230 V at 50 °C rated value	20 hp				
• at 460/480 V at 50 °C rated value	40 hp				
• at 200/208 V at inside-delta circuit at 50 °C rated value		30 hp			
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> </ul>	30 hp				
value	75 hp				
ntact rating of auxiliary contacts according to UL ety related data	R300-B300				
otection class IP on the front acc. to IEC 60529	IP00; IP20 with cove	r			
uch protection on the front acc. to IEC 60529		al contact from the front	with cover		
ectromagnetic compatibility	in accordance with I				
ificates/ approvals					
eneral Product Approval		EMC	Declaration of Conformity		
JU (J) AD	) <b>[D]</b>		CE		
			EG-Konf.		
est Certificates Marine / Shipping					
rpe Test Certific- tes/Test Report	Llovds Registe	· 🛞	DNV-GL		
ABS		PPS -	200V21.CENEU0/		

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5225-3TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-3TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5225-3TC14&lang=en

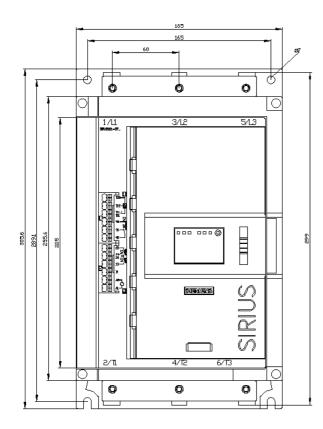
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

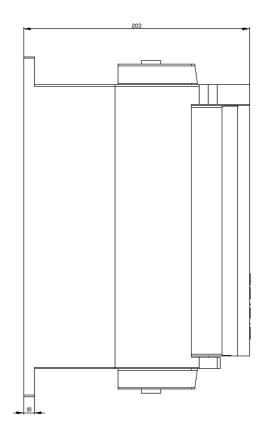
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC14/char

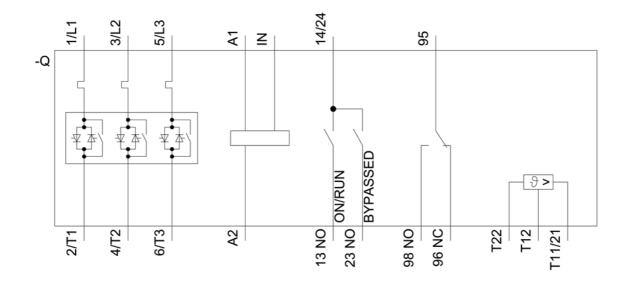
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-3TC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







last modified:

8/10/2021 🖸