## **SIEMENS**

Data sheet 3RW5214-1TC05



SIRIUS soft starter 200-600 V 18 A, 24 V AC/DC Screw terminals Thermistor input

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- $\bullet$  of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00 3RW5980-0CE00

3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NE1802-0; Type of coordination 2, Iq = 65 kA

3NE8020-1; Type of coordination 2, Iq = 65 kA

## General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

## product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

<ul> <li>for main current circuit</li> </ul>	100 ms
<ul> <li>for control circuit</li> </ul>	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
Soft Torque	Yes
adjustable current limitation	Yes
• pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
auto-RESET	Yes
manual RESET     remete reset	Yes
<ul><li>remote reset</li><li>communication function</li></ul>	Yes; By turning off the control supply voltage Yes
<ul><li>operating measured value display</li><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
via software parameterizable	No
<ul> <li>via software configurable</li> </ul>	
<ul><li>via software configurable</li><li>PROFlenergy</li></ul>	Yes Yes; in connection with the PROFINET Standard communication module
PROFlenergy	
e e e e e e e e e e e e e e e e e e e	Yes; in connection with the PROFINET Standard communication module Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes No
PROFlenergy     firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics	Yes; in connection with the PROFINET Standard communication module Yes Yes No
PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics operational current at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 18 A 15.9 A
PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value  at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 18 A 15.9 A
PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 18 A 15.9 A 13.8 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value  at 50 °C rated value  at 60 °C rated value  operational current at inside-delta circuit  at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 18 A 15.9 A 13.8 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current  at 40 °C rated value at 50 °C rated value  operational current at inside-delta circuit at 40 °C rated value  operational current at inside-delta circuit at 40 °C rated value  or at 40 °C rated value  or at 50 °C rated value  or at 50 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 18 A 15.9 A 13.8 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value  operational current at inside-delta circuit at 40 °C rated value  other at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 18 A 15.9 A 13.8 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value  operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No 18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value  at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A 31.5 A 28 A 23.9 A 200 600 V 200 600 V
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  Operational current  at 40 °C rated value at 50 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at value  at 50 °C rated value  at 60 °C rated value  at 60 °C rated value  at 60 °C rated value  operating voltage  rated value  at inside-delta circuit rated value  relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 %
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value  at 50 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  at 50 °C rated value  at 60 °C rated value  at 60 °C rated value  operating voltage  rated value  operating voltage  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 %
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value  at 50 °C rated value  at 60 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at value  at 50 °C rated value  at 50 °C rated value  at 60 °C rated value  at 60 °C rated value  at 60 °C rated value  operating voltage  rated value  operating voltage  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value  at 50 °C rated value  at 60 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at value  at 50 °C rated value  at 50 °C rated value  at 60 °C rated value  at 60 °C rated value  operating voltage  rated value  at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy  In firmware update  In removable terminal for control circuit  In torque control  In analog output  Power Electronics  Operational current  In at 40 °C rated value  In at 50 °C rated value  In at 60 °C rated value  In at 40 °C rated value  In at 60 °C rated	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy  In firmware update  removable terminal for control circuit  torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value  operational current at inside-delta circuit at 40 °C rated value  operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 % -15 % 10 %
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value  at 50 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operating voltage  rated value  operating voltage  rated value  operating voltage  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors  at 230 V at 40 °C rated value  at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  18 A 15.9 A 13.8 A  31.5 A 28 A 23.9 A  200 600 V 200 600 V -15 % 10 % -15 % 10 %

• at 500 V at inside-delta circuit at 40 °C rated value	18.5 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>	7.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	8.2 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	8.9 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	9.6 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	10.3 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	11 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	11.7 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	12.4 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	13.1 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	13.8 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	14.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	15.2 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	15.9 A
at rotary coding switch on switch position 14	16.6 A
at rotary coding switch on switch position 15	17.3 A
at rotary coding switch on switch position 16	18 A
• minimum	7.5 A
adjustable motor current	40.4
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	13 A
for inside-delta circuit at rotary coding switch on	14.2 A
switch position 2	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	15.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	16.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	17.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	19.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	20.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	21.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	22.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	23.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	25.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	26.3 A
• for inside-delta circuit at rotary coding switch on switch position 13	27.5 A
for inside-delta circuit at rotary coding switch on switch position 14     for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at	28.8 A
for inside-delta circuit at rotary coding switch on switch position 15     for inside delta circuit at rotary coding switch on	30 A
for inside-delta circuit at rotary coding switch on switch position 16     a et inside delta circuit minimum	31.2 A
at inside-delta circuit minimum     minimum load [%]	13 A 15 %; Relative to smallest settable le
minimum load [%] power loss [W] for rated value of the current at AC	13 /0, Relative to Smallest Settable le
• at 40 °C after startup	17 W
• at 50 °C after startup	17 W
at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	276 W
at 50 °C during startup	241 W
at 60 °C during startup	200 W
Control circuit/ Control	

type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz	-20 /0
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply	20 %
voltage at AC at 60 Hz	
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at DC	
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control	12.1 ms
supply voltage	V
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
<ul> <li>not parameterizable</li> </ul>	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
VENUL	LAZ HIIII
•	
required spacing with side-by-side mounting	
required spacing with side-by-side mounting  • forwards	10 mm
required spacing with side-by-side mounting	10 mm 0 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals screw-type terminals

2x (1.0 ... 2.5 mm²), 2x (2.5 ... 10 mm²) — solid - finely stranded with core end processing 2x (1.0 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6.0 mm<sup>2</sup>) • at AWG cables for main current circuit solid 2x (16 ... 12), 2x (14 ... 8) type of connectable conductor cross-sections • for control circuit solid 1x (0.5 ... 4.0 mm<sup>2</sup>), 2x (0.5 ... 2.5 mm<sup>2</sup>) • for control circuit finely stranded with core end 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) processing • at AWG cables for control circuit solid 1x (20 ... 12), 2x (20 ... 14) wire length 800 m between soft starter and motor maximum at the digital inputs at AC maximum 100 m at the digital inputs at DC maximum 1 000 m tightening torque 2 ... 2.5 N·m for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 0.8 ... 1.2 N·m terminals tightening torque [lbf·in] 18 ... 22 lbf·in • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type 7 ... 10.3 lbf·in terminals **Ambient conditions** installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -25 ... +60 °C; Please observe derating at temperatures of 40 °C or · during operation above during storage and transport -40 ... +80 °C environmental category during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) **EMC** emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard Yes EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes **UL/CSA** ratings manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA according to UL Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 usable for High Faults at 460/480 V according usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA inside-delta circuit according to UL - usable for High Faults at 460/480 V at inside-Siemens type: 3VA51, max. 35 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 70 A; Iq = 5 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 70 A; Iq = 100 kA according to UL Type: Class RK5 / K5, max. 70 A; Iq = 5 kA usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 70 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value

3 hp

<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	5 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	10 hp
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	10 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	7.5 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	7.5 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	20 hp
<ul> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> </ul>	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	in accordance with IEC 60947-4-2

Certificates/ approvals

**General Product Approval** 

EMC



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5214-1TC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5214-1TC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1TC05

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5214-1TC05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

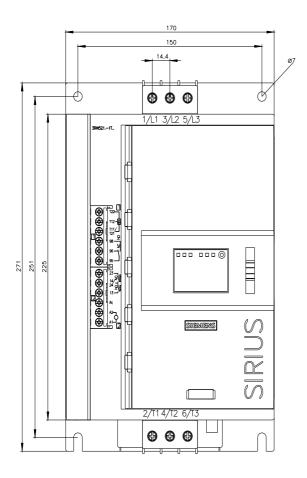
https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1TC05/char

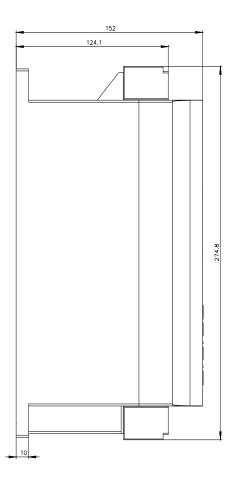
Characteristic: Installation altitude

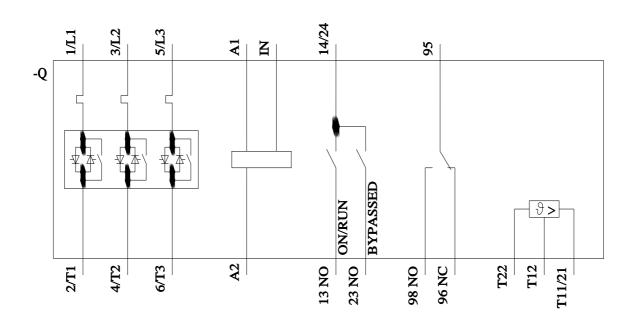
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5214-1TC05\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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