# **SIEMENS**

Data sheet 3RW5226-1TC14



SIRIUS soft starter 200-480 V 77 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS00
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3132-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3132-6; 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>	3NE1224-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE8024-1; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stonning voltage [%]	50 50 %

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
<ul> <li>CE marking</li> </ul>	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure		
For control circuit	buffering time in the event of power failure	
Insulation voltage rated value degree of pollution Impulse voltage rated value blocking voltage of the thyristor maximum service factor service factor • the ween main and auxiliary circuit • between main and auxiliary circuit • solock resistance • Ultration resistance • Ultration resistance • Ultration resistance • contraction (off stop) • resistance Prohibitance (Date)	for main current circuit	100 ms
degree of pollution impulse voltage rated value impulse voltage of the thyristor maximum service factor  1 1  1 400 V  service factor  1 6 6 V  maximum permissible voltage for safe isolation between main and auxillary circuit 600 V  shock resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 16 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 17 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 18 g/11 ms from 12 g/11 ms with pote		
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blocking voltage of the thyristor maximum   1 400 V   1		3, acc. to IEC 60947-4-2
service factor   1  maximum permissible voltage for safe isolation		6 kV
surge voltage resistance rated value maximum permissible voltage for safe isolation between main and auxiliary circuit shock resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting vibration category acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15 02 2018 00:00:00  Framp-up (soft starting) ramp-down (soft stop) ramp		
with mum permissible voltage for safe isolation	service factor	1
e between main and auxiliary circuit         690 Y           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 81348-2         Q           Substance Prohibitance (Pate)         15.02.2018 00:00:00           e ramp-up (soft starting)         Yes           e ramp-down (soft stop)         Yes           e Soft Torque         Yes           e July stable current limitation         Yes           e valuation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           e evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           e valuation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           e ramptage cells activities         Yes           e ramptage cells activities <t< th=""><th></th><th>6 kV</th></t<>		6 kV
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vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           trillization category soc. to IEC 80947-4-2         AC 53a           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         15.02.2018 00:00:00           product function         Yes           • ramp-up (soft starting)         Yes           • ramp-down (soft stop)         Yes           • Soft Torque         Yes           • adjustable current limitation         Yes           • pump ramp down         Yes           • intrinsic device protection         Yes           • waluston of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)           • evaluation of thermistor motor protection         Yes; Full motor protection (thermistor motor protection and electronic motor protection and electr	between main and auxiliary circuit	
reference code acc. to IEC 60947-4-2 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) ramp-down (soft starting) ramp-down (soft starting) ramp-down (soft starting) ramp-down (soft starting) respectively adjustable current limitation representation of themistor motor protection revealuation of themistor motor protection in motor overload protection) revealuation of themistor motor protection respective positive tolerance of the operating voltage rated value relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operatin	shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
Interest   Problem   Pro		
Substance Prohibitance (Date)   15.02.2018 00.00:00		AC 53a
ramp-up (soft starting)		
• ramp-up (soft starting) • ramp-down (soft storp) • ramp-down (soft storp) • soft Torque • adjustable current limitation • pump ramp down • motor overload protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • manual RESET • remote reset • communication function • operating measured value display • eiror logbook • via software parameterizable • via software parameterizable • via software configurable • removable terminal for control circuit • torque control • analog output • to rated value • at 40 °C rated value • at 60 °C rated value • at 60 °C rated value • at 160		15.02.2018 00:00:00
• ramp-down (soft stop) • Soft Torque • Soft Torque • Soft Torque • Adjustable current limitation • pump ramp down • intrinsic device protection • evaluation of thermistor motor protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software configurable • PROFlenergy • firmware update • removable terminal for control circuit • torque control • analog output • other control • analog output • other control • analog output • other control • analog output • at 40 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • rated val	product function	
Soft Torque a ajustable current limitation pump ramp down rintrinsic device protection motor overload protection evaluation of thermistor motor protection inside-delta circuit auto-RESET remote reset communication function operating measured value display error logbook via software parameterizable via software originable removable terminal for control circuit et orque control operational current at 40 °C rated value at 150 °C rated val		
adjustable current limitation pump ramp down ves intrinsic device protection motor overload protection evaluation of thermistor motor protection ves; Type A PTC or Klixon / Thermoclick ves; Type A PTC or K	• • • • • • • • • • • • • • • • • • • •	
pump ramp down     intrinsic device protection     word overload protection     word overload protection     word overload protection     west justion of thermistor motor protection     west justion overload protection)     west justion overload protection overload protect	•	
intrinsic device protection motor overload protection motor overload protection  evaluation of thermistor motor protection inside-delta circuit inside-delta circuit  evaluation of thermistor motor protection  ves; Type A PTC or Klixon / Thermoclick  ves  evaluation of thermistor  ves  evaluation of thermistor  ves  evaluation of thermistor motor protection and electronic motor overload protection)  ves; Type A PTC or Klixon / Thermoclick  ves  evaluation of thermistor motor protection and electronic motor overload protection)  ves  ves  evaluation of thermistor motor protection and electronic motor overload protection.  Ves  ves  evaluation of thermistor motor protection and electronic motor overload protection.  Ves  ves  evaluation of thermistor motor protection and electronic motor overload protection.  Ves  evaluation of thermistor motor protection and electronic motor overload protection.  Ves  evaluation of thermistor motor protection and electronic motor overload protection.  Ves  ves  evaluation of thermistor motor protection.  Ves  ves  evaluation only in conjunction with special accessories  ves; Only in conj	-	
motor overload protection		
evaluation of thermistor motor protection  inside-delta circuit  auto-RESET  manual RESET  manual Resex  manual Re	·	
inside-delta circuit  auto-RESET  amanual RESET  femole reset  communication function  operating measured value display  error logbook  via software parameterizable  via software configurable  firmware update  femovable terminal for control circuit  otorque control  analog output  over Electronics  operational current  at 40 °C rated value  at 60 °C	<ul> <li>motor overload protection</li> </ul>	motor overload protection)
auto-RESET  manual RESET  remote reset  remote reset  communication function  operating measured value display  remote reset  communication function  operating measured value display  reside of the control supply voltage  remote reset  removable terminal for control circuit  orange output  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  resides delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  resides delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the operating voltage at inside-delta circuit  relative regative tolerance of the	·	
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remote reset		
communication function     operating measured value display     error logbook     via software parameterizable     via software configurable     via connection with the PROFINET Standard communication module     via software configurable     via connection with the PROFINET Standard communication module     via software configurable     via connection with the PROFINET Standard communication module     via software control connection with the PROFINET Standard communication module     via software control connection with the PROFINET Standard communication module     via software control connection with the PROFINET Standard communication module     via software control contro	manual RESET	
operating measured value display     error logbook     via software parameterizable     via software configurable     via software configurable     via software configurable     ves     PROFlenergy     Yes; only in conjunction with special accessories     No     ves     PROFlenergy     Yes, in connection with the PROFINET Standard communication module     firmware update     removable terminal for control circuit     ves     removable terminal for control circuit     ves     torque control     analog output     No     No     analog output  Over Electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at	remote reset	
error logbook     via software parameterizable     via software configurable     via software configurable     via software configurable     PROFlenergy     Yes; in connection with the PROFINET Standard communication module     firmware update     removable terminal for control circuit     ves     removable terminal for control circuit     volume control     analog output     No     analog output     No     vaniog output     ver     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 6		
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via software configurable     PROFlenergy     Yes, in connection with the PROFINET Standard communication module     removable terminal for control circuit     torque control     no     analog output     No     analog output     verent electronics  Operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 50 °C rated value     at 60 °C rated val		
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module  • firmware update • removable terminal for control circuit • torque control • torque control • no • analog output  No  Power Electronics  operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 40 °C rated value • at 40 °C rated value • at 60 °C rated value • at 50 °C rated value • at 80 °C rated value • at inside-delta circuit 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  operating power for 3-phase motors		
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operational current  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 40 °C rated value • at 60 °C rated value • at 40 °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  relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit	•	
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operational current at inside-delta circuit  • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value 118 A • at 60 °C rated value 107 A  operating voltage • rated value • at inside-delta circuit rated value 200 480 V  relative negative tolerance of the operating voltage relative positive 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		
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>107 A</li> </ul> Operating voltage <ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>10 %</li> </ul> relative positive tolerance of the operating voltage at inside-delta circuit <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>operating power for 3-phase motors</li>		62 A
<ul> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operating voltage <ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> </ul> </li> <li>10 % <ul> <li>10 %</li> </ul> </li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> </ul>	•	400 A
● 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 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		
operating voltage  • rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive 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		
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative positive tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>operating power for 3-phase motors</li> </ul>		107 A
● at inside-delta circuit rated value  relative negative tolerance of the operating voltage relative positive 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  operating power for 3-phase motors  200 480 ∨  -15 %  -15 %  10 %		200 490 V
relative negative tolerance of the operating voltage relative positive 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 operating power for 3-phase motors  -15 %  10 %		
relative positive 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 operating power for 3-phase motors		
relative negative 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		
inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors		
inside-delta circuit operating power for 3-phase motors		-13 /0
		10 %
• at 230 V at 40 °C rated value 22 kW	operating power for 3-phase motors	
	• at 230 V at 40 °C rated value	22 kW

a at 220 V at incide delta sirevit at 40 °Ctt!	27 MM
at 230 V at inside-delta circuit at 40 °C rated value     t 400 V at 40 °C rated value	37 kW
• at 400 V at 40 °C rated value	37 kW
at 400 V at inside-delta circuit at 40 °C rated value	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 positive tolerance of the operating frequency	10 %
adjustable motor current	20.4
at rotary coding switch on switch position 1	32 A
at rotary coding switch on switch position 2	35 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	38 A
at rotary coding switch on switch position 4	41 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	44 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	47 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	50 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	53 A
at rotary coding switch on switch position 9	56 A
at rotary coding switch on switch position 10	59 A
at rotary coding switch on switch position 11	62 A
at rotary coding switch on switch position 12	65 A
at rotary coding switch on switch position 13	68 A
at rotary coding switch on switch position 14	71 A
at rotary coding switch on switch position 15	74 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	77 A
• minimum	32 A
of rinside-delta circuit at rotary coding switch on switch position 1.	55.4 A
<ul> <li>switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	60.6 A
for inside-delta circuit at rotary coding switch on switch position 3	65.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	71 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	76.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	81.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	86.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	91.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	97 A
for inside-delta circuit at rotary coding switch on switch position 10	102 A
for inside-delta circuit at rotary coding switch on switch position 11     for inside delta circuit at rotary coding switch on	107 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	113 A 118 A
ior inside-delta circuit at rotary coding switch on switch position 13     for inside-delta circuit at rotary coding switch on	123 A
switch position 14     for inside-delta circuit at rotary coding switch on	128 A
switch position 15  • for inside-delta circuit at rotary coding switch on	133 A
switch position 16  • at inside-delta circuit minimum	55.4 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	35 W
at 50 °C after startup	32 W
at 60 °C after startup	31 W
are of arter eventup	

power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 107 W
<ul> <li>at 50 °C during startup</li> </ul>	933 W
at 60 °C during startup	826 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	1
number of digital inputs	1 1: Type A PTC or Klivon / Thermoclick
number of digital inputs number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital inputs number of inputs for thermistor connection number of digital outputs	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; 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	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	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 number of analog outputs switching capacity current of the relay outputs	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; 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; 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 • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 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; 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	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
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	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)  0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
number of digital inputs number of inputs for thermistor connection number of digital outputs	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)  0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 • backwards	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 • downwards • at the side	1; Type A PTC or Klixon / Thermoclick 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 • forwards • backwards • upwards • downwards • at the side weight without packaging	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)  0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)  0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 • forwards • backwards • upwards • downwards • at the side  weight without packaging  Connections/ Terminals type of electrical connection	1; Type A PTC or Klixon / Thermoclick  3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5 mm

width of connection bar maximum	25 mm
wire length for thermistor connection	
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 1.5 mm² maximum	150 m
with conductor cross-section = 1.5 min maximum     with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	200 111
for main contacts for box terminal using the front clamping point solid	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)
for main contacts for box terminal using both clamping points solid	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	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<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)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at AC maximum	100 m
tightening torque	
<ul> <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 terminals</li> </ul>	0.8 1.2 N·m
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	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
• during storage acc. to IEC 60721	mist), 3S2 (sand must not get into the devices), 3M6 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
communication module is supported	Yes Yes

Modbus TCPPROFIBUSYes

#### **UL/CSA** ratings

#### manufacturer's article number

#### of circuit breaker

— usable for Standard Faults at 460/480 V according to UL

— usable for High Faults at 460/480 V according to UL

— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  $\,$ 

— usable for High Faults at 460/480 V at inside-delta circuit according to UL  $\,$ 

— usable for Standard Faults at 575/600 V according to UL

— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

#### • of the fuse

— usable for Standard Faults up to 575/600 V according to UL  $\,$ 

— usable for High Faults up to 575/600 V according to UL

— 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 to 575/600 V according to UL

## Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Type: Class RK5 / K5, max. 250 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

Type: Class RK5 / K5, max. 250 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

### operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value

• at 220/230 V at 50 °C rated value

at 460/480 V at 50 °C rated value

 at 200/208 V at inside-delta circuit at 50 °C rated value

 at 220/230 V at inside-delta circuit at 50 °C rated value

 at 460/480 V at inside-delta circuit at 50 °C rated value 20 hp

25 hp

50 hp

30 hp

40 hp

75 hp

contact rating of auxiliary contacts according to UL

R300-B300

# Safety related data

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

electromagnetic compatibility

IP00: IP20 with cover

finger-safe, for vertical contact from the front with cover

in accordance with IEC 60947-4-2

## Certificates/ approvals

# **General Product Approval**

EMC

Declaration of Conformity













**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











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=3RW5226-1TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-1TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5226-1TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

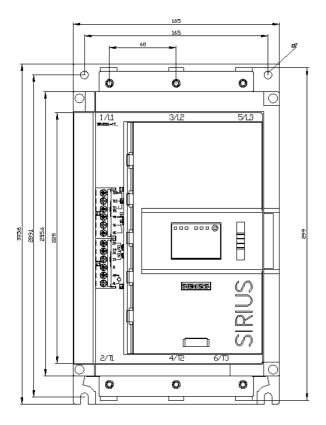
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC14/char

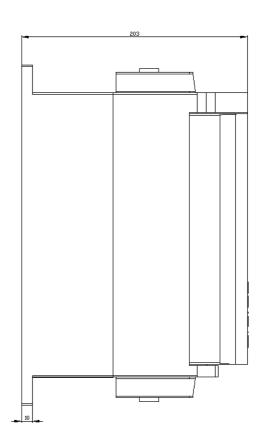
Characteristic: Installation altitude

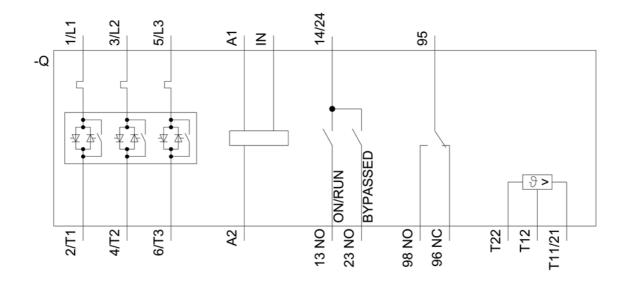
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1TC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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