# **SIEMENS**

Data sheet 3RW5225-1AC14



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC Screw terminals Analog output

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	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>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3830-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3830-6; 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>	3NE1022-0; 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 %
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 areat of name fallows				
buffering time in the event of power failure	400			
for main current circuit     for control pinnit	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	000.14			
between main and auxiliary circuit	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				
• 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			
motor overload protection	Yes; Electronic motor overload protection			
evaluation of thermistor motor protection	No			
• inside-delta circuit	Yes			
auto-RESET	Yes			
manual RESET	Yes			
• remote reset	Yes; By turning off the control supply voltage			
communication function	Yes			
operating measured value display	Yes; Only in conjunction with special accessories			
• error logbook	Yes; Only in conjunction with special accessories			
via software parameterizable	No			
• via software configurable	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
• firmware update	Yes			
<ul> <li>removable terminal for control circuit</li> </ul>	Yes			
<ul><li>torque control</li></ul>	No			
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)			
Power Electronics				
operational current				
<ul> <li>at 40 °C rated value</li> </ul>	63 A			
• at 50 °C rated value	56 A			
at 60 °C rated value	51 A			
operational current at inside-delta circuit				
<ul> <li>at 40 °C rated value</li> </ul>	109 A			
• at 50 °C rated value	96 A			
at 60 °C rated value	87.5 A			
operating voltage				
rated value	200 480 V			
at inside-delta circuit rated value	200 480 V			
relative negative tolerance of the operating voltage	-15 %			
relative positive tolerance of the operating voltage	10 %			
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %			
relative positive tolerance of the operating voltage at inside-delta circuit	10 %			
operating power for 3-phase motors				
• at 230 V at 40 °C rated value	18.5 kW			

at 220 \/ at inside delte eigenit et 40 00	20 144
at 230 V at inside-delta circuit at 40 °C rated value     t 400 V 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
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	28 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	30.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	33 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	35.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	38 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	40.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	43 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	45.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	48 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	50.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	53 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	55.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	58 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	60.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	63 A
• minimum	25.5 A
adjustable motor current	
<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
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	70.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	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> </ul>	83.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	87.5 A
for inside-delta circuit at rotary coding switch on switch position 12  for inside delta circuit at rotary coding switch on switch position 12	91.8 A
for inside-delta circuit at rotary coding switch on switch position 13	96.1 A
for inside-delta circuit at rotary coding switch on switch position 14	100 A
for inside-delta circuit at rotary coding switch on switch position 15  for inside delta circuit at rotary coding switch on	105 A
for inside-delta circuit at rotary coding switch on switch position 16      the delta circuit religious.	109 A
at inside-delta circuit minimum	44.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	24 14/
• at 40 °C after startup	31 W
• at 50 °C after startup	29 W
at 60 °C after startup	27 W

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				
at 60 °C during startup	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  1				
number of digital inputs number of inputs for thermistor connection	not part of scope of supply  1 0				
number of digital inputs number of inputs for thermistor connection number of digital outputs	not part of scope of supply  1 0 3				
number of digital inputs number of inputs for thermistor connection number of digital outputs  • not parameterizable	not part of scope of supply  1 0 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 0 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 0 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	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1				
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	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1				
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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 fastening method	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 • backwards	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 • downwards • at the side	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1  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 • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1  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 • forwards • backwards • upwards • downwards • at the side weight without packaging	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1  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 • forwards • backwards • upwards • downwards • at the side  weight without packaging  Connections/ Terminals type of electrical connection	not part of scope of supply  1 0 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 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 5.6 kg				

width of connection bar maximum	25 mm				
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>	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)				
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)				
wire length					
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m				
<ul> <li>at the digital inputs at AC maximum</li> </ul>	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 mist), 3S2 (sand must not get into the devices), 3M6				
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4				
during transport acc. 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					
<ul> <li>PROFINET standard</li> </ul>	Yes				
EtherNet/IP	Yes				
<ul><li>Modbus RTU</li></ul>	Yes				
Modbus TCP	Yes				
• PROFIBUS	Yes				
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 insidedelta 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: 3RV2742, max. 70 A or 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: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA

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

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 A; Iq = 100 kA

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 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
- $\bullet$  at 460/480 V at inside-delta circuit at 50  $^{\circ}\text{C}$  rated value

15 hp

20 hp 40 hp

30 hp

30 hp

75 hp

R300-B300

# contact rating of auxiliary contacts according to UL

COIIL	act ratiii	y or aux	illary CC	macis	according	ιο	U
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=3RW5225-1AC14

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5225-1AC14}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5225-1AC14&lang=en

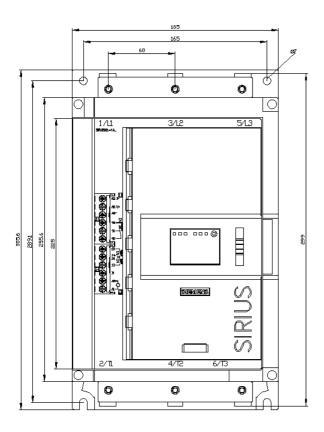
Characteristic: Tripping characteristics, I²t, Let-through current

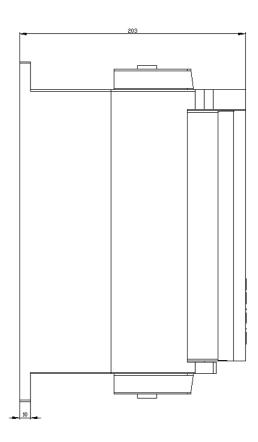
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC14/char

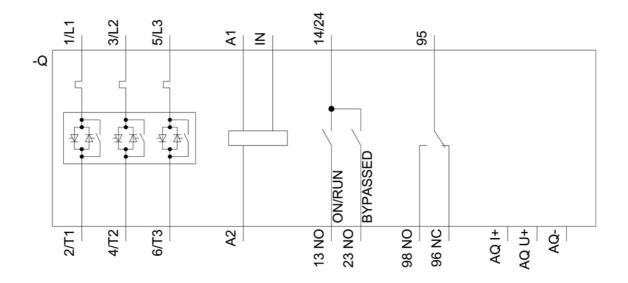
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







last modified: 8/10/2021 🖸