## SIEMENS

## Data sheet

## 3RW5225-3AC14



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC spring-type 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>	<u>3RW5980-0HS00</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	<u>3VA2163-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2163-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2110-7MN32-0AA0;</u> Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3830-6;</u> Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3830-6;</u> Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1022-0;</u> 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>	<u>3NE8024-1;</u> Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	

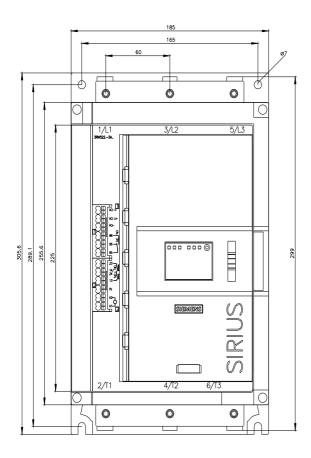
<ul> <li>for main current circuit</li> </ul>	100 ms
<ul> <li>for control circuit</li> </ul>	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
	6 kV
surge voltage resistance rated value	0 KV
<ul> <li>maximum permissible voltage for safe isolation</li> <li>between main and auxiliary circuit</li> </ul>	600 V
shock resistance	
	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
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 02/15/2018
Substance Prohibitance (Date)	02/15/2018
product function	Mar.
• 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
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
• at 40 °C rated value	63 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	55.5 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> </ul>	55.5 A 50.5 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> </ul>	55.5 A 50.5 A 109 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	55.5 A 50.5 A 109 A
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<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> </ul> operating voltage <ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 6</li></ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 %
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> </ul> operating voltage <ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <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> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 %
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<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C 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 at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 %
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <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 at inside-delta circuit</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>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 %
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<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 10 °C rated value</li> <li>at 10 °C rated value</li> <li>at 10 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % -15 %
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C 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 at inside-delta circuit</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> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % -15 %
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 10 °C rated value</li> <li>at 10 °C rated value</li> <li>at 10 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % -15 %

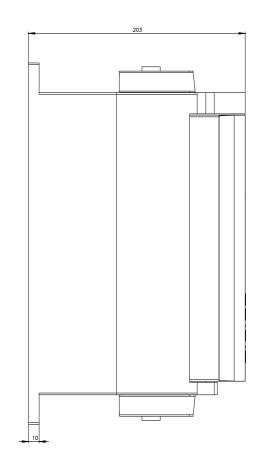
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	25.5 A
<ul> <li>at rotary coding switch on switch 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
at rotary coding switch on switch position 5	35.5 A
at rotary coding switch on switch position 6	38 A
<ul> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 2</li> </ul>	40.5 A
<ul> <li>at rotary coding switch on switch position 8</li> <li>at rotary coding switch on switch position 9</li> </ul>	43 A 45.5 A
<ul> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> </ul>	45.5 A 48 A
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> </ul>	50.5 A
at rotary coding switch on switch position 12	53 A
at rotary coding switch on switch position 13	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
at rotary coding switch on switch position 16	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> <li>for inside delta circuit at rotary coding switch on</li> </ul>	70.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	74.5 A 78.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	83.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	87.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	91.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	96.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	90.1 A 100 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	105 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	109 A
<ul> <li>In Inside-delta circuit at rotary county switch on switch position 16</li> <li>at inside-delta circuit minimum</li> </ul>	44.2 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	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 %	
• at 40 °C during startup	882 W
• at 50 °C during startup	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	

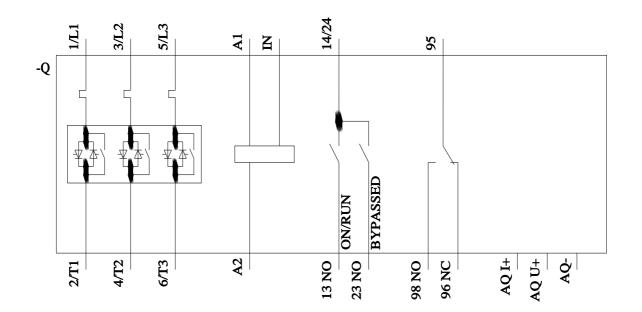
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance 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
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
	not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 1
switching capacity current of the relay outputs	I
at AC-15 at 250 V rated value	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions	1 A
Installation/ mounting/ dimensions	
	+/- 10° rotation possible and can be tilted forward or backward on
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Installation/ mounting/ dimensions mounting position fastening method	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
Installation/ mounting/ dimensions mounting position fastening method height	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	<ul> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.6 kg</li> </ul> box terminal
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	+/- 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	<ul> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.6 kg</li> </ul> box terminal
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections	+/- 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 box terminal spring-loaded terminals 25 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid	<ul> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.6 kg</li> </ul> box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm <sup>2</sup> )
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	+/- 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 box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> )
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	<ul> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.6 kg</li> </ul> box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> ) 1x (10 70 mm <sup>2</sup> )
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the front clamping point	+/- 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 box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> ) 1x (10 70 mm <sup>2</sup> ) 1x (10 2/0)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side weight without packaging</li> </ul> <li>Connections/ Terminals type of electrical connection             <ul> <li>for main current circuit</li> <li>for connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing             <ul> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal</li> </ul></li></ul></li>	<ul> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.6 kg</li> </ul> box terminal spring-loaded terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> ) 1x (10 70 mm <sup>2</sup> )

<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> <li>tightening torque</li> </ul>	100 m
<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</li> </ul>	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	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
0 1	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation according 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 according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
a during transport according to IEC 60721	
<ul> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
	acc. 10 TEC 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	
<ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
according to UL — usable for High Faults at 460/480 V according	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
to UL — usable for Standard Faults at 460/480 V at inside dolta circuit according to UI	Siemens type: 3VA51, max. 125 A; lq = 10 kA
inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq = 10 kA
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> </ul>	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

according to UL — usable for High Faults up to 575/600 V	Type: Class J / L, max. 225 A; lq = 100 kA	
according to UL — usable for Standard Faults at inside-delta	Type: Class RK5 / K5, max. 200 A; lq = 10 kA	
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	Type: Class J / L, max. 225 A; lq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	15 hp	
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	20 hp	
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	40 hp	
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	30 hp	
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	30 hp	
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
touch protection on the front according to IEC 60529 electromagnetic compatibility	finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2	
Certificates/ approvals		
General Product Approval	EMC	
Confirmation	· · · · · ·	
CSA CCC		
Declaration of Conformity Test Certi	ficates Marine / Shipping	
CE UK Type Test	Report Joyds	
	Incession incession	
EG-Konf.	ADS BUREAU URS	
Marine / Shipping other		
Marine / Shipping Other		
<u>Confirmation</u>		
PRS		
Further information		
Information- and Downloadcenter (Catalogs, Brochure	95,)	
https://www.siemens.com/ic10		
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/proc	luct2mlfb=3RW5225-3AC14	
Cax online generator		
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-3AC14		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3AC14		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)		
http://www.automation.siemens.com/bilddb/cax_de.aspx? Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-throug	mlfb=3RW5225-3AC14⟨=en	
https://support.industry.siemens.com/cs/ww/en/ps/3RW52		
Characteristic: Installation altitude	ew=Search&mlfb=3RW5225-3AC14&objecttype=14&gridview=view1	
Simulation Tool for Soft Starters (STS)	ew-Gearchaming-Styriozzo-SAG 14a0bjecitype-14agnuview-view i	
	04047	
https://support.industry.siemens.com/cs/ww/en/view/1014	<u>94917</u>	







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