## SIEMENS

## Data sheet

## 3RW5213-3AC14



SIRIUS soft starter 200-480 V 13 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>	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3820-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3820-6; 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>	<u>3NE1815-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8017-1; Type of coordination 2, Iq = 65 kA</u>
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 %

current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	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	
for main current circuit	100 ms
for control circuit	100 ms

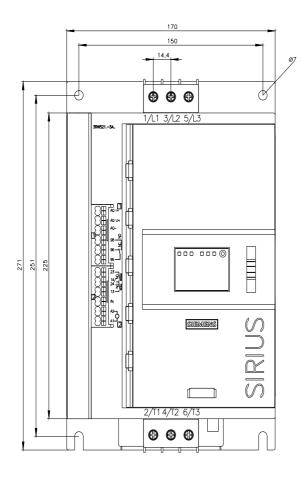
	200.)/
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
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	13 A
• at 50 °C rated value	11.5 A
at 60 °C rated value	10.5 A
operational current at inside-delta circuit	
at 40 °C rated value	22.5 A
• at 50 °C rated value	19.9 A
• at 60 °C rated value	18.2 A
operating voltage	200 400 1/
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	3 kW
• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
• at 400 V at 40 °C rated value	5.5 kW
at 400 V at inside-delta circuit at 40 °C rated value	11 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
operating nequency 2 rated value	VV 112

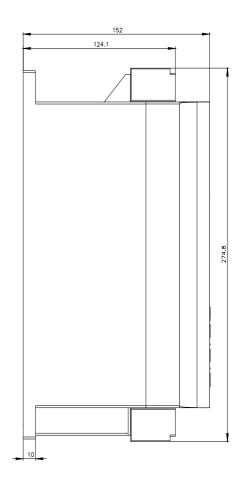
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	5.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	6 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	6.5 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	7 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	7.5 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	8 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	8.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	9 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	9.5 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	10 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	10.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	11 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	11.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	12 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	12.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	13 A
• minimum	5.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	9.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	10.4 A
for inside-delta circuit at rotary coding switch on switch     position 3	11.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	12.1 A 13 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	13.9 A
<ul> <li>position 6</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	14.7 A
<ul><li>position 7</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	15.6 A
<ul> <li>position 8</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	16.5 A
<ul> <li>position 9</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	17.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	18.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	19.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	19.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	20.8 A
• for inside-delta circuit at rotary coding switch on switch position 15	21.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>a st inside delta size/it minimum</li> </ul>	22.5 A
at inside-delta circuit minimum	9.5 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	16 W
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> </ul>	15 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	210.14/
• at 40 °C during startup	210 W
• at 50 °C during startup	178 W
at 60 °C during startup	161 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC

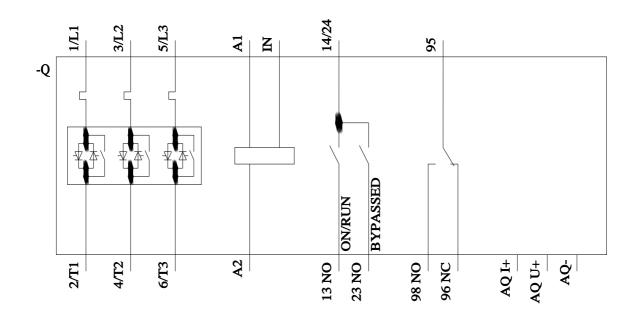
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage atAC 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 by closing the bypass contacts maximum	0.17 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	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
	3 Δ
• at AC-15 at 250 V rated value	3 A 1 A
<ul><li>at AC-15 at 250 V rated value</li><li>at DC-13 at 24 V rated value</li></ul>	3 A 1 A
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1A
<ul><li>at AC-15 at 250 V rated value</li><li>at DC-13 at 24 V rated value</li></ul>	
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
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	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
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	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 mm
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 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 mm
<ul> <li>at AC-15 at 250 V rated value             <ul></ul></li></ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 5 mm
• at AC-15 at 250 V rated value           • at DC-13 at 24 V rated value           Installation/ mounting/ dimensions           mounting position           fastening method           height           width           depth           required spacing with side-by-side mounting           • forwards           • backwards           • upwards           • at the side           weight without packaging           Connections/ Terminals           type of electrical connection	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
• at AC-15 at 250 V rated value           • at DC-13 at 24 V rated value           Installation/ mounting/ dimensions           mounting position           fastening method           height           width           depth           required spacing with side-by-side mounting           • forwards           • backwards           • upwards           • at the side           weight without packaging           Connections/ Terminals           type of electrical connection           • for main current circuit	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
<ul> <li>at AC-15 at 250 V rated value             <ul></ul></li></ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for control circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
• at AC-15 at 250 V rated value           • at DC-13 at 24 V rated value           Installation/ mounting/ dimensions           mounting position           fastening method           height           width           depth           required spacing with side-by-side mounting           • forwards           • backwards           • upwards           • at the side           weight without packaging           Connections/ Terminals           type of electrical connection           • for main current circuit           • for control circuit           type of connectable conductor cross-sections           • for main contacts	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals spring-loaded terminals
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>– solid</li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals spring-loaded terminals 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>– solid</li> <li>– finely stranded with core end processing</li> </ul>	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface</li> <li>screw fixing</li> <li>275 mm</li> <li>170 mm</li> <li>152 mm</li> <li>10 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>2.1 kg</li> <li>screw-type terminals</li> <li>spring-loaded terminals</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 6.0 mm<sup>2</sup>)</li> </ul>
• 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           • for main current circuit           • for control circuit           type of connectable conductor cross-sections           • for main contacts           — solid           — finely stranded with core end processing           • for AWG cables for main current circuit solid	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface</li> <li>screw fixing</li> <li>275 mm</li> <li>170 mm</li> <li>152 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>00 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>2.1 kg</li> <li>screw-type terminals</li> <li>spring-loaded terminals</li> <li>2x (1.0 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)</li> <li>2x (1.6 12), 2x (14 8)</li> </ul>
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> 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   • for main current circuit   • for main contacts   - solid   - finely stranded with core end processing   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections	1 A+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surfacescrew fixing275 mm170 mm152 mm10 mm0 mm10 mm0 mm100 mm210 mm10 mm2 mm10 mm2
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> 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   • for main current circuit   • for control circuit   type of connectable conductor cross-sections   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections   • for control circuit solid   type of connectable conductor cross-sections	1 A         +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface         screw fixing         275 mm         170 mm         152 mm         10 mm         0 mm         100 mm         75 mm         100 mm         75 mm         2.1 kg         screw-type terminals         spring-loaded terminals         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)         2x (0.25 1.5 mm²)         2x (0.25 1.5 mm²)
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> 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   • for main current circuit   • for main contacts   - solid   - finely stranded with core end processing   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections   • for AWG cables for main current circuit solid   type of connectable conductor cross-sections	1 A         +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface         screw fixing         275 mm         170 mm         152 mm         10 mm         0 mm         10 mm         0 mm         100 mm         75 mm         5 mm         2.1 kg         screw-type terminals         spring-loaded terminals         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)         2x (1.0 2.5 mm²), 2x (2.1 10 mm²)         2x (1.0 2.5 mm²), 2x (2.1 10 mm²)         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         2x (1.0 2.5 mm²), 2x (1.5 10 mm²)         2x (0.25 1.5 mm²)

core end processing	
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>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 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 above
during storage and transport	-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
• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
JL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
<ul> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside- delta circuit according to UL</li> <li>of the fuse</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
<ul> <li>— usable for Standard Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA 2 hp 3 hp 7.5 hp
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA 2 hp 3 hp 7.5 hp 5 hp
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA 2 hp 3 hp 7.5 hp 5 hp
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA 2 hp 3 hp 7.5 hp 5 hp 5 hp 10 hp
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class J / L, max. 50 A; lq = 100 kA 2 hp 3 hp 7.5 hp 5 hp

	buch protection on the front according to IEC 60529		cordance with IEC 60947-4	-2	finger-safe, for vertical contact from the front in accordance with IEC 60947-4-2		
ertificates/ approvals				-2			
General Product App					EMC		
SP.	<u>Confirmation</u>			EAC	RCM		
Declaration of Confo	ormity	Test Certificates	Marine / Shipping				
CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS	BU REAU VERITAS	Lloyds Register us		
Marine / Shipping	other						
PRS	Confirmation						
Siemens has decided https://press.siemens.c Siemens is working o Please contact your lo	on the renewal of the cu cal Siemens office on the	se/siemens-wind-down-rus rrent EAC certificates.	C certification if you intend	to import or offer to sup	ply these products to a		
Siemens has decided https://press.siemens.c Siemens is working of Please contact your lo EAC relevant market ( Information on the pa https://support.industry nformation- and Dov	com/global/en/pressrelea on the renewal of the cu ical Siemens office on the other than the sanctionec ackaging y.siemens.com/cs/ww/en/ wnloadcenter (Catalogs,	se/siemens-wind-down-rus rrent EAC certificates. status of validity of the EA I EAEU member states Ru view/109813875	C certification if you intend	to import or offer to sup	ply these products to a		
https://press.siemens.c Siemens is working of Please contact your lo EAC relevant market ( Information on the pa https://support.industry Information- and Dow https://www.siemens.co Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automati Service&Support (Ma https://support.industry	com/global/en/pressrelea on the renewal of the cu ical Siemens office on the other than the sanctioned ackaging y.siemens.com/cs/ww/en/ wnloadcenter (Catalogs, com/ic10 o ordering system) emens.com/mall/en/en/Ca r ion.siemens.com/WW/CA anuals, Certificates, Cha y.siemens.com/cs/ww/en/	se/siemens-wind-down-rus rrent EAC certificates. status of validity of the EA I EAEU member states Ru view/109813875 Brochures,) atalog/product?mlfb=3RWs Xorder/default.aspx?lang= acteristics, FAQs,) ps/3RW5213-3AC14	C certification if you intend ssia or Belarus). 5213-3AC14 een&mlfb=3RW5213-3AC14		ply these products to a		
Siemens has decided Ittps://press.siemens.c Siemens is working of Please contact your lo EAC relevant market ( information on the pa ittps://support.industry information- and Dow Ittps://www.siemens.c industry Mall (Online Ittps://mall.industry.sie Cax online generator Ittp://support.automati Service&Support (Ma Service&Support (Ma ittps://support.industry mage database (pro- ittp://www.automation Characteristic: Trippi	com/global/en/pressrelea on the renewal of the cu ical Siemens office on the other than the sanctioned ackaging y.siemens.com/cs/ww/en/ wnloadcenter (Catalogs, com/ic10 erdering system) emens.com/mall/en/en/Ca r ion.siemens.com/WW/CA anuals, Certificates, Cha y.siemens.com/cs/ww/en/ duct images, 2D dimens i.siemens.com/bilddb/cax ing characteristics, I*t, I	se/siemens-wind-down-rus rrent EAC certificates. status of validity of the EA I EAEU member states Ru view/109813875 Brochures,) atalog/product?mlfb=3RWs Xorder/default.aspx?lang= irracteristics, FAQs,) ps/3RW5213-3AC14 sion drawings, 3D models de.aspx?mlfb=3RW5213-	AC certification if you intend ssia or Belarus). 5213-3AC14 sen&mlfb=3RW5213-3AC14 s, device circuit diagrams		ply these products to a		







1/14/2023 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RW52133AC14