## SIEMENS

## Data sheet

## 3RW5214-1AC15



SIRIUS soft starter 200-600 V 18 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>	<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>3RV2032-4DA10;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3RV2032-4DA10;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3RV2032-4EA10;</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>3RV2032-4EA10;</u> Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3820-6;</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>3NA3820-6;</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>3NE1802-0;</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>3NE8020-1;</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 approval	Yes
<ul> <li>CSA approval</li> </ul>	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	

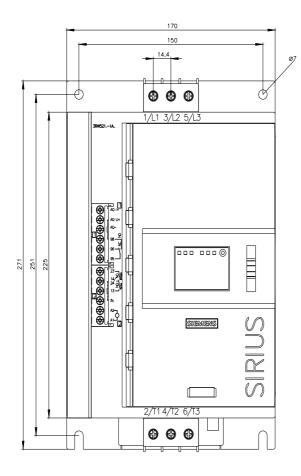
e for main ourrant aircuit	100 ms				
<ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>	100 ms				
	600 V				
insulation voltage rated value					
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 600 V				
service factor	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation	C00.)/				
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 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				
<ul> <li>remote reset</li> </ul>	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				
· via soltware parameterizable					
<ul> <li>via software configurable</li> <li>via software configurable</li> </ul>	Yes				
• via software configurable	Yes Yes; in connection with the PROFINET Standard communication				
<ul> <li>via software configurable</li> <li>PROFlenergy</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module				
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes				
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No				
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
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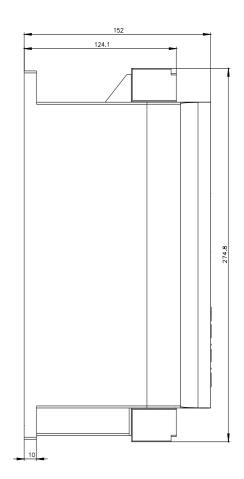
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	7.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	8.2 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	8.9 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	9.6 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	10.3 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	11 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	11.7 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	12.4 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	13.1 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	13.8 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	14.5 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	15.2 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	15.9 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	16.6 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	17.3 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	18 A
• minimum	7.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	13 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	14.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	15.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	16.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	17.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	19.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	20.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	21.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	22.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	23.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	25.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	26.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	27.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	28.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	30 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	31.2 A
at inside-delta circuit minimum	13 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	17 W
• at 50 °C after startup	17 W
• at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	070 14
• at 40 °C during startup	276 W
at 50 °C during startup	241 W
at 60 °C during startup	200 W
Control circuit/ Control	

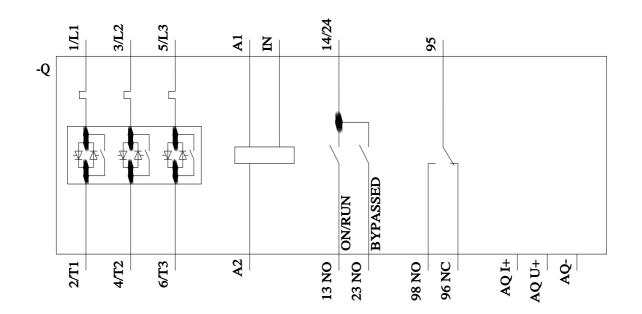
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz	110 250 V		
• at 60 Hz	110 250 V		
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %		
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %		
relative negative 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	12.2 A		
maximum			
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			
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	1 A		
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on		
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		
• 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		
<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 <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</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		
<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 <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> </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		
<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 <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> </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		
<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 <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> </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		
<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 <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>	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		
<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 <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>at the side</li> <li>weight without packaging</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		
<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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals	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		
<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 <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>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface 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> </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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>275 mm</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> </ul> 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 mounting position 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> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul>	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface 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> </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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> </ul>	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>275 mm</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> </ul> 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 mounting position 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>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for control circuit</li> <li>for connectable conductor cross-sections</li> <li>for main contacts</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 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 mounting position 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>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <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 screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 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 <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 type of electrical connection <ul> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid</li> <li>formain 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 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>screw-type 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> </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 <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 type of electrical connection <ul> <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> <li>at AWG cables for main current circuit 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 screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 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 <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 type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>of main current circuit solid</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 100 mm 0 mm 100 mm 25 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8)		
<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 <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 type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for main current circuit 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         10 mm         0 mm         100 mm         75 mm         5 mm         2.1 kg         screw-type terminals         screw-type terminals         screw-type 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 (0.5 2.5 mm²)         1x (0.5 4.0 mm²), 2x (0.5 2.5 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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>at AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</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 100 mm 0 mm 100 mm 25 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8)		
<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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>at AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>at AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit solid</li> <li>for control circuit solid</li> <li>for control circuit 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         screw-type terminals         screw-type 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 (16 12), 2x (14 8)         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 2.5 mm²), 2x (0.5 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 <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> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</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         10 mm         0 mm         100 mm         75 mm         5 mm         2.1 kg         screw-type terminals         screw-type terminals         screw-type 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 (0.5 2.5 mm²)         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		

between soft starter and motor maximum	800 m		
at the digital inputs at AC maximum	100 m		
<ul> <li>tightening torque</li> <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 terminals</li> </ul>	7 10.3 lbf <sup>.</sup> 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		
<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		
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
<ul> <li>communication module is supported</li> <li>PROFINET standard</li> </ul>	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> </ul>			
— usable for Standard Faults at 460/480 V according to UL	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </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. 60 A or 3VA51, max. 60 A; lq = 5 kA		
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 35 A; lq max = 65 kA		
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 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. 60 A or 3VA51, max. 60 A; lq = 5 kA		
<ul> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Type: Class RK5 / K5, max. 70 A; Iq = 5 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 70 A; lq = 100 kA		
	Type: Class RK5 / K5, max. 70 A; Iq = 5 kA		
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 70 A; lq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	3 hp		
• at 220/230 V at 50 °C rated value	5 hp		
• at 460/480 V at 50 °C rated value	10 hp		
• at 575/600 V at 50 °C rated value	10 hp		
at 200/208 V at inside-delta circuit at 50 °C rated value	7.5 hp		
at 220/230 V at inside-delta circuit at 50 °C rated value	7.5 hp		
at 460/480 V at inside-delta circuit at 50 °C rated value	20 hp		
<ul> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> </ul>	25 hp		

contact rating of auxiliary contacts according to UL		R300-B300					
Safety related data							
protection class IP on the front according to IEC 60529		g to IEC	IP20				
	the front according to	o IEC 60529	finger-safe, for vertical co	ntact from the front			
electromagnetic cor	npatibility		in accordance with IEC 6	0947-4-2			
Certificates/ approvals							
General Product Ap	proval				EMC		
(SP)	CCC	<u>Confirmation</u>		EHC	RCM		
Declaration of Conf	ormity	Test Certificat	es Marine / Shipping	9			
UK CA	CE EG-Konf.	<u>Type Test Cert</u> ates/Test Rep		BUREAU VERITAS	Lloyd's Register urs		
Marine / Shipping	other						
PRS	<u>Confirmation</u>						
Further information							
	wnloadcenter (Catalo	gs, Brochures,	)				
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