## SIEMENS

## Data sheet

## 3RW5246-2AC15



SIRIUS soft starter 200-600 V 370 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>3VA2440-7MN32-0AA0;</u> Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2440-7MN32-0AA0;</u> Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3VA2580-6HN32-0AA0;</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>3VA2580-6HN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; 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>3NE1334-2;</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>3NE3336;</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
• is supported HMI-Standard	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	

e · · · · ·	400
• for main current circuit	100 ms
• for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<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
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
<ul> <li>inside-delta circuit</li> </ul>	Yes
auto-RESET	Yes
<ul> <li>manual RESET</li> </ul>	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
• BBOElenergy	Yes; in connection with the PROFINET Standard communication
PROFlenergy	module
PROFienergy     irmware update	module Yes
• firmware update	Yes
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes Yes
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes No
firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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 40 °C rated value</li> <li>at 40 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 40 °C rated value</li> <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>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °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 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °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> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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>operational current at inside-delta circuit</li> <li>at 60 °C rated value</li> </ul> operating voltage <ul> <li>at inside-delta circuit rated value</li> <li>at inside-delta circuit rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V -15 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V 10 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> Inside-delta circuit rated value <ul> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V -15 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V 10 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at inside-delta circuit rated value</li> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V -15 % 10 % -15 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °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> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>operating power for 3-phase motors</li> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V 115 % 10 % -15 %
<ul> <li>firmware update <ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> </li> <li>Power Electronics <ul> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °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 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>relative positive tolerance of the operating voltage at inside-delta circuit</li> </ul></li></ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V 115 % 10 % -15 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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 50 °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 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 inside-delta circuit</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>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 20 °C rated value</li> <li>at 30 °C rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage 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>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>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %
<ul> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <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 50 °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 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 inside-delta circuit</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>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 370 A 328 A 300 A 641 A 568 A 519 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %

• at 500 V at inside-delta circuit at 40 °C rated value	450 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 adjustable motor current	10 %
adjustable motor current     or at rotary coding switch on switch position 1	160 A
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	174 A
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	188 A
	202 A
at rotary coding switch on switch position 4	202 A 216 A
<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> </ul>	230 A
, , , , , , , , , , , , , , , , , , , ,	244 A
<ul> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> </ul>	258 A
<ul> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 9</li> </ul>	272 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 10</li> </ul>	286 A
at rotary coding switch on switch position 10	300 A
at rotary coding switch on switch position 12	314 A
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> </ul>	328 A
<ul> <li>at rotary coding switch on switch position 13</li> <li>at rotary coding switch on switch position 14</li> </ul>	342 A
<ul> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> </ul>	356 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>at rotary coding switch on switch position 16</li> </ul>	370 A
minimum	160 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	277 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	301 A
• for inside-delta circuit at rotary coding switch on switch position 3	326 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	350 A
<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	374 A
<ul> <li>switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	398 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	423 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	447 A
• for inside-delta circuit at rotary coding switch on switch position 9	471 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	495 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	520 A
• for inside-delta circuit at rotary coding switch on switch position 12	544 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	568 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	592 A 617 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>	641 A
<ul> <li>of inside-delta circuit at rotary coung switch off switch position 16</li> <li>at inside-delta circuit minimum</li> </ul>	277 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	123 W
• at 50 °C after startup	110 W
• at 60 °C after startup	102 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	5 575 W
• at 50 °C during startup	4 706 W
• at 60 °C during startup	4 157 W

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	100 mA
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control	2.2 ms
supply voltage design of the overvoltage protection	Varistor
6	
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	
	1
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	
• at AC-15 at 250 V rated value	3 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	
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 10 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> <li>at the side</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 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>at the side</li> <li>weight without packaging</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 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>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 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	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
<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> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection
<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>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection 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 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>width of connection bar maximum</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection
<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 connection bar maximum</li> <li>type of connectable conductor cross-sections</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 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 <ul> <li>type of electrical connection</li> <li>for control circuit</li> <li>for connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 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 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>width of connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 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> weight without packaging Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (70 240 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 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>width of connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (0.25 1.5 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 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>width of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</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 finely stranded with core end</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (70 240 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 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>width of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</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 finely stranded with core end processing</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (70 240 mm <sup>2</sup> ) 2x (0.25 1.5 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 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 control circuit</li> <li>for control circuit</li> <li>of or DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>at AWG cables for control circuit solid</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16)
<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>width of connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>at AWG cables for control circuit solid</li> <li>at AWG cables for control circuit finely stranded with</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (70 240 mm <sup>2</sup> ) 2x (0.25 1.5 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 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 control circuit</li> <li>for control circuit</li> <li>of or DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>at AWG cables for control circuit solid</li> </ul>	1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm 10 mm 0 mm 10 mm 75 mm 5 mm 9.9 kg busbar connection spring-loaded terminals 45 mm 2x (50 240 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> ) 2x (24 16)

<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>	14 24 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>	124 210 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
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
during operation according to IEC 60721	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
<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	
<ul> <li>PROFINET standard</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse	
usable for Standard Faults up to 575/600 V	Type: Class J / L, max. 1200 A; Iq = 18 kA
according to UL	Type. Class 37 L, Illax. 1200 A, Iq = 10 KA
— usable for High Faults up to 575/600 V	Type: Class J / L, max. 1200 A; Iq = 100 kA
according to UL	
— usable for Standard Faults at inside-delta	Type: Class J / L, max. 1200 A; Ig = 18 kA
circuit up to 575/600 V according to UL	Mer and the second s
<ul> <li>— usable for High Faults at inside-delta circuit up</li> </ul>	Type: Class J / L, max. 1200 A; Iq = 100 kA
to 575/600 V according to UL	
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	100 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	125 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	250 hp
at 575/600 V at 50 °C rated value	300 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> </ul>	200 hp
value	
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated</li> </ul>	200 hp
value	
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> </ul>	450 hp
value	
<ul> <li>at 575/600 V at inside-delta circuit at 50 °C rated</li> </ul>	600 hp
value	
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC	IP00; IP20 with cover
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	in accordance with IEC 60947-4-2
Certificates/ approvals	
General Product Approval	EMC

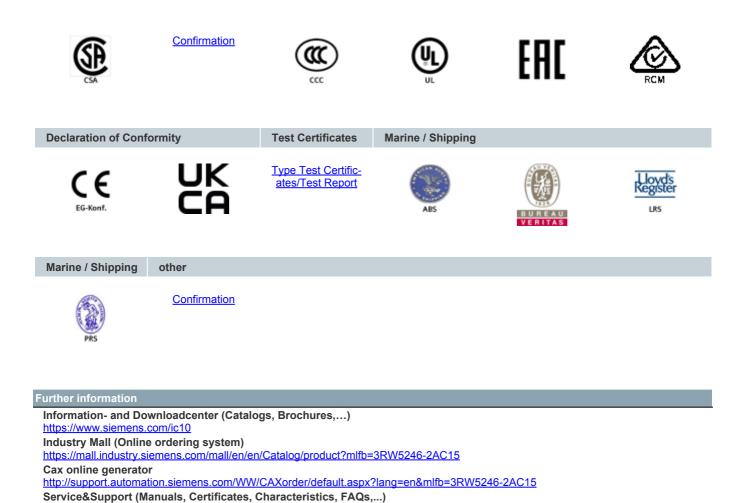


Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5246-2AC15&objecttype=14&gridview=view1

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC15

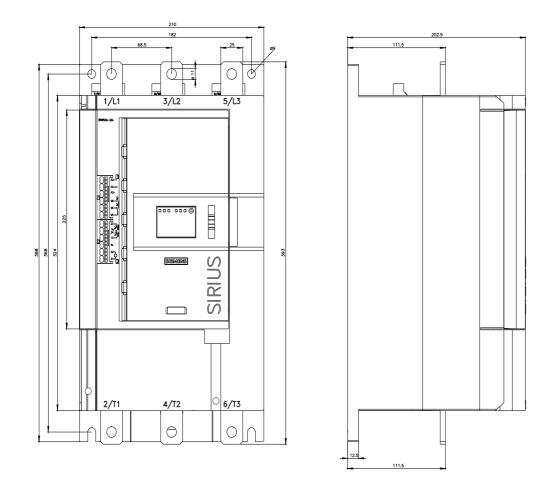
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-2AC15/char

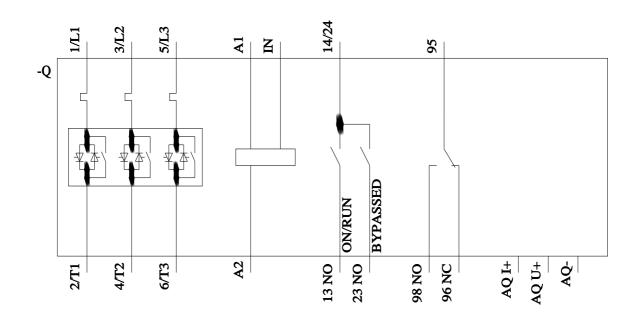
https://support.industry.siemens.com/cs/ww/en/view/101494917

Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5246-2AC15&lang=en





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