## SIEMENS

## Data sheet

## 3RW5224-1AC14



SIRIUS soft starter 200-480 V 47 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>	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10</u>
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4RA10: Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4RA10: Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3824-6: Type of coordination 1, Iq = 65 kA</u>
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1021-2: 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>3NE8024-1; 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 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	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	

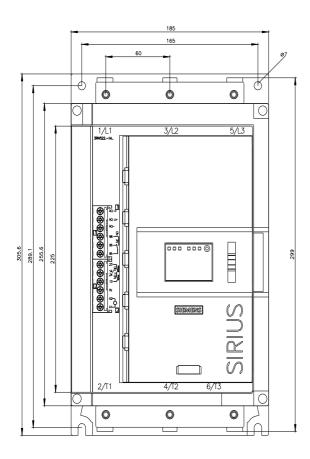
<b>.</b>				
for main current circuit	100 ms			
<ul> <li>for control circuit</li> </ul>	100 ms			
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 400 V			
service factor	1			
surge 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				
• ramp-up (soft starting)	Yes			
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes			
Soft Torque	Yes			
•	Yes			
adjustable current limitation	Yes			
pump ramp down     intrincip dovice protection				
intrinsic device protection	Yes			
motor overload protection	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			
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			
<ul> <li>error logbook</li> </ul>	Yes; Only in conjunction with special accessories			
	No			
<ul> <li>via software parameterizable</li> </ul>	110			
<ul> <li>via software parameterizable</li> <li>via software configurable</li> </ul>	Yes			
• via software configurable				
	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			
<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> </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> <li>analog output</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			
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<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 operational current <ul> <li>at 40 °C rated value</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 HMI)			
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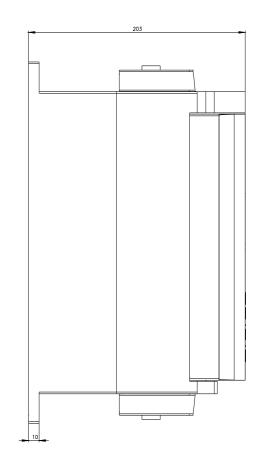
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency adjustable motor current	10 %
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	20 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	21.8 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	23.6 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	25.4 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	27.2 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	29 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	30.8 A
at rotary coding switch on switch position 8	32.6 A
at rotary coding switch on switch position 9	34.4 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	36.2 A
at rotary coding switch on switch position 11	38 A 39.8 A
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> </ul>	41.6 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	43.4 A
<ul> <li>at rotary coding switch on switch position 14</li> <li>at rotary coding switch on switch position 15</li> </ul>	45.2 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>at rotary coding switch on switch position 16</li> </ul>	47 A
minimum	20 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	34.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	37.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	40.9 A
• for inside-delta circuit at rotary coding switch on switch position 4	44 A
• for inside-delta circuit at rotary coding switch on switch position 5	47.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	50.2 A 53.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	56.5 A
<ul> <li>switch position 8</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	59.6 A
switch position 9 • for inside-delta circuit at rotary coding switch on	62.7 A
<ul><li>switch position 10</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	65.8 A
<ul> <li>switch position 11</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	68.9 A
<ul> <li>switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	72.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	75.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	78.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	81.4 A
<ul> <li>at inside-delta circuit minimum</li> </ul>	34.6 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	26 W
• at 50 °C after startup	24 W
• at 60 °C after startup	23 W
power loss [W] at AC at current limitation 350 %	606 W
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul>	606 W 522 W
• at 50 °C during startup • at 60 °C during startup	522 VV 438 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
control supply voltage at AO	

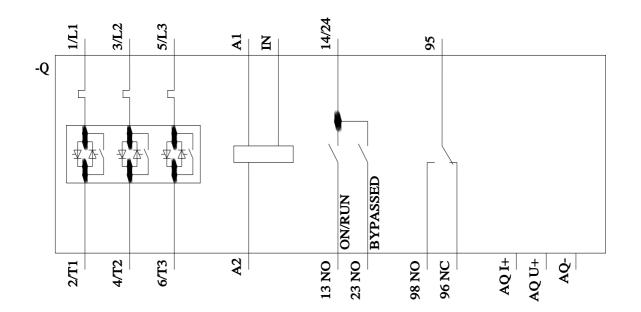
● at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
control supply voltage frequency	50 60 Hz			
	-10 %			
relative negative tolerance of the control supply voltage frequency				
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	30 mA			
holding current in bypass operation rated value	75 mA			
locked-rotor current at close of bypass contact maximum	2.5 A			
inrush current peak at application of control supply voltage maximum	12.2 A			
duration of inrush current peak at application of control supply voltage	2.2 ms			
design of the overvoltage protection	Varistor			
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature			
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply			
Inputs/ Outputs				
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				
	2 4			
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	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 DC-13 at 24 V rated value				
at DC-13 at 24 V rated value Installation/ mounting/ dimensions	1 A			
• at DC-13 at 24 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			
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 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 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 306 mm			
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 306 mm 185 mm			
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 306 mm 185 mm			
• 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 306 mm 185 mm 203 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <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> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm			
<ul> <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 306 mm 185 mm 203 mm 10 mm 0 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 10 mm 100 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </ul> </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 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 5 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>type of electrical connection</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>306 mm</li> <li>185 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>100 mm</li> <li>75 mm</li> <li>5 mm</li> <li>5.2 kg</li> </ul>			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for main current circuit</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 100 mm 75 mm 5 mm 5.2 kg box terminal			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connection bar maximum</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 100 mm 75 mm 5 mm 5.2 kg box terminal			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>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> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for control circuit</li> <li>for connection bar maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> )			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>Connections/ Terminals</li> <li>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 main contacts for box terminal using the front</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </ul> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>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 main contacts for box terminal using the front clamping point finely stranded with core end</li> </ul> </li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> )			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for control circuit</li> <li>width of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front</li> </ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> )			
<ul> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>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> </li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>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 main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal</li> </ul></li></ul>	<ul> <li>1 A</li> <li>+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing</li> <li>306 mm</li> <li>306 mm</li> <li>203 mm</li> <li>203 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>10 mm</li> <li>5 mm</li> <li>5.2 kg</li> </ul> box terminal screw-type terminals 25 mm 1x (2.5 16 mm <sup>2</sup> ) 1x (2.5 50 mm <sup>2</sup> ) 1x (10 70 mm <sup>2</sup> )			

at AWG cables for main contacts for box terminal	1x (10 2/0)		
<ul><li>using the back clamping point</li><li>for main contacts for box terminal using both</li></ul>	2x (2.5 16 mm²)		
clamping points solid			
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)		
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)		
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end</li> </ul>	1x (2.5 50 mm²)		
<ul> <li>processing</li> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)		
type of connectable conductor cross-sections			
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )		
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)		
wire length	(20 12), 2X (20 14)		
6	800 m		
<ul> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> </ul>	800 m		
at the digital inputs at AC maximum	100 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in		
terminals			
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or		
	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		
<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		
	acc. 10 IEC 00947-4-2. 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			
<ul><li>manufacturer's article number</li><li>of circuit breaker</li></ul>			
<ul> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul> </li> </ul>			
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at</li> </ul> </li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA		

according to UL — usable for High Faults u according to UL					
0	p to 575/600 V	Type: Class J / L, max. 1	75 A; lq = 100 kA		
	ding to UL able for Standard Faults at inside-delta : up to 575/600 V according to UL		Type: Class RK5 / K5, max. 175 A; lq = 5 kA		
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>		Type: Class J / L, max. 175 A; lq = 100 kA			
operating power [hp] for 3-phase	motors				
• at 200/208 V at 50 °C rated v		10 hp			
• at 220/230 V at 50 °C rated value		10 hp			
• at 460/480 V at 50 °C rated v	alue	30 hp			
<ul> <li>at 200/208 V at inside-delta d</li> </ul>	circuit at 50 °C rated	20 hp			
value • at 220/230 V at inside-delta c	circuit at 50 °C rated	25 hp			
value <ul> <li>at 460/480 V at inside-delta c</li> <li>value</li> </ul>	circuit at 50 °C rated	50 hp			
contact rating of auxiliary contact	ts according to III	R300-B300			
Safety related data		1000 2000			
protection class IP on the front a 60529	ccording to IEC	IP00; IP20 with cover			
touch protection on the front acc electromagnetic compatibility	ording to IEC 60529	finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2		cover	
Certificates/ approvals					
General Product Approval				EMC	
	Confirmation			A	
(5) (00	)	(ŲL)	FHI		
			LIIL	RCM	
Declaration of Conformity	Test Certifica	ates Marine / Shipping	9		
	Type Test Ce		A SA	Lloyde	
	ates/Test Re	port	( 1) ( 1)	Register	
EG-Kon	ıf.	ABS	RIL REAL	LRS	
			VERITAS		
Marine / Shipping	other				
	•••••				
A second	Confirmatio	<u>on</u>			
	ONV-GL				
	<b>9</b>				
PRS DIVICE					
PRS DIVICE	2				
PRS DIV-G					
Further information					
Information- and Downloadcente	r (Catalogs, Brochures,	)			
Information- and Downloadcente https://www.siemens.com/ic10		)			
Information- and Downloadcente https://www.siemens.com/ic10 Industry Mall (Online ordering sy	vstem)				
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