# **SIEMENS**

Data sheet 3RW5548-2HF14

SIRIUS



SIRIUS soft starter 200-480 V 570 A, 110-250 V AC, spring-type terminals Failsafe

Figure similar

product brand name

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Failsafe soft starters		
product type designation	3RW55		
manufacturer's article number			
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00		
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00		
• of communication module PROFINET high-feature usable	3RW5950-0CH00		
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00		
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00		
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00		
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00		
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2580-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2510-6HN32-0AA0; 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>	3NE1437-2; 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>	3NC3342-1U; Type of coordination 2, Iq = 65 kA		
Seneral technical data			
starting voltage [%]	20 100 %		
stopping voltage [%]	50 %; non-adjustable		
start-up ramp time of soft starter	0 360 s		
ramp-down time of soft starter	0 360 s		
start torque [%]	10 100 %		
stopping torque [%]	10 100 %		
torque limitation [%]	20 200 %		
current limiting value [%] adjustable	125 800 %		
breakaway voltage [%] adjustable	40 100 %		
breakaway time adjustable	0 2 s		
number of parameter sets	3		
accuracy class	5 (based on IEC 61557-12)		
certificate of suitability			
CE marking	Yes		
UL approval	Yes		
CSA approval	Yes		
product component			

HMI-High Feature	Yes		
• is supported HMI-High Feature	Yes		
product feature integrated bypass contact system	Yes		
number of controlled phases	3		
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2		
current unbalance limiting value [%]	10 60 %		
ground-fault monitoring limiting value [%]	10 95 %		
buffering time in the event of power failure	10 00 //		
• for main current circuit	100 ms		
• for control circuit	100 ms		
idle time adjustable	0 255 s		
insulation voltage rated value	480 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	1.15		
surge voltage resistance rated value	6 kV		
	U KV		
maximum permissible voltage for protective separation  • between main and auxiliary circuit	480 V: does not apply for thermietar connection		
between main and auxiliary circuit     shock resistance	480 V; does not apply for thermistor connection		
	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting		
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz		
recovery time after overload trip adjustable	60 1 800 s		
utilization category according to IEC 60947-4-2	AC 53a		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	11/22/2019		
product function			
<ul><li>ramp-up (soft starting)</li></ul>	Yes		
<ul><li>ramp-down (soft stop)</li></ul>	Yes		
breakaway pulse	Yes		
adjustable current limitation	Yes		
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes		
<ul><li>pump ramp down</li></ul>	Yes		
DC braking	Yes		
<ul><li>motor heating</li></ul>	Yes		
slave pointer function	Yes		
trace function	Yes		
intrinsic device protection	Yes		
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.		
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick		
inside-delta circuit	Yes		
• auto-RESET	Yes		
manual RESET	Yes		
• remote reset	Yes		
communication function	Yes		
operating measured value display	Yes		
• event list	Yes		
• error logbook	Yes		
via software parameterizable	Yes		
via software configurable	Yes		
screw terminal	No		
spring-loaded terminal	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules		
firmware update	Yes		
removable terminal for control circuit	Yes		
voltage ramp	Yes		
torque control	Yes		
combined braking	Yes		
analog output	Yes; 4 20 mA (default) / 0 10 V		
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* outdorsing contractions     * application wizerds     * application wizerds     * application wizerds     * alternative for undown     * corrections control mode     * corrections control mode     * corrections control mode     * corrections control wizerds     * corrections control wizerds     * corrections control wizerds     * corrections control wizerds     * corrections corrections     * corrections corrections     * corrections corrections     * corrections				
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* everating operation     * soft starting at heavy starting conditions     * Yes     * soft starting at heavy starting conditions     Yes     * soft starting at heavy starting conditions     * soft of Crated value     * at 40 °C rated value     * at 40 °C rated value     * at 60 °C rater startup     * at 60	<ul> <li>alternative run-down</li> </ul>			
** oot starting at heavy starting conditions  **Power Electronics  ** of a 0°C rated value minimum  ** at 0°C rated value minimum  ** at 0°C rated value minimum  ** at 0°C rated value  ** at 10°C rated value  ** at 23°O value roberance of the operating voltage at 10°C value positive tolerance of the operating voltage at 10°C value positive tolerance of the operating voltage at 10°C value positive tolerance of the operating voltage at 10°C value positive tolerance of the operating voltage at 10°C value positive tolerance of the operating voltage at 10°C value value  ** at 20°O value inside-delta circuit  ** at 20°O value inside-delta circuit  ** at 20°O value inside-delta circuit  ** at 20°O value inside value of 10°C rated value  ** at 20°O value inside-delta circuit  ** at 20°O value inside-delta circuit  ** at 20°O value inside value of 10°C rated value  ** at 20°O value inside value of 10°C rated value  ** at 20°O value inside-delta circuit at 0°C rated value  ** at 20°O value inside value of 10°C rated value  ** at 20°O value of 10°C value value  ** at 20°O value of 10°C value value  ** at 20°O value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value value  ** at 0°C value value of 10°C value  ** at 0°C value value of 10°C value  ** at 0°C value value  ** at 0°C value	<ul> <li>emergency operation mode</li> </ul>			
operational current  - et al °C rated value  - at 60 °C rated value  - at 230 °V at 40 °C rated value  - at 320 °V at 40 °C rated value  - at 320 °V at 40 °C rated value  - at 320 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 400 °V at 40 °C rated value  - at 60 °V a	<ul> <li>reversing operation</li> </ul>	Yes		
operational current  ** at 40 °C rated value ** at 40 °C rated value ** at 40 °C rated value ** at 60 °C rater satrup ** at 60 °C r	soft starting at heavy starting conditions	Yes		
e at 40 °C rated value minimum e at 50 °C rated value minimum e at 50 °C rated value e at 60 °C rated value e at make detail circuit rated value e at 10 °C rated value e at 10 °C rated value e at 10 °C rated value e at 200 °C rated value e at 200 °C rated value e at 40 °C rated value e at 400 °C rated value for rated value e at 400 °C rated value e at 60 °C rater startup e at 60 °C rater	Power Electronics			
e at 40 °C rated value	operational current			
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operational current at inside-delta circuit  at 40 °C rated value at 90 °C rated value at 90 °C rated value 796 A  operating voltage at rated value 200 480 V  relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 230 V at 40 °C rated value at 230 V at misde-delta circuit at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value at 400 V at misde-delta circuit at 40 °C rated value at 400 V at misde-delta circuit at 40 °C rated value at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at misde-delta circuit at 40 °C rated value because at 400 V at 400	• at 50 °C rated value	504 A		
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at 60 °C rated value at 60 °C rated value at 60 °C rated value at 160 °C after startup at 60 °C after startup at 60 °C during startup bypoor to supply voltage at 60 °C after startup at 60 °C during startup bypoor the motor protection control supply voltage at 60 °C after startup at 60 °C after startu	operational current at inside-delta circuit			
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operating voltage  • rated value  • at inside-detal circuit rated value  200 480 V  200 480 V  relative negative tolerance of the operating voltage  relative positive tolerance of the operating voltage  10 %  relative positive tolerance of the operating voltage at inside-deta circuit  relative positive tolerance of the operating voltage at inside-deta circuit  relative positive tolerance of the operating voltage at inside-deta circuit  10 %  relative positive tolerance of the operating voltage at inside-deta circuit  21 00 via the original voltage at inside-detal circuit at 40 °C rated value  22 00 via the original voltage of the operating voltage at inside-detal circuit at 40 °C rated value  23 00 via the original voltage of the operating feed value  24 00 via the original voltage of the operating feed value  25 00 kW  26 00 perating frequency 1 rated value  27 00 via the operating frequency  28 00 via	• at 50 °C rated value	873 A		
e rated value     e at inside-delta circuit rated value     relative positive tolerance of the operating voltage     relative positive tolerance of the operating voltage at maide-delta circuit     relative positive tolerance of the operating voltage at maide-delta circuit     relative positive tolerance of the operating voltage at maide-delta circuit     operating power for 3-phase motors	• at 60 °C rated value	796 A		
* rated value     * at inside-delta circuit rated value     * at inside-delta circuit rated value     * at inside-delta circuit     * relative positive tolerance of the operating voltage     * relative negative tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * relative positive tolerance of the operating voltage at     * at 200 V at 40 °C rated value     * at 400 V at 40 °C rated value     * at 400 V at thind-delta circuit at 40 °C rated value     * at 400 V at thind-delta circuit at 40 °C rated value     * operating frequency 1 rated value     * Operating frequency 2 rated value     * Operating frequency 2 rated value     * Operating frequency 3 rated value     * operating frequency 4 rated value     * operating frequency 5 rated value     * operating frequency 6 the operating frequency     * operating frequency 6 the operating frequency     * operating frequency 7 rated value     * operating frequency 10 %     * relative positive tolerance of the operating frequency     * operating frequency 10 %     * relative positive tolerance of the operating frequency     * of the caffer startup     * of the	operating voltage			
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative negative tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors  • at 230 V at 10 °C rated value • at 230 V at 100 °C rated value • at 230 V at 100 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value  • at 400 V at inside-delta circuit at 40 °C rated value  • at 400 V at inside-delta circuit at 40 °C rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency at 60 °C after startup • at 60 °C during startup  very enough of the control supply voltage control supply voltage at AC • at 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage requency relative negative tolerance of the control supply voltage requency relative negative tolerance of the control supply voltage requency relative negative tolerance of the control supply voltage requency		200 480 V		
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative negative tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 0 °C rated value • at 230 V at 10 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency at 60 °C after startup • at 60 °C during	at inside-delta circuit rated value			
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relative negative tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors  • at 230 V at 140 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency  10 %  Relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive		10 %		
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 140 °C rated value • at 400 V at 140 °C rated value • at 400 V at 140 °C rated value • at 400 V at 140 °C rated value • at 400 V at 140 °C rated value • 560 kW  Operating frequency 1 rated value Operating frequency 1 rated value Operating frequency 2 rated value Operating frequency 2 rated value Operating frequency 1 rated value Operating frequency 10 %  relative positive tolerance of the current at AC  • at 40 °C after startup 151 W • at 60 °C after startup 141 W  power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 60 °C during startup  • at 60 °C during startup • at 60 °C during startup • at 60 °C during startup  • at 60 °C durin				
inside-deta circuit operating power for 3-phase motors  • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at 1 misde-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  Operating frequency 3 10 %  relative negative tolerance of the operating frequency  In 10 %  relative positive tolerance of the operating frequency  In 10 %; Relative to set le  Operating frequency 10 %  In 11 W  In 12 M  In 12 M  In 14 W  In 15 W  In 16 C after startup  In 16 C after startup  In 17 W  In 18 C after startup  In 19 C after startup  In 10 C after startup  In	inside-delta circuit			
a 1 230 V at 10 °C rated value at 230 V at 10 °C rated value 315 kW 316 kW 316 kW 317 kW 317 kW 317 kW 317 kW 318				
at 230 V at Inside-delta circuit at 40 °C rated value at 400 V at 140 °C rated value 315 kW  at 400 V at 140 °C rated value Operating frequency 1 rated value Operating frequency 1 rated value Operating frequency 2 rated value Operating frequency 40 %  relative positive tolerance of the operating frequency minimum load [%] 10 %; Relative to set le  power loss [W] for rated value of the current at AC  at 40 °C after startup 171 W  at 60 °C after startup 141 W  power loss [W] at AC at current limitation 350 %  at 40 °C during startup 10 229 W  at 60 °C during startup 10 229 W  at 60 °C during startup 7 651 W  type of the motor protection Electronic, tripping in the event of thermal overload of the motor  Control circuit// Control  type of voltage of the control supply voltage control supply voltage at AC  at 50 Hz 110 250 V  relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz				
at 400 V at inside-delta circuit at 40 °C rated value  at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Operating frequency 2 rated value  felative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  relative positive tolerance of the operating frequency  minimum load [%]  power loss [W] for rated value of the current at AC  at 40 °C after startup  at 50 °C after startup  at 60 °C after startup  be at 60 °C during startup  be at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  rothory supply voltage frequency  50 60 Hz  relative negative tolerance of the control supply voltage frequency  rothory supply voltage frequency  50 60 Hz	<ul> <li>at 230 V at 40 °C rated value</li> </ul>	160 kW		
• at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  Felative negative tolerance of the operating frequency  relative positive tolerance of the operating frequency  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  • at 60 °C after startup  • at 40 °C during startup  • at 50 °C during startup  • at 50 °C during startup  • at 60 °C d		315 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 % minimum load [%] 10 %; Relative to set le  power loss [W] for rated value of the current at AC  • at 40 °C after startup 151 W • at 50 °C after startup 151 W  • at 60 °C after startup 141 W  power loss [W] at AC at current limitation 350 % • at 40 °C during startup 8 488 W • at 60 °C during startup 8 488 W • at 60 °C during startup 8 488 W • at 60 °C during startup 9 Electronic, tripping in the event of thermal overload of the motor Control circuit/ Control  type of the motor protection Electronic, tripping in the event of thermal overload of the motor Control supply voltage at AC at 50 Hz 110 250 V  relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz	• at 400 V at 40 °C rated value	315 kW		
Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency relative positive tolerance of the operating frequency 10 % minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 60 °C after startup • at 60 °C after startup  power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup • at 60 °C during startup • at 60 °C during startup  **To 55 W  **To 50 Hz  **To 60 Hz	at 400 V at inside-delta circuit at 40 °C rated value	560 kW		
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  at 40 °C after startup  at 50 °C after startup  at 40 °C after startup  at 50 °C after startup  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  AC  at 50 °C during startup  at 60 °C during startup  AC  at 50 Hz  at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 60 Hz  at 60 Hz  arelative positive tolerance of the control supply voltage at AC at 50 Hz  arelative negative tolerance of the control supply voltage at AC at 60 Hz  are lative positive tolerance of the control supply voltage at AC at 60 Hz  are lative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  are lative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  are lative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  are lative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage  are lative positive tolerance of the control supply voltage	Operating frequency 1 rated value	50 Hz		
relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup • at 50 °C after startup • at 60 °C during startup • at 50 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup  Type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC • at 50 Hz • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative positive tolerance of the control supply voltage	Operating frequency 2 rated value	60 Hz		
minimum load [%]  power loss [W] for rated value of the current at AC  at 40 °C after startup  at 50 °C after startup  at 60 °C after startup  tat 60 °C after startup  at 60 °C after startup  at 60 °C after startup  at 60 °C during startup  at 50 °C during startup  at 60 °C during startup  be at 50 °C during startup  at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  type of the motor protection  control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative positive tolerance of the control supply voltage	relative negative tolerance of the operating frequency	-10 %		
power loss [W] for rated value of the current at AC  at 40 °C after startup  at 50 °C after startup  at 60 °C after startup  at 40 °C after startup  be at 60 °C after startup  at 40 °C during startup  at 40 °C during startup  at 50 °C during startup  at 50 °C during startup  at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during startup  be at 60 °C during startup  at 60 °C during	relative positive tolerance of the operating frequency	10 %		
at 40 °C after startup at 50 °C after startup 151 W at 60 °C after startup 141 W  power loss [W] at AC at current limitation 350 % at 40 °C during startup 10 229 W at 50 °C during startup 3 8 488 W at 60 °C during startup 5 651 W  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage	minimum load [%]	10 %; Relative to set le		
at 50 °C after startup at 60 °C after startup  tule at 60 °C after startup  at 60 °C after startup  at 40 °C during startup at 50 °C during startup at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  type of the motor protection  control circuit/ Control  type of voltage of the control supply voltage at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	power loss [W] for rated value of the current at AC			
at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  at 60 °C during startup  at 60 °C during startup  by eart 50 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	• at 40 °C after startup	171 W		
power loss [W] at AC at current limitation 350 %  • at 40 °C during startup • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage • at 50 Hz • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz	• at 50 °C after startup	151 W		
at 40 °C during startup at 50 °C during startup at 60 °C during startup  type of the motor protection  Electronic, tripping in the event of thermal overload of the motor  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage  10 %	at 60 °C after startup	141 W		
at 50 °C during startup at 60 °C during startup  type of the motor protection  Electronic, tripping in the event of thermal overload of the motor  control circuit/ Control  type of voltage of the control supply voltage  type of voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	power loss [W] at AC at current limitation 350 %			
• at 60 °C during startup  type of the motor protection  Electronic, tripping in the event of thermal overload of the motor  Control circuit/ Control  type of voltage of the control supply voltage  e at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %	• at 40 °C during startup	10 229 W		
type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  • at 50 Hz  • at 60 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	• at 50 °C during startup	8 488 W		
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	• at 60 °C during startup	7 651 W		
type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  frequency  relative positive tolerance of the control supply voltage  frequency  relative positive tolerance of the control supply voltage  frequency  relative positive tolerance of the control supply voltage  frequency  relative positive tolerance of the control supply voltage  frequency  relative positive tolerance of the control supply voltage  10 %	type of the motor protection	Electronic, tripping in the event of thermal overload of the motor		
control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %	Control circuit/ Control			
control supply voltage at AC  • at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %	type of voltage of the control supply voltage	AC		
• at 50 Hz  • at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  frequency  10 %				
● at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  10 %		110 250 V		
relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  10 %	● at 60 Hz			
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relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %	relative positive tolerance of the control supply voltage at	10 %		
relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %  10 %  10 %	relative negative tolerance of the control supply voltage at	-15 %		
control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %	relative positive tolerance of the control supply voltage at	10 %		
relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage  10 %		50 60 Hz		
relative positive tolerance of the control supply voltage 10 %	relative negative tolerance of the control supply voltage			
nequency	· · ·	10 %		

control supply current in standby mode rated value	100 mA		
holding current in bypass operation rated value	150 mA		
inrush current by closing the bypass contacts maximum	0.87 A		
inrush current peak at application of control supply voltage maximum	43 A		
duration of inrush current peak at application of control supply voltage	1.6 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	4		
with fail-safe	1		
parameterizable	4		
number of digital outputs	3		
Number of digital outputs with fail-safe	1		
number of digital outputs parameterizable	2		
number of digital outputs parameterizable     number of digital outputs not parameterizable	1		
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover		
aigitai output version	contact (CO)		
number of analog outputs	1		
switching capacity current of the relay outputs			
• at AC-15 at 250 V rated value	3 A		
• at DC-13 at 24 V rated value	1 A		
Response times			
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms		
Installation/ mounting/ dimensions			
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)		
fastening method	screw fixing		
height	393 mm		
width	210 mm		
depth	203 mm		
required spacing with side-by-side mounting			
• forwards	10 mm		
• backwards	0 mm		
• upwards	100 mm		
<ul><li>downwards</li></ul>	75 mm		
at the side	5 mm		
weight without packaging	10.9 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	busbar connection		
for control circuit	spring-loaded terminals		
width of connection bar maximum	45 mm		
wire length for thermistor connection			
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m		
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m		
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m		
type of connectable conductor cross-sections			
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)		
• for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)		
type of connectable conductor cross-sections			
• for control circuit solid	2x (0.25 1.5 mm²)		
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)		
for AWG cables for control circuit solid	2x (24 16)		
• for AWG cables for control circuit finely stranded with	2x (24 16)		
core end processing wire length			
between soft starter and motor maximum	800 m		
at the digital inputs at DC maximum	1 000 m		

tightening torque			
• for main contacts with screw-type terminals	14 24 N·m		
for auxiliary and control contacts with screw-type terminals	0.8 1.2 N·m		
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 terminals</li> </ul>	7 10.3 lbf-in		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during storage and transport	-40 +80 °C		
environmental category			
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
during storage according to IEC 60721	(sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 4M4		
a during transport according to IEC 60721	inside the devices), 1M4		
during transport according to IEC 60721  EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A		
Communication/ Protocol	aud. to IEO 00347-4-2. Olass M		
communication module is supported			
PROFINET standard	Yes		
PROFINET standard     PROFINET high-feature	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
• PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
of the fuse			
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1600 A; Iq = 30 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA		
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1600 A; Iq = 30 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. 1200 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	150 hp		
• at 220/230 V at 50 °C rated value	200 hp		
• at 460/480 V at 50 °C rated value	400 hp		
at 200/208 V at inside-delta circuit at 50 °C rated value	300 hp		
at 220/230 V at inside-delta circuit at 50 °C rated value	350 hp		
at 460/480 V at inside-delta circuit at 50 °C rated value	750 hp		
contact rating of auxiliary contacts according to UL	R300-B300		
Safety related data	Time D		
safety device type according to IEC 61508-2	Type B		
B10d value	648 000		
Safety Integrity Level (SIL)	SIL1		
according to IEC 61508  SIL Claim Limit (subsystem) according to EN 62061			
SIL Claim Limit (subsystem) according to EN 62061  performance level (PL) according to EN ISO 13849-1	SIL 1		
category according to EN ISO 13849-1	2		
stop category according to EN 60204-1	0		
Safe failure fraction (SFF)	60 %		
average diagnostic coverage level (DCavg)	90 %		
diagnostics test interval by internal test function maximum	1 000 s		
PFHD with high demand rate according to EN 62061	1E-6 1/h		
PFDavg with low demand rate according to IEC 61508	0.09		
hardware fault tolerance according to IEC 61508	0		
T1 value for proof test interval or service life according to IEC	20 a		
<del>`</del>			

61508			
safe state	Open load circuit		
protection class IP on the front according to IEC 60529	IP00; IP20 with cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover		
electromagnetic compatibility	acc. to IEC 60947-4-2		
ATEX			
certificate of suitability			
• ATEX	Yes		
• IECEx	Yes		
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X		
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]		
hardware fault tolerance according to IEC 61508 relating to ATEX	0		
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008		
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h		
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1		
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a		
Contification   communication			

Certificates/ approvals

#### **General Product Approval**





Confirmation







**Declaration of Con-EMC** For use in hazardous locations **Test Certificates** Marine / Shipping formity









Type Test Certificates/Test Report



Marine / Shipping







Confirmation

other

#### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

### Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5548-2HF14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5548-2HF14}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5548-2HF14

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

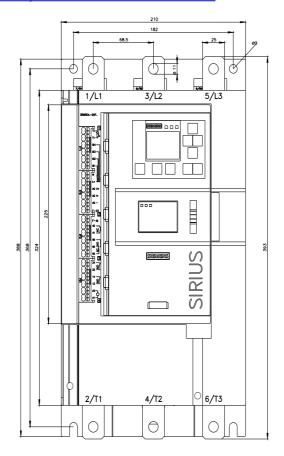
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5548-2HF14&lang=en

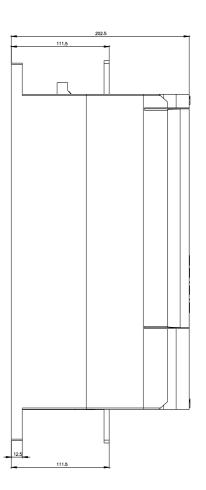
Characteristic: Tripping characteristics, I2t, Let-through current

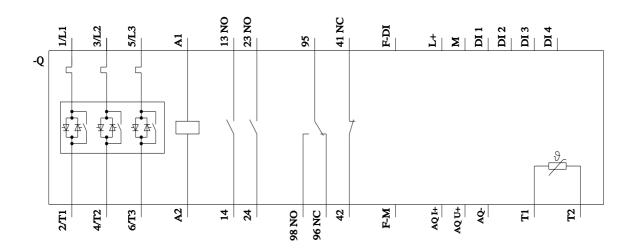
https://support.industry.siemens.com/cs/ww/en/ps/3RW5548-2HF14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5548-2HF14&objecttype=14&gridview=view1







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