## SIEMENS

## Data sheet

## 3RW5525-1HA06



SIRIUS soft starter 200-690 V 63 A, 24 V AC/DC Screw terminals

product brand name	SIRIUS	
product category	Hybrid switching devices	
product designation	Soft starter	
product type designation	3RW55	
manufacturer's article number		
<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 PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</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>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2163-7MN32-0AA0; Type of coordination 1, lq = 20 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10	
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3830-6; Type of coordination 1, Iq = 65 kA	
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3830-6; 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>3NE1022-0; Type of coordination 2, Iq = 65 kA</u>	
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3227: Type of coordination 2, Iq = 65 kA</u>	
eneral technical data		
starting voltage [%]	20 100 %	
stopping voltage [%]	50 50 %	
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 acc. to IEC 61557-12	5 %	
certificate of suitability		
CE marking	Yes	
<ul> <li>UL approval</li> </ul>	Yes	
CSA approval	Yes	
product component		
HMI-High Feature	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 / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2	
current unbalance limiting value [%]	10 60 %	
ground-fault monitoring limiting value [%]	10 95 %	
recovery time after overload trip adjustable	60 1 800 s	
buffering time in the event of power failure		
<ul> <li>for main current circuit</li> </ul>	100 ms	
for control circuit	100 ms	
idle time adjustable	0 255 s	
insulation voltage rated value	690 V	
degree of pollution	3, acc. to IEC 60947-4-2	
impulse voltage rated value	8 kV	
blocking voltage of the thyristor maximum	1 800 V	
service factor	1.15	
surge voltage resistance rated value	8 kV	
maximum permissible voltage for safe isolation		
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V; does not apply for thermistor connection	
utilization category acc. to IEC 60947-4-2	AC 53a	
shock resistance	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	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	Q 15.02.2018 00:00:00	
Substance Prohibitance (Date) product function	15.02.2018 00:00:00	
Substance Prohibitance (Date) product function • ramp-up (soft starting)	15.02.2018 00:00:00 Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	15.02.2018 00:00:00 Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	15.02.2018 00:00:00 Yes Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	15.02.2018 00:00:00 Yes Yes Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation	15.02.2018 00:00:00 Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • manual RESET	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • manual RESET         • remote reset	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • remote reset         • communication function	15.02.2018 00:00:00Yes, Full motor protection (thermistor motor protection and electronic motor overload protection)Yes; Type A PTC or Klixon / ThermoclickYes; Only up to 600 V operating voltageYesYesYesYesYesYes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display	15.02.2018 00:00:00         Yes         Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list	15.02.2018 00:00:00         Yes         Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook	15.02.2018 00:00:00         Yes         Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • notor overload protection         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook         • via software parameterizable	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • inside-delta circuit         • auto-RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook         • via software parameterizable         • via software configurable	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	
Substance Prohibitance (Date)         product function         • ramp-up (soft starting)         • ramp-down (soft stop)         • breakaway pulse         • adjustable current limitation         • creep speed in both directions of rotation         • pump ramp down         • DC braking         • motor heating         • slave pointer function         • trace function         • intrinsic device protection         • motor overload protection         • notor overload protection         • auto-RESET         • manual RESET         • remote reset         • communication function         • operating measured value display         • event list         • error logbook         • via software parameterizable         • via software configurable	15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes	

	Feature communication modules	
firmware update	Yes	
removable terminal for control circuit	Yes	
• voltage ramp	Yes	
• torque control	Yes	
combined braking	Yes	
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V	
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes	
condition monitoring	Yes	
<ul> <li>automatic parameterisation</li> </ul>	Yes	
<ul> <li>application wizards</li> </ul>	Yes	
<ul> <li>alternative run-down</li> </ul>	Yes	
<ul> <li>emergency operation mode</li> </ul>	Yes	
<ul> <li>reversing operation</li> </ul>	Yes	
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes	
Power Electronics		
operational current		
• at 40 °C rated value	63 A	
<ul> <li>at 40 °C rated value minimum</li> </ul>	13 A	
● at 50 °C rated value	55.5 A	
• at 60 °C rated value	50.5 A	
operational current at inside-delta circuit		
• at 40 °C rated value	109 A	
• at 50 °C rated value	96 A	
at 60 °C rated value	87.5 A	
operating voltage		
rated value	200 690 V	
at inside-delta circuit rated value	200 600 V	
relative negative tolerance of the operating voltage	-15 %	
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	10 % -15 %	
inside-delta circuit	-13 /0	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %	
operating power for 3-phase motors		
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	18.5 kW	
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW	
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	30 kW	
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW	
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	37 kW	
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW	
<ul> <li>at 690 V at 40 °C rated value</li> </ul>		
	55 kW	
Operating frequency 1 rated value	50 Hz	
Operating frequency 1 rated value Operating frequency 2 rated value	50 Hz 60 Hz	
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	50 Hz 60 Hz -10 %	
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	50 Hz 60 Hz -10 % 10 %	
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	50 Hz 60 Hz -10 %	
Operating frequency 1 rated value Operating frequency 2 rated value 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	50 Hz 60 Hz -10 % 10 % Relative to set le	
Operating frequency 1 rated value Operating frequency 2 rated value 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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W	
Operating frequency 1 rated value Operating frequency 2 rated value 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	50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W	
Operating frequency 1 rated value         Operating frequency 2 rated value         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 60 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W	
Operating frequency 1 rated value         Operating frequency 2 rated value         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 60 °C after startup         • at 60 °C after startup         • at 60 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W	
Operating frequency 1 rated value         Operating frequency 2 rated value         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 60 °C after startup         • at 40 °C dafter startup         • at 60 °C after startup         • at 40 °C dafter startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W	
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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 40 °C during startup• at 40 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W	
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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 40 °C during startup• at 40 °C during startup• at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W	
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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 40 °C during startup• at 40 °C during startup• at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W	
Operating frequency 1 rated value         Operating frequency 2 rated value         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 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W	
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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 40 °C during startup• at 40 °C during startup• at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W Electronic, tripping in the event of thermal overload of the motor	

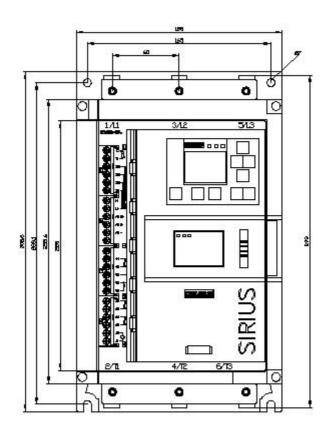
• at 50 Hz rated value	24 V	
at 60 Hz rated value	24 V	
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %	
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %	
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %	
control supply voltage frequency	50 60 Hz	
relative negative tolerance of the control supply voltage frequency	-10 %	
relative positive tolerance of the control supply voltage frequency	10 %	
control supply voltage		
at DC rated value	24 V	
relative negative tolerance of the control supply voltage at DC	-20 %	
relative positive tolerance of the control supply voltage at DC	20 %	
control supply current in standby mode rated value	440 mA	
holding current in bypass operation rated value	870 mA	
locked-rotor current at close of bypass contact maximum	6.3 A	
inrush current peak at application of control supply voltage maximum	7.5 A	
duration of inrush current peak at application of control supply voltage	20 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		
Inputs/ Outputs number of digital inputs	4	
	4 4	
number of digital inputs		
<ul><li>number of digital inputs</li><li>parameterizable</li></ul>	4	
number of digital inputs <ul> <li>parameterizable</li> </ul> number of inputs for thermistor connection	4 1; Type A PTC or Klixon / Thermoclick	
number of digital inputs <ul> <li>parameterizable</li> </ul> <li>number of inputs for thermistor connection <ul> <li>number of digital outputs</li> </ul> </li>	4 1; Type A PTC or Klixon / Thermoclick 4	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO)	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs	4 1; Type A PTC or Klixon / Thermoclick 4 3 1	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm	
number of digital inputs         • parameterizable         number of inputs for thermistor connection         • number of digital outputs         • number of digital outputs parameterizable         • number of digital outputs not parameterizable         • number of digital outputs not parameterizable         digital output version         number of analog outputs         switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	4 1; Type A PTC or Klixon / Thermoclick 4 3 1 3 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm	
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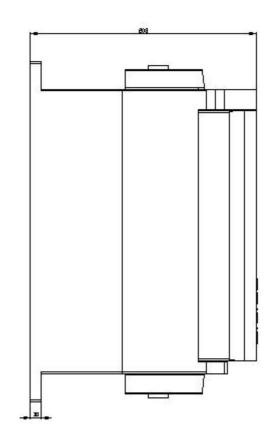
for control circuit	screw-type terminals	
width of connection bar maximum	25 mm	
wire length for thermistor connection		
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m	
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m	
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m	
type of connectable conductor cross-sections		
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)	
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)	
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)	
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)	
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)	
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)	
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)	
<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 processing</li> </ul>	1x (2.5 50 mm²)	
<ul> <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 mm²), 2x (0.5 1.5 mm²)	
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)	
wire length		
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m	
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 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]		
for main contacts with screw-type terminals     for auxiliary and control contacts with acrow type	40 53 lbf in	
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in	
mbient 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	
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C	
environmental category		
• during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
EMC emitted interference	acc. to IEC 60947-4-2: Class A	
Communication/ Protocol		
communication module is supported		

<ul> <li>PROFINET standard</li> </ul>	Yes	
<ul> <li>PROFINET high-feature</li> </ul>	Yes	
EtherNet/IP	Yes	
Modbus RTU	Yes	
Modbus TCP	Yes	
PROFIBUS	Yes	
UL/CSA ratings		
manufacturer's article number		
of circuit breaker		
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA	
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq = 10 kA	
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA	
<ul> <li>— usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq max = 65 kA	
<ul> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq = 10 kA	
● of the fuse		
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 200 A; lq = 10 kA	
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 225 A; lq = 100 kA	
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 200 A; lq = 10 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. 225 A; Iq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	15 hp	
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	20 hp	
• at 460/480 V at 50 °C rated value	40 hp	
• at 575/600 V at 50 °C rated value	50 hp	
• at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp	
• at 220/230 V at inside-delta circuit at 50 °C rated value	30 hp	
• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp	
at 575/600 V at inside-delta circuit at 50 °C rated     value	75 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover	
touch protection on the front acc. 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	
according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU	BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db],	
2014/34/EU hardware fault tolerance acc. to IEC 61508 relating to	I (M2) [Ex db Mb] 0	
ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008	
PEHD with bigh demand rate acc. to EN 62061 relating	0.0000005 1/h	
PFHD with high demand rate acc. to EN 62061 relating	0.000000 1/11	

Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       SIL1         T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX       3 y         Certificates/ approvals         Certificates / approvals         Certificates         Certificates / approvals         Certificates / approvals         Certificates         Certificates         Certificates         Marine / Shipping	For use in hazard ous locations
IEC 61508 relating to ATEX         Certificates/ approvals         General Product Approval       EMC         Image: Control of the standard stand	ous locations
General Product Approval       EMC         Image: Constant of the second sec	ous locations
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Image: ATEX     Image: Certific-ates/Test Report       ATEX     EG-Konf.	Lloyds Register uxs
other	
Confirmation	

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