# SIEMENS

### Data sheet

### 3RW5544-2HA06



SIRIUS soft starter 200-690 V 250 A, 24 V AC/DC spring-type 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>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1331-0; Type of coordination 2, Iq = 65 kA</u>

 $\bullet$  of back-up R fuse link for semiconductor protection usable up to 690 V

3NE3335; Type of coordination 2, Iq = 65 kA

#### General technical data

General 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

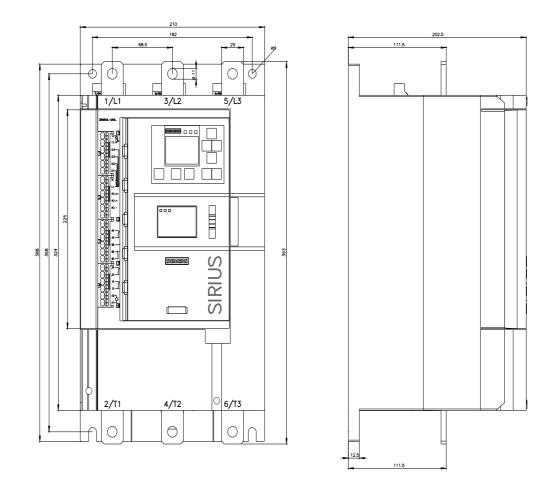
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
• for main current circuit	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 1 800 V
blocking voltage of the thyristor maximum service factor	1.15
	8 kV
surge voltage resistance rated value maximum permissible voltage for protective separation	O KV
	600 V: does not apply for thermister connection
between main and auxiliary circuit     shock resistance	690 V; does not apply for thermistor connection
	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance recovery time after overload trip adjustable	15 mm up to 6 Hz; 2 g up to 500 Hz 60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q AC 55a
Substance Prohibitance (Date)	02/15/2018
product function	02/10/2010
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
• pump ramp down	Yes
• DC braking	Yes
motor heating	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)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes; Only up to 600 V operating voltage
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
communication function	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
• event list	Yes
error logbook	Yes
via software parameterizable	Yes
• via software configurable	Yes
screw terminal	No
<ul> <li>spring-loaded terminal</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
<ul> <li>firmware update</li> </ul>	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>voltage ramp</li> </ul>	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
<ul> <li>condition monitoring</li> </ul>	Yes

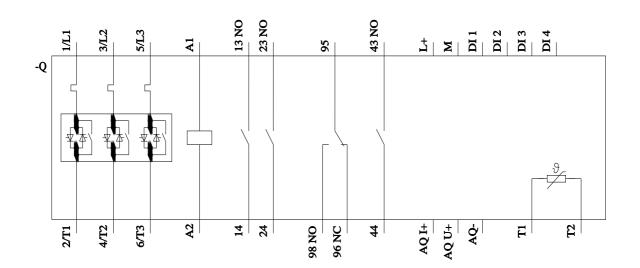
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	250 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	50 A
• at 50 °C rated value	220 A
• at 60 °C rated value	200 A
operational current at inside-delta circuit	
• at 40 °C rated value	433 A
• at 50 °C rated value	381 A
• at 60 °C rated value	346 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	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	75 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	132 kW
• at 400 V at 40 °C rated value	132 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	250 kW
• at 500 V at 40 °C rated value	160 kW
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	315 kW
• at 690 V at 40 °C rated value	250 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	75 W
• at 50 °C after startup	66 W
• at 60 °C after startup	60 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	3 806 W
<ul> <li>at 50 °C during startup</li> </ul>	3 176 W
<ul> <li>at 60 °C during startup</li> </ul>	2 787 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	AC/DC
control supply voltage at AC	
• 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	-10 %
frequency	

relative positive tolerance of the control supply voltage requeries you tappe of the control supply voltage at of the tolerance of the control supply voltage at the tolerance of the control supply voltage the tolerance of the control supply voltage the tolerance of the control supply voltage the tolerance of the tolerance of the control supply voltage the tolerance of the tolerance of the control supply voltage the tolerance of the tolerance of the tolerance of the tolerance the tolerance of the tolerance of the tolerance of the tolerance the tolerance of the tolerance of the tolerance of the tolerance the tolerance of the tolerance the tolerance of the tolerance the tolerance of the tolerance the tolerance of					
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pic         -20 %           pelative positive tolerance of the control supply voltage at poc         20 %           control supply current in standary mode rated value         40 mA           holding current in the standary mode rated value         40 mA           holding current in the standary mode rated value         70 mA           invash current by cleaing the typass contacts maximum         6.7 A           maintum         70 mA           maintum         6.7 A           design of the overoitage protection         Variot           design of the overoitage protection         Variot           design of the overoitage protection         Variot           mainter of digital inputs         4           - number of digital outputs         4           - number of digital outputs         1           - number of digital outputs         4           - number of digital outputs         1           - number of digital outputs         1           - number of digital outputs         1           - number of digital outputs parameterizable	control supply voltage				
pc         20 %           pelative policity to brance of the control supply voltage         20 %           control supply current in standy mode rated value         40 mA           holding current in bypass contacts maximum         7.A           mush current peak at application of control supply voltage         7.5 A           duration of innuh current peak at application of control supply voltage         20 ms           duration of innuh current peak at application of control supply voltage         20 ms           duration of innuh current peak at application of control supply voltage         20 ms           duration of innuh current peak at application of control supply voltage         20 ms           duration of innuh current peak at application of control supply voltage         4           unmber of digital potes         4           • parameterizable         4           • number of digital potes         3           • number of digital outputs         3           • number of digital outputs         3           • another of digital outputs         3           • another of digital outputs         4           • another of digital outputs         3           • another of digital outputs         3           • another of digital outputs         3           • another of digital outputs         4 </td <td>• at DC rated value</td> <td>24 V</td>	• at DC rated value	24 V			
pc         Model           control supply current in targets appendion rated value         720 mA           neah current ip coloring the typess contacts manuful appendix current ip coloring the typess contacts manuful appendix current ip coloring the types contacts manuful appendix current ip coloring the types contacts manuful appendix current ip coloring the types contacts manuful appendix current ip coloring to the type contact is manuful appendix current ip coloring the types contact manuful appendix current ip coloring the type contact is manuful appendix current ip coloring to the type contact is manuful appendix current ip coloring to the type contact is manuful appendix current ip coloring to the type contact is manuful appendix current in the types contact is manuful appendix current in the types contact is manuful appendix current in the types contact is manuful appendix current in the type contact is the type contact is the type contact is the type contact is type contact is the type contact is type context is type		-20 %			
holding current in bypass operation rated value         720 mA           inrush current psk at application of control supply         67 A           inrush current psk at application of control supply         20 ms           design of the overvoltage protection         Variator           design of a hort-circuit protection for control circuit         20 ms           inrush current psk at application of control circuit         20 ms           inrush current psk at application of control circuit         4 ng G fuse (loc) 14 A), 6 A quick-acting lise (loc) 14 A), (1 minitare circuit breaker (loc) 30 A), is not part of supply           inrush current psk at application of control circuit         4 ng G fuse (loc) 14 A), 6 A quick-acting lise (loc) 14 A), (2 minitare circuit breaker (loc) 30 A), is not part of supply           inrush control digital outputs         4           • unruber of digital outputs         4           • unruber of digital outputs         4           • unruber of digital outputs         3 nonally-open contacts (NO) / 1 changeover contact (CO)           unruber of digital outputs parameterizable         1           • unruber of digital outputs         3 A		20 %			
invasit current by closing the bypass contacts maximum freatmann         6.7.A           freatmann         pask at application of control supply voltage for the ververbage protection         7.5.A           design of the ververbage protection         Variator design of the ververbage protection         4.A 50 <sup>c</sup> train (Los = 1.0A), 6.A quick-acting face (Los = 1.0A), 0.C.T inniture circuit proprint Outputs           require of digital inputs         4           • number of digital outputs         3           • number of digital outputs         3           • number of digital outputs parameterizable         1           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs         3           • at 20 V rest of use outputs	control supply current in standby mode rated value	440 mA			
maximum         7.5 A           duration of invuls earrent peak at application of control supply         20 ms           design of the overvoltage protection         Variator           design of short-circuit protection for control circuit         4 protection           number of digital inputs         4           • number of digital outputs parameterizable         4           • number of digital outputs parameterizable         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           - digital outputs parameterizable         3           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treated value         3 A           • ath C-15 at 250 V treate value         3 A           • ath C-15 at 250 V treate value         <	holding current in bypass operation rated value	720 mA			
maximum         Control operations           Variation of invariant ourrent peak at application of control supply         20 ms           design of the overvoltage protection         24 mision           design of the overvoltage protection for control circuit         4 A 9G hase (num 1 AA). 6 A quick-auting hase (num 1 AA). C1 miniature circuit breaker (num 2 AA).           number of digital outputs parameterizable         4           number of digital outputs parameterizable         3           number of digital outputs parameterizable         3           number of als 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         3 A           eit AD-C-18 at 26 V neted value         <	inrush current by closing the bypass contacts maximum	6.7 A			
voltage         Voltage           design of the verotidage protection         Variator           design of short-circuit protection for centrol circuit         A SG Asse ((user 1AA). 6.4 quick-acting fase ((user 1AA). C1 ministure circuit protection for centrol circuit or sope of supply)           number of digital inputs         4           • parameterizable         4           • unumber of digital outputs sprameterizable         3           • number of digital outputs sprameterizable         3           • number of digital outputs sprameterizable         3           • at AC-15 at 250 V rated value         3A           • at AC-15 at 250 V rated value         3A           • at AC-15 at 250 V rated value         3A           • at AC-15 at 250 V rated value         3A           • at AC-15 at 250 V rated value         3A           • at AC-15 at 250 V rated value         3A           • at AC-15 at 26V rated value         3A           • at DC-15 at 26V rated value         3A           • at DC-15 at 26V rated value		7.5 A			
design of short-circuit protection for control circuit         A qG fuer (cu=1 A), B A quick-acting fuse (cu=1 30 A); is not part of scope of supply           Impute/ Outputs         Impute/ Outputs         Impute/ Outputs           number of digital inputs         4         Impute/ Outputs         Impute/ Outputs           number of digital outputs parameterizable         4         Impute/ Outputs         Impute/ Outputs           number of digital outputs parameterizable         3         Impute/ Outputs         Impute/ Outputs           in unmber of digital outputs parameterizable         3         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         1         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         3 A         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         Impute/ Outputs         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         Impute/ Outputs         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         Impute/ Outputs         Impute/ Outputs         Impute/ Outputs           extrching capacity current of the relay outputs         Impute/ Outputs         Impute/ Outputs         Impute/ Outputs           f		20 ms			
breaker (icui= 800 A), C6 miniature circuit breaker (cui= 800 A); is not part of generative and series of a series	design of the overvoltage protection	Varistor			
number of digital inputs         4           • parameterizable         4           • number of digital outputs         4           • number of digital outputs parameterizable         3           • number of digital outputs on parameterizable         1           • number of digital outputs on parameterizable         1           • number of digital outputs on parameterizable         1           • at DC-15 at 250 V rated value         3 A           • at DC-15 at 250 V rated value         1 A           Installation/ mounting / dimensions         Vertical (can be rotated +/- 90° and tited forward or backward +/- 22.5°)           fastening method         server / Knig           featured         30 mm           vidth         210 mm           depth         203 mm           • depth         203 mm           • depth         203 mm           • depth         10 mm           • backwards         0 mm           • downwards         5 mm           • at the side         5 mm           vidth of connection         50 m           • for control dricuti         sping-loaded terminals           vidth of connection         50 m           • for control dricuti         sping-loaded terminals	design of short-circuit protection for control circuit	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of			
• parameterizable4• number of digital outputs4• number of digital outputs parameterizable3• number of digital outputs parameterizable3• number of digital outputs parameterizable3• number of digital outputs3• number of analog outputs3• number of analog outputs3• at AC-15 at 250 V rated value3• at AC-15 at 24 V rated value20• at AC-15 at 250 V rated value20• at AC-15 at 24 V rated value20• at AC-15 at 24 V rated value20• at AC-15 at 24 V rated value10 mm• at AC-15 at 24 V rated value3• at AC-15 at 24 V rated value3• at AC-15 at 24 V rated value <td>Inputs/ Outputs</td> <td></td>	Inputs/ Outputs				
	number of digital inputs	4			
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1figital output version3 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 24 V rated value3 AInstation mounting/dimensionsVertical (can be rotated +/- 90° and titted forward or backward +/- 22.5°)fastening methodSarew fixingheight393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting0 mm• backwards10 mm• backwards10 mm• backwards0 mm• downwards75 mm• at the side5 mmweight without packaging10 kg• forwards10 kg• for main current circuitbuskar connection• for main current circuitbuskar connection• for main current circuit50 m• with conductor cross-section = 0.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• for DIN cable lug for main contacts firehy stranded2x (0, 240 mm <sup>3</sup> )• for DIN cable lug for main contacts fireh stranded2x (0, 240 mm <sup>3</sup> )• for Conto circuit sidid2x (0.25,15 mm <sup>3</sup> )• for ON cable lug for main contacts fireh stranded2x (0, 240 mm <sup>3</sup> )<	parameterizable	4			
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1figital output version3 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 24 V rated value3 AInstation mounting/dimensionsVertical (can be rotated +/- 90° and titted forward or backward +/- 22.5°)fastening methodSarew fixingheight393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting0 mm• backwards10 mm• backwards10 mm• backwards0 mm• downwards75 mm• at the side5 mmweight without packaging10 kg• forwards10 kg• for main current circuitbuskar connection• for main current circuitbuskar connection• for main current circuit50 m• with conductor cross-section = 0.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• for DIN cable lug for main contacts firehy stranded2x (0, 240 mm <sup>3</sup> )• for DIN cable lug for main contacts fireh stranded2x (0, 240 mm <sup>3</sup> )• for Conto circuit sidid2x (0.25,15 mm <sup>3</sup> )• for ON cable lug for main contacts fireh stranded2x (0, 240 mm <sup>3</sup> )<					
• number of digital outputs not parameterizable         1           digital output version         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analog outputs         1           • at AC-15 at 250 V rated value         3 A           • at AC-15 at 250 V rated value         1 A           is at 26 V rated value         1 A           Installation/ mounting/ dimensions         1           mounting position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         393 nm           height         393 nm           width         210 nm           depth         303 m           required spacing with side-by-side mounting         100 mm           • forwards         0 mm           • downwards         75 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         102 kg           Connections         50 m           • for main current circuit         busbar connection           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>3</sup> maximum         50 m           • with conductor cross-section = 2.5 mm <sup>3</sup> maximum         50 m	<ul> <li>number of digital outputs</li> </ul>	4			
digital output version     3 normally-open contacts (NO) / 1 changeover contact (CO)       number of analog outputs     1       switching capacity current of the relay outputs     3 A       • at AC-15 at 250 V rated value     3 A       • at DC-13 at 24 V rated value     1 A       Installation/ mounting/ dimensions     mounting position       Wetcal (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       height     393 mm       width     203 mm       depth     203 mm       required spacing with side-by-side mounting     10 mm       • forwards     10 mm       • backwards     0 mm       • upwards     10 mm       • downwards     5 mm       • at the side     5 mm       • for runin current circuit     busbar connection       • for ornol circuit     sping-loaded terminals       with conductor cross-section = 1.5 mm <sup>3</sup> maximum     45 mm       • with conductor cross-section = 1.5 mm <sup>3</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>3</sup> maximum     50 m       • for DIN cable lug for main contacts finely stranded     2x (0.25 1.5 mm <sup>3</sup> )       • yee of econtcable conductor cross-sections     - ((0.25 1.5 mm <sup>3</sup> )       • for CIN cable lug for main contactas finely stranded     2x (0.25 1.5 mm <sup>3</sup> )<		3			
digital output version     3 normally-open contacts (NO) / 1 changeover contact (CO)       number of analog outputs     1       switching capacity current of the relay outputs     3 A       • at AC-15 at 250 V rated value     3 A       • at DC-13 at 24 V rated value     1 A       Installation/ mounting/ dimensions     mounting position       Wetcal (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       height     393 mm       width     203 mm       depth     203 mm       required spacing with side-by-side mounting     10 mm       • forwards     10 mm       • backwards     0 mm       • upwards     10 mm       • downwards     5 mm       • at the side     5 mm       • for runin current circuit     busbar connection       • for ornol circuit     sping-loaded terminals       with conductor cross-section = 1.5 mm <sup>3</sup> maximum     45 mm       • with conductor cross-section = 1.5 mm <sup>3</sup> maximum     50 m       • with conductor cross-section = 2.5 mm <sup>3</sup> maximum     50 m       • for DIN cable lug for main contacts finely stranded     2x (0.25 1.5 mm <sup>3</sup> )       • yee of econtcable conductor cross-sections     - ((0.25 1.5 mm <sup>3</sup> )       • for CIN cable lug for main contactas finely stranded     2x (0.25 1.5 mm <sup>3</sup> )<	<ul> <li>number of digital outputs not parameterizable</li> </ul>	1			
switching capacity current of the relay outputs       at AC-15 at 250 V rated value       3 A         • at DC-15 at 250 V rated value       1 A         Installation/mounting/dimensions       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       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         • for main current circuit       busbar connection         • for onling current circuit       subsar connection         • for contoci circuit       spring-loaded terminals         with conductor cross-section = 0.5 mm² maximum       50 m         • for DIN cable lug for main contexts finely stranded       2x (50 240 mm²)         • with conductor cross-sections       50 m         • for DIN cable lug for main contacts finely stranded       2x (02 5 1.5 mm²)         • for OIN cable lug for main contacts finely stranded       2x (02 5 1.5 mm²)         • for OIN cable lug		3 normally-open contacts (NO) / 1 changeover contact (CO)			
• at AC-15 at 240 V rated value       3 A         • at DC-13 at 24 V rated value       1 A         Installation/ mounting/dimensions       Vertical (can be rolated +/- 90° and tilted forward or backward +/- 22.5°)         fastening method       screw fixing         height       393 mm         width       210 mm         dopth       203 mm         required spacing with side-by-side mounting       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         • of ormanics       75 mm         • for main current circuit       busbar connection         • for ontol circuit       busbar connection         • for main current circuit       busbar connection         • for ontol circuit       spring-loaded terminals         with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • for DIN cable lug for main contacts stranded       2x (70 240 mm²)         • for DIN cable lug for main contacts stranded       2x (25 1.5 mm²)         • for ONTcol circuit finely stranded with core end processing       2x (25 1.5 mm²)	number of analog outputs	1			
• at DC-13 at 24 V rated value1 AInstaliator mounting densionsVertical (can be rotated +/- 90° and tilled forward or backward +/- 22.5°)fastening methodscrew fixingheight393 mmwidth210 mmdepth203 mmrequired spacing with side-by-side mounting-• forwards10 mm• backwards0 mm• upwards100 mm• upwards100 mm• downwards5 mm• at the side5 mmwoight without packaging10.2 kgConnections/ Terminals-vith conductor cross-section = 1.5 mm <sup>2</sup> maximum50 mwith conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• for DIN cable lug for main contacts finely stranded2x (20.25 1.5 mm <sup>2</sup> )• for control circuit linely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with2x (24 16)	switching capacity current of the relay outputs				
Installation/ mounting/ dimensions         Vertical (can be rotated +/- 90° and bited 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         0 mm           • backwards         0 mm           • upwards         0 mm           • downwards         5 mm           • at the side         5 mm           weight without packaging         10.2 kg           Connections/ Torminals         5 mm           weight without circuit         busbar connection           • for main current circuit         busbar connection           • for control circuit         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-sections         2x (50 240 mm <sup>2</sup> )           • for onnal contacts finely stranded         2x (70 240 mm <sup>2</sup> )           • for control circuit finely stranded with core end processing         2x (0.25 1.5 m <sup>2</sup> )           • for control circuit finely stranded with core end processing         2x (24 16) <td>at AC-15 at 250 V rated value</td> <td>3 A</td>	at AC-15 at 250 V rated value	3 A			
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         0 mm           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         10.2 kg           Connections/ Terminals         5 mm           type of electrical connection         6 or mont circuit           • for control circuit         busbar connection           • for control circuit         spring-loaded terminals           with conductor cross-section = 0.5 mm² maximum         45 mm           • with conductor cross-section = 1.5 mm² maximum         50 m           • with conductor cross-section = 2.5 mm² maximum         250 m           • for control circuit sold         2x (50 240 mm²)           • for control circuit sold         2x (0.25 1.5 mm²)           • for control circuit sold         2x (0.25 1.5 mm²)           • for control circuit finely stranded with core end pro	<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A			
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         0 mm           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         10.2 kg           Connections/ Terminals         5 mm           type of electrical connection         6 or mont circuit           • for control circuit         busbar connection           • for control circuit         spring-loaded terminals           with conductor cross-section = 0.5 mm² maximum         45 mm           • with conductor cross-section = 1.5 mm² maximum         50 m           • with conductor cross-section = 2.5 mm² maximum         250 m           • for control circuit sold         2x (50 240 mm²)           • for control circuit sold         2x (0.25 1.5 mm²)           • for control circuit sold         2x (0.25 1.5 mm²)           • for control circuit finely stranded with core end pro	Installation/ mounting/ dimensions				
fastening method       screw fixing         height       393 mm         width       210 mm         depth       203 mm         required spacing with side-by-side mounting       00 mm         • forwards       10 mm         • backwards       0 mm         • upwards       00 mm         • downwards       75 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         • ornet circuit       sping-loaded terminals         weight without packaging       10.2 kg         Connections/ Terminals       50 m         width of connection       sping-loaded terminals         width of connection bar maximum       45 mm         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         • tor control circuit sold       2x (05 240 mm <sup>2</sup> )         • for control circuit sold       2x (0.25 1.5 mm <sup>3</sup> )         • for control circuit sold       2x (0.25 1.5 mm <sup>3</sup> )         • for control circuit sold       2x (0.25 1.5 mm <sup>3</sup> )         • for control circuit solid		Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)			
height     393 mm       width     210 mm       depth     20 mm       required spacing with side-by-side mounting     -       • forwards     10 mm       • backwards     0 mm       • backwards     0 mm       • backwards     0 mm       • downwards     100 mm       • downwards     5 mm       • at the side     5 mm       • at the side     5 mm       veight without packaging     10.2 kg       Connections/Terminals     5 mm       type of electrical connection     • for control circuit       • for control circuit     spring-loaded terminals       with of connection bar maximum     45 mm       with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 1.5 mm² maximum     250 m       • for DIN cable lug for main contacts stranded     2x (50 240 mm²)       • for DIN cable lug for main contacts stranded     2x (0.25 1.5 mm²)       • for control circuit solid     2x (0.25 1.5 mm²)       • for control circuit solid     2x (0.25 1.5 mm²)       • for AWG cables for control circuit finely stranded with core end processing     2x (24 16)					
width         210 mm           depth         203 mm           required spacing with side-by-side mounting         -           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • upwards         100 mm           • downwards         5 mm           • at the side         5 mm           • at the side         5 mm           connections/ Terminals         10.2 kg           Connections/ Terminals         5 mm           • for control circuit         spring-loaded terminals           • for control circuit         spring-loaded terminals           with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-sections         50 m           • for DIN cable lug for main contacts finely stranded         2x (00 240 mm <sup>2</sup> )           • for control circuit solid         2x (02 1.6 mm <sup>2</sup> )           • for control circuit solid         2x (02 1.5 mm <sup>3</sup> )           • for control circuit solid         2x (0.25 1.5 mm <sup>3</sup> )					
required spacing with side-by-side mounting         • forwards       10 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       10.2 kg         Connections/ Terminals       5 mm         type of electrical connection       6 for control circuit         • for orain current circuit       busbar connection         • for control circuit       spring-loaded terminals         width of connection bar maximum       45 mm         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         type of connectable conductor cross-sections       2x (0.25 240 mm <sup>2</sup> )         • for DIN cable lug for main contacts stranded       2x (0 240 mm <sup>2</sup> )         • for control circuit solid       2x (0.25 1.5 mm <sup>2</sup> )         • for control circuit solid       2x (0.25 1.5 mm <sup>2</sup> )         • for AWG cables for control circuit solid       2x (24 16)		210 mm			
required spacing with side-by-side mounting       10 mm         • forwards       10 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       10.2 kg         Connections/ Terminals       5 mm         type of electrical connection       5 mm         • for main current circuit       busbar connection         • for control circuit       spring-loaded terminals         with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         type of connectable conductor cross-sections       2x (50 240 mm <sup>2</sup> )         • for DIN cable lug for main contacts stranded       2x (0.25 1.5 mm <sup>2</sup> )         • for control circuit solid       2x (0.25 1.5 mm <sup>2</sup> )         • for AWG cables for control circuit solid       2x (24 16)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)	depth	203 mm			
• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side0 u.2 kgConnections/ Terminalstype of electrical connection• for main current circuitbubbar connection• for control circuitspring-loaded terminalswildh of connection bar maximum45 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• of r DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	•				
• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• weight without packaging10.2 kgConnections/ TerminalsUse a connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum45 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50240 mm²)• for DIN cable lug for main contacts finely stranded2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)		10 mm			
• upwards100 mm• downwards75 mm• at the side5 mm• at the side10.2 kgConnections/ Terminals10.2 kgconnections/ Terminals5 mm• for main current circuitbusbar connection• for control circuitspring-loaded terminals• with of connection bar maximum45 mm• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with2x (24 16)	backwards	0 mm			
• downwards75 mm• at the side5 mmweight without packaging10.2 kgConnections/ Terminals10.2 kgtype of electrical connectionbusbar connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (025 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit solid2x (0.25 1.6 m²)• for AWG cables for control circuit solid2x (0.25 1.6 m²)• for AWG cables for control circuit solid2x (24 16)• for AWG cables for control circuit stranded with core end processing2x (24 16)					
a dt the side5 mmweight without packaging10.2 kgConnections/ Terminalsbusbar connection• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum45 mmwite length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	•	75 mm			
weight without packaging       10.2 kg         Connections/Terminals       10.2 kg         type of electrical connection       10.2 kg         • for main current circuit       busbar connection         • for control circuit       spring-loaded terminals         width of connection bar maximum       45 mm         wire length for thermistor connection       50 m         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       250 m         • with conductor cross-sections       250 m         • with conductor cross-sections       2x (50 240 mm²)         • for DIN cable lug for main contacts stranded       2x (70 240 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)	• at the side	5 mm			
Connections/Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         width of connection bar maximum         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for DIN cable lug for main contacts stranded         • for DIN cable lug for main contacts finely stranded         • for control circuit solid         • for AWG cables for control circuit finely stranded with core end processing         • for AWG cables for control circuit finely stranded with core end processing					
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       with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       250 m         type of connectable conductor cross-sections       250 m         • for DIN cable lug for main contacts stranded       2x (50 240 mm²)         • for DIN cable lug for main contacts finely stranded       2x (70 240 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for control circuit solid       2x (0.25 1.5 mm²)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)         • for AWG cables for control circuit finely stranded with core end processing       2x (24 16)					
• for main current circuitbusbar connection• for control circuitspring-loaded terminalswidth of connection bar maximum45 mmwire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections-• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)					
• for control circuitspring-loaded terminalswidth of connection bar maximum45 mmwire length for thermistor connection• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)	••	busbar connection			
width of connection bar maximum45 mmwire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)					
wire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)2x (24 16)2x (24 16)					
• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)• for connectable conductor cross-sections2x (70 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)					
• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections2x (70 240 mm²)• for control circuit solid2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with2x (24 16)• for AWG cables for control circuit finely stranded with2x (24 16)		50 m			
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections2x (50 240 mm²)• for DIN cable lug for main contacts stranded2x (50 240 mm²)• for DIN cable lug for main contacts finely stranded2x (70 240 mm²)type of connectable conductor cross-sections2x (0.25 1.5 mm²)• for control circuit finely stranded with core end processing2x (0.25 1.5 mm²)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)• for AWG cables for control circuit finely stranded with core end processing2x (24 16)					
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<ul> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> <li>2x (70 240 mm<sup>2</sup>)</li> <li>2x (70 240 mm<sup>2</sup>)</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>2x (24 16)</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>					
• for DIN cable lug for main contacts finely stranded $2x (70 240 \text{ mm}^2)$ type of connectable conductor cross-sections $2x (0.25 1.5 \text{ mm}^2)$ • for control circuit solid $2x (0.25 1.5 \text{ mm}^2)$ • for control circuit finely stranded with core end processing $2x (0.25 1.5 \text{ mm}^2)$ • for AWG cables for control circuit solid $2x (24 16)$ • for AWG cables for control circuit finely stranded with $2x (24 16)$		$2x(50 - 240 \text{ mm}^2)$			
type of connectable conductor cross-sections $2x (0.25 \dots 1.5 \text{ mm}^2)$ • for control circuit solid $2x (0.25 \dots 1.5 \text{ mm}^2)$ • for control circuit finely stranded with core end processing $2x (0.25 \dots 1.5 \text{ mm}^2)$ • for AWG cables for control circuit solid $2x (24 \dots 16)$ • for AWG cables for control circuit finely stranded with core end processing $2x (24 \dots 16)$					
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (0.25 1.5 mm<sup>2</sup>)</li> <li>2x (24 16)</li> <li>2x (24 16)</li> </ul>		2A (10 240 Hill )			
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> <li>2x (24 16)</li> <li>2x (24 16)</li> </ul>	••	$2x(0.25 \pm 1.5 \text{ mm}^2)$			
for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with     core end processing     2x (24 16)     2x (24 16)					
• for AWG cables for control circuit finely stranded with core end processing 2x (24 16)					
	core end processing				

<ul> <li>between soft starter and motor maximum</li> </ul>	800 m		
at the digital inputs at DC maximum	1 000 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	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		
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C		
environmental category			
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
PROFINET high-feature	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: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA		
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA		
— usable for Standard Faults at 460/480 V at inside-	Siemens type: 3VA54, max. 600 A; Iq = 18 kA		
delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta	Siemens type: 3VA54, max. 600 A; lq max = 65 kA		
circuit according to UL — usable for Standard Faults at 575/600 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lg = 18 kA		
to UL — usable for High Faults at 575/600 V at inside-delta	Siemens type: 3VA54, max. 600 A; lg max = 65 kA		
circuit according to UL — usable for Standard Faults at 575/600 V at inside-	Siemens type: 3VA54, max. 600 A; lq = 18 kA		
<ul> <li>delta circuit according to UL</li> <li>of the fuse</li> </ul>	Siemens type. 37434, max. 000 A, iq - 16 KA		
<ul> <li>or the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 800 A; Iq = 18 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 800 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. 800 A; lq = 18 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. 800 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	60 hp		
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	75 hp		
• at 460/480 V at 50 °C rated value	150 hp		
• at 575/600 V at 50 °C rated value	200 hp		
<ul> <li>at 575/600 V at 50°C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	200 hp 125 hp		
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	150 hp		
	300 hp		
at 575/600 V at inside-delta circuit at 50 °C rated value	350 hp		
contact rating of auxiliary contacts according to UL	R300-B300		

Safety related data	front occurrity of		IDOO				
protection class IP on the f	•		IP00; IP20 with cover finger-safe, for vertical contact from the front with cover				
electromagnetic compatibi		0 00029	Ŭ	to IEC 60947-4-2	a nom the nont with cover		
ATEX			acc.				
certificate of suitability							
ATEX			Yes				
• IECEx			Yes				
according to ATEX dir	ective 2014/34/EU			18 ATEX F 003 X			
type of protection accordin		e 2014/34/EU			[Ex pxb Gb], II (2)D [Ex tb	Db] [Ex pxb Db], I (M2)	
			[Ex d	b Mb]			
hardware fault tolerance ac ATEX	ccording to IEC 615	508 relating to	0				
PFDavg with low demand r relating to ATEX	ate according to IE	EC 61508	0.008	3			
PFHD with high demand ra to ATEX	ite according to EN	62061 relating	5E-7	1/h			
Safety Integrity Level (SIL) to ATEX	according to IEC 6	61508 relating	SIL1				
T1 value for proof test intel IEC 61508 relating to ATEX		according to	3 a				
Certificates/ approvals							
General Product Approval						EMC	
	Confirmation			•		•	
(SD		(m)		ŝ	101	kà.	
					ΓΠΙ	Ś	
CSA		ccc		UL		RCM	
		Doclaration	Con				
For use in hazardous locat	tions	Declaration of formity	Con-	Test Certificates	Marine / Shipping		
IFCF		~ ~		Type Test Certific-			
IECEX	{Ex}	LE		ates/Test Report			
IECEx	ATEX	EG-Konf.			ABS		
						VERITAS	
Marine / Shipping		other					
	~						
Llovds	633	Confirmatio	n				
Kegister							
LRS	PRS						
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