## SIEMENS

## Data sheet

## 3RW5546-2HA14



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC 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, lq = 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>	3VA2580-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1334-2; Type of coordination 2, Iq = 65 kA</u>		
ieneral 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 morking	Vaa			
• 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 %			
recovery time after overload trip adjustable	60 1 800 s			
buffering time in the event of power failure	100			
for main current circuit	100 ms			
for control circuit	100 ms			
idle time adjustable	0 255 s			
insulation voltage rated value	480 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 400 V			
service factor	1.15			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
between main and auxiliary circuit	480 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)	15.02.2018 00:00:00			
product function				
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes			
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes			
<ul> <li>breakaway pulse</li> </ul>	Yes			
<ul> <li>adjustable current limitation</li> </ul>	Yes			
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes			
<ul> <li>pump ramp down</li> </ul>	Yes			
DC braking	Yes			
<ul> <li>motor heating</li> </ul>	Yes			
<ul> <li>slave pointer function</li> </ul>	Yes			
<ul> <li>trace function</li> </ul>	Yes			
<ul> <li>intrinsic device protection</li> </ul>	Yes			
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick			
inside-delta circuit	Yes			
● auto-RESET	Yes			
manual RESET	Yes			
remote reset	Yes			
communication function	Yes			
<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			
spring-type terminal	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-			
- FICH IEIIEI'BY	res, in connection with the FICOTINET Standard and FROFINET HIgh-			

• Introversite update     Yes       • onloge rang     Yes       • onloge rang     Yes       • onloge rang     Yes       • onloge output     Yes       • analog output     Yes       • analog output     Yes       • onclined traking     Yes       • analog output     Yes       • analog outp		Feature communication modules				
<ul> <li>removable forminal for control circuit</li> <li>voltage control</li> <li>torque control</li> <li>torque control</li> <li>torque control</li> <li>torque control</li> <li>torque control</li> <li>types</li> <li>condition monitoring</li> <li>types</li> <litypes< li=""></litypes<></ul>	● firmware update					
<ul> <li>voltage ramp</li> <li>vorque control</li> <li>Yes</li> <li>combined braking</li> <li>Yes</li> <li>combined braking</li> <li>Yes</li> <li>conditione braking</li> <li>Yes</li> <li>condition monitoring</li> <li>ves</li> <li>condition monitoring</li> <li>Yes</li> <li>condition monitoring</li> <li>Yes</li> <li>condition monitoring</li> <li>reversing operation</li> <li>revers</li></ul>	•					
<ul> <li>torque control</li> <li>combined braking</li> <li>ves</li> <li>combined braking</li> <li>ves</li> <li>condition monitoring</li> <li>ves</li> <li>condition mode</li> <li>ves</li> <li>condition mode</li> <li>ves</li> <li>ve</li></ul>						
<ul> <li>confidence bracking</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>programmable control inputs/outputs</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>ves: 4.0 10 V (and value) 200 A 40 V</li> <li>ves: 4.0 40 V C rade value</li></ul>						
<ul> <li>analog output</li> <li>ves: 4 20 mA (default) / 0 10 V</li> <li>vpogrammable control inputs/outputs</li> <li>ves</li> <li>condition monitoring</li> <li>ves</li> <li>automate parameterisation</li> <li>ves</li> <li>allemative run-down</li> <li>ves</li> <li>allemative run-down</li> <li>ves</li> <li>ansig appention</li> <li>ves</li> <li>ansite and a server starting at heavy starting conditions</li> <li>ves</li> <li>ves</li> <li>ansite and a server starting at heavy starting conditions</li> <li>ves</li> <l< th=""><td></td><td colspan="5"></td></l<></ul>						
<ul> <li>enorgammable control inputs/outputs</li> <li>enorgaming control inputs/outputs</li> <li>enorgaming</li></ul>	6					
<ul> <li>condition monitoring</li> <li>eutomatic parameterisation</li> <li>explication wizards</li> <li>explication</li> <li>explication</li> <li>explication</li> <li>exp</li></ul>						
automatic parameterisation     Yes     application wizards     Yes     alternative run-down     Yes     emergency operation mode     Yes     emergency operation mode     Yes     reversing operation     yes     soft starting at heavy starting conditions     Yes		Yes				
• application wizards       Yes         • alternative run-down       Yes         • emergency operation mode       Yes         • cost stating at heavy staring conditions       Yes         • soft stating at heavy staring conditions       Yes         • and voic Trade value       370 A         • at 40 °C rated value       370 A         • at 40 °C rated value       300 A         • operational current       44 A         • at 60 °C rated value       300 A         operational current at inside-delta circuit       641 A         • at 50 °C rated value       658 A         • at 60 °C rated value       568 A         • at 60 °C rated value       519 A         operating voltage       -15 %         • rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • at sinde-delta circuit rated value       200 480 V         • relative negative t	5	Yes				
emergency operation mode Yes     eventsing operation a turnet Yes     end of the operating conditions     Yes     end of Crated value minimum 74 A     eat 40 °C rated value minimum 74 A     eat 40 °C rated value minimum 74 A     eat 60 °C rated value 641 A     eat 60 °C rated value 640 °C rated value 740 °C     eat 640 °C rated value 740 °C rated va		Yes				
reversing operation     reversing operation     reversing operations     Yes     ves     soft starting at heavy starting conditions     Yes     Power Electronies      operational current         at 40 °C rated value 370 A         at 40 °C rated value 370 A         at 40 °C rated value 370 A         at 40 °C rated value 328 A         at 60 °C rated value 300 A         certain value 300 A         certain value 300 A         certain value 300 A         certain value 568 A         at 60 °C rated value 568 A         at 60 °C rated value 568 A         at 60 °C rated value 568 A         certain value 569 A         certain value 560 A	alternative run-down	Yes				
•• soft starting at heavy starting conditions     Power Electronics     operational current     • at 40 °C rated value     at 40 °C rated value     at 50 °C rated value     328 A     at 60 °C rated value     568 A     at 60 °C rated value     contains to the operating voltage     at 75 %     frelative negative tolerance of the operating voltage     relative positive tolerance of the operating voltage     tristice-delta circuit     relative positive tolerance of the operating voltage at     inside-delta circuit at     at 230 °X at 40 °C rated value     at 230 °X at 40 °C rated value     at 230 °X at 40 °C rated value     at 400 °X at 100 °C rated value     at 400 °X at 100 °C rated value     at 400 °X at 100 °C rated value     50 Hz     Operating frequency 1 rated value     50 Hz     Operating frequency 2 rated value     for 60 +z     10 %; Relative to set le     power loss [W] for rated value of the operating frequency     10 %;     minimum load [%]     mover loss [W] at AC at current timitation 350 %     at 40 °C during startup     469 W     at 60 °C duri	<ul> <li>emergency operation mode</li> </ul>	Yes				
Power Electronics           operational current           • at 40 °C rated value           • at 50 °C rated value           • at 60 °C rated value           • at 10 °C rated value           • at 230 V at 40 °C rated value           • at 230 V at 40 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value           • at 230 V at 10 °C rated value	<ul> <li>reversing operation</li> </ul>	Yes				
operational current     at 40 °C rated value     370 Å       • at 40 °C rated value     370 Å       • at 60 °C rated value     300 Å       operational current inside-delta circuit     641 Å       • at 60 °C rated value     568 Å       • at 60 °C rated value     519 Å       operating voltage     10 %       • relative negative tolerance of the operating voltage     -15 %       relative negative tolerance of the operating voltage     -15 %       relative negative tolerance of the operating voltage at inside-delta circuit     10 %       relative negative tolerance of the operating voltage at inside-delta circuit at 40 °C rated value     200 kW       • at 230 V at an inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at inside-delta circuit at 40 °C rated value     200 kW       • at 40 °C aft	<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes				
• at 40 °C rated value     370 A       • at 40 °C rated value minimum     74 A       • at 60 °C rated value     328 A       • at 60 °C rated value     300 A       operational current at inside-delta circuit     641 A       • at 60 °C rated value     641 A       • at 61 °C rated value     641 A       • at 61 °C rated value     641 A       • at 61 °C rated value     641 A       • at 80 °C rated value     75 %       relative negative tolerance of the operating voltage at     15 %       relative positive tolerance of the operating voltage at     10 %       relative negative tolerance of the operating voltage at     10 %       operating power for 3-phase motors     10 %       • at 230 V at 40 °C rated value     200 kW       • at 230 V at at 0°C rated value     50 k2       Operating frequency 7 rated value     50 k2       Operating frequency 7 rated value     50 k2       Operating frequency 7 rated value	Power Electronics					
• at 40 °C rated value74 A• at 50 °C rated value300 Aoperational current at inside-delta circuit641 A• at 60 °C rated value641 A• at 60 °C rated value568 A• at 60 °C rated value519 Aoperating voltage200 480 V• at at 60 °C rated value200 480 V• at at 60 °C rated value10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 %relative negative tolerance of the operating voltage at inside-delta circuit at 40 °C rated value10 %• at 230 V at 40 °C rated value200 kW• at 230 V at a inside-delta circuit at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value50 kLzOperating frequency 1 rated value50 kLzOperating frequency 2 rated value60 Hzoperating frequency 2 rated value60 Hzoperating frequency 2 rated value60 Hzoperating frequency 1 rated value50 kLzoperating frequency 1 rated value50 kLzoperating frequency 1 rated value60 Hzoperating frequency 1 rated value60	operational current					
• at 50 °C rated value     328 Å       • at 60 °C rated value     300 Å       operational current at inside-delta circuit     641 Å       • at 60 °C rated value     568 Å       • at 60 °C rated value     518 Å       • at 60 °C rated value     519 Å       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     10 %       • at 70 °C rated value     10 %       • relative positive tolerance of the operating voltage at inside-delta circuit     10 %       • at 200 V at 40 °C rated value     10 %       • at 200 V at 40 °C rated value     200 kW       • at 200 V at 10 °C rated value     200 kW       • at 400 V at 60 °C rated value     60 Hz       • at 400 °C rated value     60 Hz       • at 40 °C rated value     60 Hz       • at 40 °C after startup     10 %       • at 40 °C after startup     98 W       • at 40 °C after startup     98 W       • at 60 °C during startup     5 653 W       • at 60 °C during startup	• at 40 °C rated value	370 A				
• at 60 °C rated value300 Aoperational current at inside-deta circuit641 A• at 50 °C rated value568 A• at 60 °C rated value519 Aoperating voltage719 A• rated value200 480 V• at inside-deta circuit rated value200 480 V• relative negative tolerance of the operating voltage15 %relative negative tolerance of the operating voltage at15 %inside-deta circuit10 %relative negative tolerance of the operating voltage at10 %inside-deta circuit10 %relative negative tolerance of the operating voltage at10 %inside-deta circuit10 %operating power for 3-phase motors10 %• at 230 V at 1nside-deta circuit at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 400 V at 1nside-detta circuit at 40 °C rated value50 HzOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency10 %relative negative tolerance of the current at AC111 W• at 60 °C after	<ul> <li>at 40 °C rated value minimum</li> </ul>	74 A				
operational current at inside-delta circuit641 A• at 40 °C rated value568 A• at 60 °C rated value568 A• at 60 °C rated value519 Aoperating voltage200 480 V• rated value200 480 V• at and value200 480 Vrelative negative tolerance of the operating voltage15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value200 kW• at 230 V at 40 °C rated value200 kW• at 230 V at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value60 HzOperating frequency 1 rated value60 HzOperating frequency 2 rated value60 HzOperating frequency 2 rated value10 %relative positive tolerance of the operating frequency10 %relative positive tolerance of the operating frequency10 %relative positive tolerance of the current at AC111 W• at 60 °C after startup90 W• at 60 °C during startup5 563 W• at 60 °C during startup4 694 W• at 60 °C during startup4 694 W• at 60 °C during startup4 694 W• at 60 °C during startup5 563 W• at 60 °C during startup5 563 W• at 60 °C during startup4 694 W• at 60 °C d	<ul> <li>at 50 °C rated value</li> </ul>	328 A				
• at 40 °C rated value     641 A       • at 50 °C rated value     568 A       • at 60 °C rated value     519 A       • relative value     200 480 V       • at inside-delta circuit rated value     200 480 V       relative negative tolerance of the operating voltage     -15 %       relative negative tolerance of the operating voltage     10 %       relative negative tolerance of the operating voltage at inside-delta circuit     10 %       relative negative tolerance of the operating voltage at inside-delta circuit     10 %       relative negative tolerance of the operating voltage at inside-delta circuit     10 %       operating power for 3-phase motors     10 %       • at 200 V at inside-delta circuit at 40 °C rated value     200 kW       • at 400 V at winder delta circuit at 40 °C rated value     50 Hz       Operating frequency 1 rated value     50 Hz       Operating frequency 2 rated value     60 Hz       relative positive tolerance of the operating frequency     -10 %       relative negative tolerance of the operating frequency     10 %       relative negative tolerance of the operating frequency     -10 %       operating frequency 1 rated value     60 Hz       operating frequency     10 %       relative negative tolerance of the operating frequency     10 %       relative positive tolerance of the operating frequency     10 % <td>• at 60 °C rated value</td> <td>300 A</td>	• at 60 °C rated value	300 A				
• at 50 °C rated value     568 A       • at 60 °C rated value     519 A       operating voltage     200 480 V       • at inside-delta circuit rated value     200 480 V       relative negative tolerance of the operating voltage     15 %       relative negative tolerance of the operating voltage     10 %       relative negative tolerance of the operating voltage at inside-delta circuit     -15 %       relative negative tolerance of the operating voltage at inside-delta circuit     -15 %       operating power for 3-phase motors     -10 %       • at 230 V at 40 °C rated value     200 kW       • at 230 V at 40 °C rated value     200 kW       • at 40 V at inside-delta circuit at 40 °C rated value     200 kW       • at 40 V at inside-delta circuit at 40 °C rated value     50 Hz       Operating frequency 1 rated value     50 Hz       Operating frequency 1 rated value     50 Hz       or 3 differ startup     10 %; Relative to set le       power loss [W] for rated value of the current at AC     11 W       • at 40 °C after startup     90 W       • at 60 °C after startup     4 684 W       • at 60 °C after startup     4 684 W       • at 60 °C during startup     4 684 W       • at 60 °C during startup     4 684 W       • at 60 °C during startup     4 684 W       • at 60 °C during startup     4	operational current at inside-delta circuit					
• at 60 °C rated value519 Aoperating voltage • rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative positive tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %operating power for 3-phase motors • at 230 V at 10 °C rated value10 %• at 230 V at 0 °C rated value • at 400 V at on °C rated value200 kW• at 230 V at inside-delta circuit at 0 °C rated value • at 400 V at on °C rated value50 HzOperating frequency 1 rated value • at 400 V at inside-delta circuit at 0 °C rated value • at 400 V at on °C rated value • at 400 V at on °C rated value • at 400 °C rated value • 50 Hz50 HzOperating frequency 2 rated value • at 40 °C rated value • at 40 °C rated value • at 50 °C after startup • at 50 °C during startup • at 55 °C during startup • at 55 °C during startup • at 50 °C during startup • at 60 °C during startup • at 50 °C during startup • at 60 °C during startup • at 50 °C during startup • at 60	• at 40 °C rated value	641 A				
operating voltage • rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit at 40 °C rated value10 %operating power for 3-phase motors • at 230 V at 40 °C rated value10 %• at 400 V at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value60 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzoperating frequency 1 rated value10 %minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC111 W• at 60 °C after startup98 W• at 40 °C during startup5 563 W• at 60 °C during startup4 492 W• at 60 °C during startup4 145 W• at 60 °C during s	• at 50 °C rated value	568 A				
rated value     at inside-delta circuit rated value     relative negative tolerance of the operating voltage     relative negative tolerance of the operating voltage at     inside-delta circuit     relative positive tolerance of the operating voltage at     inside-delta circuit     relative positive tolerance of the operating voltage at     inside-delta circuit     operating power for 3-phase motors	• at 60 °C rated value	519 A				
• at inside-delta circuit rated value       200 480 V         relative negative tolerance of the operating voltage       -15 %         relative negative tolerance of the operating voltage at inside-delta circuit       -15 %         relative positive tolerance of the operating voltage at inside-delta circuit       -15 %         operating power for 3-phase motors       -15 %         • at 230 V at 40 °C rated value       10 %         • at 230 V at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at a inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at an inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at an inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at an inside-delta circuit at 40 °C rated value       60 Hz         relative negative tolerance of the operating frequency       -10 %         relative positive tolerance of the current at AC       -10 %         • at 40 °C after startup       10 %; Relative to set le         power loss [W] for rated value       563 W         • at 60 °C after startup       90 W         • at 60 °C during startup       4694 W						
relative negative tolerance of the operating voltage       -15 %         relative positive tolerance of the operating voltage at inside-delta circuit       10 %         relative positive tolerance of the operating voltage at inside-delta circuit       -15 %         operating power for 3-phase motors       0 %         • at 230 V at 40 °C rated value       10 %         • at 230 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       355 kW         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative nogative 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         • at 40 °C after startup       98 W         • at 40 °C after startup       90 W         power loss [W] at AC at current limitation 350 %       • at 40 °C during startup         • at 60 °C during startup       5 563 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 694 W         • at 60 °C durin						
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       10 %         • at 230 V at 40 °C rated value       200 kW         • at 230 V at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       50 Hz         Operating frequency 1 rated value       60 Hz         relative negative tolerance of the operating frequency       10 %         relative negative tolerance of the operating frequency       10 %         relative positive tolerance of the operating frequency       10 %         relative positive tolerance of the operating frequency       10 %         relative positive tolerance of the operating frequency       10 %         eat 40 °C after startup       90 W         power loss [W] for rated value of the current at AC       111 W         • at 60 °C after startup       90 W         power loss [W] at AC at current limitation 350 %       563 W         • at 60 °C during startup       56						
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       10 %         • at 230 V at 40 °C rated value       200 kW         • at 230 V at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       355 kW         Operating frequency 1 rated value       60 Hz         relative negative tolerance of the operating frequency       -10 %         relative negative tolerance of the operating frequency       10 %         minimum load [%]       10 %; Relative to set le         power loss [W] for rated value of the current at AC       111 W         • at 40 °C after startup       90 W         power loss [W] at AC at current limitation 350 %       5 63 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit Control       40 °C         type of the control supply voltage       AC         control suppl						
inside-detta circuit       10 %         operating power for 3-phase motors       10 %         • at 230 V at 40 °C rated value       110 kW         • at 230 V at inside-detta circuit at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at inside-detta circuit at 40 °C rated value       200 kW         • at 400 V at inside-detta circuit at 40 °C rated value       355 kW         Operating frequency 1 rated value       60 Hz         relative negative tolerance of the operating frequency       10 %; Relative to set le         power loss [W] for rated value of the current at AC       10 %; Relative to set le         power loss [W] for rated value of the current at AC       111 W         • at 40 °C dring startup       90 W         power loss [W] at AC at current limitation 350 %       5 563 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit Control       4 10 250 V         • at 50 Hz       110 250 V						
inside-delta circuitoperating power for 3-phase motors• at 230 V at 40 °C rated value110 kW• at 230 V at inside-delta circuit at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value50 HzOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency10 %minimum load [%]10 %: Relative to set lepower loss [W] for rated value of the current at AC• at 40 °C after startup• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %• at 40 °C during startup• at 60 °C during startup• at 50		-15 %				
• at 230 V at 40 °C rated value       110 kW         • at 230 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       355 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       90 W         power loss [W] at AC at current limitation 350 %       -         • at 60 °C dring startup       5 563 W         • at 60 °C during startup       4 494 W         • at 60 °C during startup       4 4594 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit/ Control       -         type of voltage at AC       -         • at 50 Hz       110 250 V         • at 60 Hz       110 250 V		10 %				
• at 230 V at inside-delta circuit at 40 °C rated value       200 kW         • at 400 V at 40 °C rated value       200 kW         • at 400 V at inside-delta circuit at 40 °C rated value       355 kW         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative negative tolerance of the operating frequency       10 %         minimum load [%]       10 %; Relative to set le         power loss [W] for rated value of the current at AC       0 %; Relative to set le         • at 40 °C after startup       98 W         • at 60 °C after startup       90 W         power loss [W] at AC at current limitation 350 %       5 563 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control supply voltage at AC       at 50 V         • at 50 Hz       110 250 V						
• at 400 V at 40 °C rated value200 kW• at 400 V at inside-delta circuit at 40 °C rated value355 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC						
• at 400 V at inside-delta circuit at 40 °C rated value       355 kW         Operating frequency 1 rated value       50 Hz         Operating frequency 2 rated value       60 Hz         relative negative tolerance of the operating frequency       10 %         minimum load [%]       10 %; Relative to set le         power loss [W] for rated value of the current at AC       111 W         • at 40 °C after startup       98 W         • at 60 °C after startup       90 W         power loss [W] at C at current limitation 350 %       5563 W         • at 60 °C during startup       4 694 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit/ Control       410 250 V         • at 60 Hz       110 250 V						
Operating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC111 W• at 40 °C after startup98 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %5563 W• at 40 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
Operating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC-111 W• at 40 °C after startup98 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %-• at 40 °C during startup5 563 W• at 40 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
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       111 W         • at 40 °C after startup       98 W         • at 60 °C after startup       90 W         power loss [W] at AC at current limitation 350 %       5 563 W         • at 40 °C during startup       4 694 W         • at 60 °C during startup       4 145 W         type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit/ Control       AC         • at 50 Hz       110 250 V         • at 60 Hz       110 250 V						
relative positive tolerance of the operating frequency10 %minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC111 W• at 40 °C after startup98 W• at 50 °C after startup90 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %5 563 W• at 40 °C during startup5 563 W• at 60 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
minimum load [%]10 %; Relative to set lepower loss [W] for rated value of the current at AC111 W• at 40 °C after startup98 W• at 60 °C after startup90 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %• at 40 °C during startup• at 50 °C during startup5 563 W• at 60 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ Controltype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
power loss [W] for rated value of the current at AC• at 40 °C after startup111 W• at 50 °C after startup98 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %•• at 40 °C during startup5 563 W• at 50 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ Controltype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
• at 40 °C after startup111 W• at 50 °C after startup98 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %• at 40 °C during startup5 563 W• at 40 °C during startup4 694 W• at 50 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
• at 50 °C after startup98 W• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %90 W• at 40 °C during startup5 563 W• at 50 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V		111 \\/				
• at 60 °C after startup90 Wpower loss [W] at AC at current limitation 350 %90 W• at 40 °C during startup5 563 W• at 50 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz110 250 V• at 60 Hz110 250 V						
power loss [W] at AC at current limitation 350 %• at 40 °C during startup5 563 W• at 50 °C during startup4 694 W• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ Controltype of voltage of the control supply voltageACACcontrol supply voltage at AC110 250 V• at 60 Hz110 250 V						
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>4 694 W</li> <li>at 60 °C during startup</li> <li>4 145 W</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC         <ul> <li>at 50 Hz</li> <li>110 250 V</li> <li>at 60 Hz</li> <li>110 250 V</li> </ul> </li> </ul>						
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>4 694 W</li> <li>4 145 W</li> <li>type of the motor protection</li> <li>Electronic, tripping in the event of thermal overload of the motor</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>AC</li> <li>control supply voltage at AC         <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>110 250 V</li> <li>110 250 V</li> </ul> </li> </ul>		5 563 W				
• at 60 °C during startup4 145 Wtype of the motor protectionElectronic, tripping in the event of thermal overload of the motorControl circuit/ ControlACtype of voltage of the control supply voltageACcontrol supply voltage at AC110 250 V• at 60 Hz110 250 V						
type of the motor protection       Electronic, tripping in the event of thermal overload of the motor         Control circuit/ Control       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       110 250 V         • at 50 Hz       110 250 V         • at 60 Hz       110 250 V						
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       110 250 V         • at 50 Hz       110 250 V         • at 60 Hz       110 250 V		4 145 W				
type of voltage of the control supply voltageACcontrol supply voltage at AC110 250 V• at 50 Hz110 250 V• at 60 Hz110 250 V	• at 60 °C during startup					
control supply voltage at AC         110 250 V           • at 50 Hz         110 250 V           • at 60 Hz         110 250 V	• at 60 °C during startup type of the motor protection					
• at 50 Hz 110 250 V • at 60 Hz 110 250 V	at 60 °C during startup     type of the motor protection     Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor				
	at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage	Electronic, tripping in the event of thermal overload of the motor				
relative negative tolerance of the control supply -15 %	at 60 °C during startup      type of the motor protection      Control circuit/ Control      type of voltage of the control supply voltage      control supply voltage at AC	Electronic, tripping in the event of thermal overload of the motor AC				
	at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz	Electronic, tripping in the event of thermal overload of the motor AC 110 250 V				

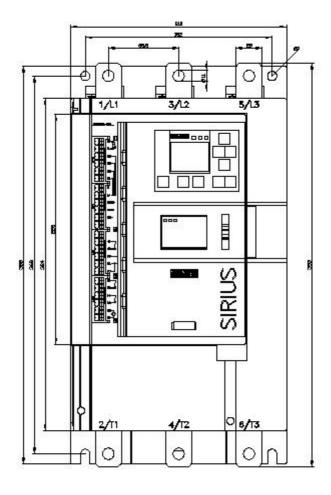
voltage at AC at 50 Hz				
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage frequency	-10 %			
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	100 mA			
holding current in bypass operation rated value	150 mA			
locked-rotor current at close of bypass contact maximum	0.87 A			
inrush current peak at application of control supply voltage maximum	43 A			
duration of inrush current peak at application of control supply voltage	1.6 ms			
design of the overvoltage protection	Varistor			
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply			
Inputs/ Outputs				
number of digital inputs	4			
parameterizable	4			
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick			
· · · · · · · · · · · · · · · · · · ·				
number of digital outputs	4			
number of digital outputs parameterizable	3			
number of digital outputs not parameterizable	1			
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	1			
switching capacity current of the relay outputs				
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A			
• at DC-13 at 24 V rated value	1 A			
Installation/ mounting/ dimensions				
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)			
fastening method	screw fixing			
height	393 mm			
width	210 mm			
depth	203 mm			
required spacing with side-by-side mounting				
<ul> <li>forwards</li> </ul>	10 mm			
backwards	0 mm			
upwards	100 mm			
downwards	75 mm			
• at the side	5 mm			
weight without packaging	10.9 kg			
Connections/ Terminals				
type of electrical connection				
for main current circuit	busbar connection			
for control circuit	spring-loaded terminals			
width of connection bar maximum	45 mm			
wire length for thermistor connection				
<ul> <li>with conductor cross-section = 0.5 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			
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m			
type of connectable conductor cross-sections				
for DIN cable lug for main contacts stranded	2x (50 240 mm²)			

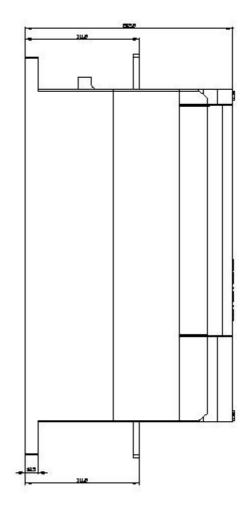
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)				
type of connectable conductor cross-sections					
for control circuit solid	2x (0.25 1.5 mm²)				
<ul> <li>for control circuit finely stranded with core end</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )				
processing					
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)				
<ul> <li>at AWG cables for control circuit finely stranded with</li> </ul>	2x (24 16)				
core end processing					
<ul> <li>wire length</li> <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	1 000 m				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m				
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m				
terminals					
tightening torque [lbf·in]					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in				
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in				
Ambient conditions					
installation altitude at height above sea level maximum	5 000 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					
PROFINET standard	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 the fuse	Type: Class $1/1$ , may 1200 A: $l_{\pi} = 40 k_{\pi}$				
— usable for Standard Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 18 kA				
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 1200 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 J / L, max. 1200 A; Iq = 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. 1200 A; Iq = 100 kA				
operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	100 hp				
• at 220/230 V at 50 °C rated value	125 hp				
• at 460/480 V at 50 °C rated value	250 hp				
• at 200/208 V at inside-delta circuit at 50 °C rated value	200 hp				
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	200 hp				
• at 460/480 V at inside-delta circuit at 50 °C rated value	450 hp				

contact rating of aux	ciliary contacts accor	ding 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			finge	r-safe, for vertical con	tact from the front with	h cover
electromagnetic compatibility			acc.	to IEC 60947-4-2		
ATEX						
certificate of suitabi	lity		Ver			
<ul> <li>ATEX</li> <li>IECEx</li> </ul>			Yes Yes			
	EX directive 2014/34/I	FU		18 ATEX F 003 X		
	cording to ATEX directive 2014/34/1				b] [Ex pxb Gb] II (2)[	) [Ex th Dh] [Ex pxh Dh]
2014/34/EU	_		II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]			
ATEX	ance acc. to IEC 6150		0	_		
PFDavg with low der relating to ATEX	mand rate acc. to IEC	61508	0.00	8		
to ATEX	and rate acc. to EN 6		0.00	00005 1/h		
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating	SIL1			
T1 value for proof te IEC 61508 relating to	st interval or service ATEX	life acc. to	3 у			
Certificates/ approval	s					
General Product Ap	proval				EMC	For use in hazard- ous locations
		(U) UI		EHC	RCM	K ATEX
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping		
IECEx	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyd's Register us
Marine / Shipping		other				
PRS	DNV-GL Chevel.com	<u>Confirmatio</u>	<u>nc</u>			
Further information						
Information- and Downloadcenter (Catalogs, Brochures,)						
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5546-2HA14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-2HA14 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
Service&Support (M https://support.industr						
Image database (pro	duct images, 2D dim	ension drawing	s, 3D n	- nodels, device circui		macros,)
Characteristic: Tripp https://support.industr	bing characteristics, I					

## Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5546-2HA14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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