## SIEMENS

## Data sheet

## 3RW5546-2HA16



SIRIUS soft starter 200-690 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, 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>	<u>3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>			
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>			
<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>			
General technical data				
starting voltage [%]	20 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 360 s			
ramp-down time of soft starter	0 360 s			
start torque [%]	10 100 %			
stopping torque [%]	10 100 %			
torque limitation [%]	20 200 %			
current limiting value [%] adjustable	125 800 %			
breakaway voltage [%] adjustable	40 100 %			
breakaway time adjustable	0 2 s			
number of parameter sets	3			
accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				

• CE marking	Yes			
UL approval	Yes			
	Yes			
CSA approval     product component				
	Von			
HMI-High Feature	Yes			
is supported HMI-High Feature	Yes Ves			
product feature integrated bypass contact system number of controlled phases	Yes			
trip class	3 CLASS 104 / 10E (default) / 20E / 30E: acc. to IEC 60047.4.2			
current unbalance limiting value [%]	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 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	00 1 000 S			
for main current circuit	100 ms			
for control circuit				
	100 ms 0 255 s			
idle time adjustable	690 V			
insulation voltage rated value				
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	8 kV			
blocking voltage of the thyristor maximum service factor	1 800 V			
	1.15			
surge voltage resistance rated value	8 kV			
maximum permissible voltage for safe isolation	COON daga not apply for the mister connection			
between main and auxiliary circuit	690 V; does not apply for thermistor connection			
utilization category acc. to IEC 60947-4-2	AC 53a			
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting			
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz			
reference code acc. to IEC 81346-2	Q 15.02.2018.00:00:00			
Substance Prohibitance (Date) product function	15.02.2018 00:00:00			
	Yes			
<ul> <li>ramp-up (soft starting)</li> <li>ramp down (soft start)</li> </ul>	Yes			
ramp-down (soft stop)     brockowcy pulse	Yes			
breakaway pulse     adjustable surrent limitation				
<ul> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> </ul>	Yes			
	Yes Yes			
<ul><li>pump ramp down</li><li>DC braking</li></ul>	Yes			
-	Yes			
motor heating	Yes			
<ul> <li>slave pointer function</li> <li>trace function</li> </ul>	Yes			
	Yes			
intrinsic device protection				
<ul> <li>motor overload protection</li> </ul>	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			
operating measured value display	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- Feature communication modules			
<ul> <li>firmware update</li> </ul>	Yes			

<ul> <li>removable terminal for control circuit</li> </ul>	Yes				
voltage ramp	Yes				
torque control	Yes				
combined braking	Yes				
analog output	Yes; 4 20 mA (default) / 0 10 V				
programmable control inputs/outputs	Yes				
condition monitoring	Yes				
automatic parameterisation	Yes				
application wizards	Yes				
alternative run-down	Yes				
emergency operation mode	Yes				
reversing operation	Yes				
soft starting at heavy starting conditions	Yes				
Power Electronics					
operational current					
• at 40 °C rated value	370 A				
• at 40 °C rated value minimum	74 A				
• at 50 °C rated value	328 A				
at 60 °C rated value	300 A				
operational current at inside-delta circuit					
• at 40 °C rated value	641 A				
• at 50 °C rated value	568 A				
at 60 °C rated value	519 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					
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	110 kW				
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 kW				
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	200 kW				
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	355 kW				
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	250 kW				
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	450 kW				
• at 690 V 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	111 W				
• at 50 °C after startup	98 W				
• at 60 °C after startup	90 W				
power loss [W] at AC at current limitation 350 %	E 500 M/				
• at 40 °C during startup	5 563 W				
• at 50 °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					
type of voltage of the control supply voltage	AC				
control supply voltage at AC	110 250 \/				
• at 50 Hz	110 250 V				
• at 60 Hz	110 250 V				

relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
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
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	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
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	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	
• with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m
• with conductor cross-section = 1.5 mm <sup>2</sup> maximum	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
type of connectable conductor cross-sections	

<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm <sup>2</sup> )				
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)				
type of connectable conductor cross-sections					
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)				
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)				
<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 core end processing</li> </ul>	2x (24 16)				
wire length					
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m				
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m				
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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					
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C				
environmental category					
• 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 mus 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/ Protocol communication module is supported					
	Yes				
communication module is supported	Yes Yes				
communication module is supported <ul> <li>PROFINET standard</li> </ul>					
communication module is supported <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> </ul>	Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V	Yes Yes Yes Yes				
communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings UL/CSA ratings manufacturer's article number • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta	Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA				
communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings Manufacturer's article number of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up	Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA				
communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA				
communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU PROFIBUS UL/CSA ratings UL/CSA ratings manufacturer's article number of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL Operating power [hp] for 3-phase motors	Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA				
communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA 100 hp				
<ul> <li>communication module is supported         <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings         <ul> <li>according to UL</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 572/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 572/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA 100 hp 125 hp				
<ul> <li>communication module is supported         <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings         <ul> <li>anufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA				
<ul> <li>communication module is supported <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings <ul> <li>manufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA 100 hp 125 hp				
<ul> <li>communication module is supported <ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings <ul> <li>manufacturer's article number</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>asable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 575/600 V at 50 °C rated value</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Type: Class J / L, max. 1200 A; lq = 18 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 100 kA Type: Class J / L, max. 1200 A; lq = 100 kA 100 hp 125 hp 250 hp 300 hp				

	inside-delta circuit at 5	0 °C rated	450 ł	450 hp				
	inside-delta circuit at 5	0 °C rated	600 ł	ıp				
	value		P300	1-B300				
Safety related data	contact rating of auxiliary contacts according to UL		R300-B300					
-					IP00; IP20 with cover			
	protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529				act from the front with a	over		
•		0020	Ŭ	finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2				
ATEX								
certificate of suitabil	lity		_					
ATEX	iity		Yes	Yes				
IECEx			Yes					
	FX directive 2014/34/F	:U		BVS 18 ATEX F 003 X				
	according to ATEX directive 2014/34/EU  type of protection according to ATEX directive 2014/34/EU		II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]					
hardware fault tolera	It tolerance acc. to IEC 61508 relating to		0					
PFDavg with low dep relating to ATEX	with low demand rate acc. to IEC 61508 to ATEX		0.008					
PFHD with high dem to ATEX	PFHD with high demand rate acc. to EN 62061 relating		0.0000005 1/h					
Safety Integrity Leve to ATEX	Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX		SIL1					
	T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX		3 у					
Certificates/ approval	s							
General Product Ap	proval				EMC	For use in hazard- ous locations		
(SP) CM	CCC			EAC	RCM	IECEx		
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping				
KEx ATEX	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyd's Register uis		
other								

**Confirmation** 

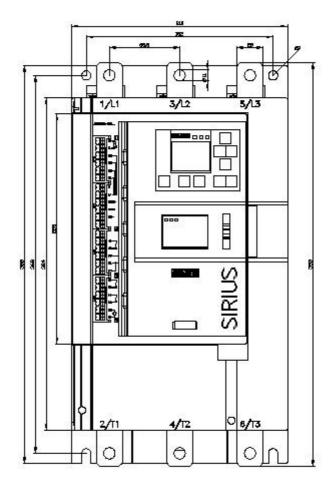
Further information

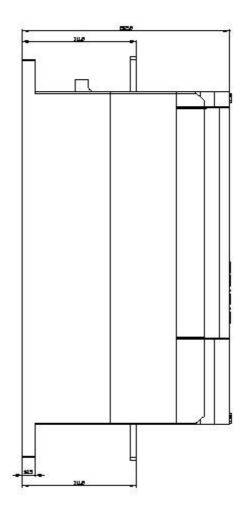
Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5546-2HA16 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-2HA16 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-2HA16 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5546-2HA16&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-2HA16/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5546-2HA16&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







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