## **SIEMENS**

Data sheet 3RW5544-2HA16



SIRIUS soft starter 200-690 V 250 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>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	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>	3NE1331-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3335; Type of coordination 2, Iq = 65 kA

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

	F 0/
accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	V
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	
for main current circuit	100 ms
<ul> <li>for control circuit</li> </ul>	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
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
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	
•	Yes
• ramp-up (soft starting)	Yes Yes
<ul><li>ramp-up (soft starting)</li><li>ramp-down (soft stop)</li></ul>	
<ul><li>ramp-up (soft starting)</li><li>ramp-down (soft stop)</li><li>breakaway pulse</li></ul>	Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> </ul>	Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> </ul>	Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> </ul>	Yes Yes Yes Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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	Feature communication modules
• firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	250 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	50 A
<ul> <li>at 50 °C rated value</li> </ul>	220 A
at 60 °C rated value	200 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	433 A
<ul> <li>at 50 °C rated value</li> </ul>	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	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	75 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	132 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	132 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	250 kW
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	160 kW
• at 500 V at inside-delta circuit at 40 °C rated value	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	75.14
• 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 %	3 806 W
• at 40 °C during startup	3 806 W 3 176 W
<ul> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	2 787 W
type of the motor protection	L I GI VV
	Electronic tripping in the event of thermal overload of the motor
	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
	Electronic, tripping in the event of thermal overload of the motor  AC

• 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
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	40
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards     at the side	75 mm 5 mm
• at the side weight without packaging	
Connections/ Terminals	10.2 kg
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	10 11111
with conductor cross-section = 0.5 mm² maximum	
J G. G	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	50 m 150 m

with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
<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)
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)
wire length	
<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
for auxiliary and control contacts with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
• EtherNet/IP	Yes
<ul> <li>Modbus RTU</li> </ul>	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
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
usable for High Faults at 460/480 V at insidedelta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
usable for Standard Faults at 575/600 V  according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
usable for High Faults at 575/600 V at insidedelta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
• of the fuse	

- usable for Standard Faults up to 575/600 V Type: Class J / L, max. 800 A; Iq = 18 kA according to UL — usable for High Faults up to 575/600 V Type: Class J / L, max. 800 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class J / L, max. 800 A; Iq = 18 kA circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up Type: Class J / L, max. 800 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value 60 hp at 220/230 V at 50 °C rated value 75 hp • at 460/480 V at 50 °C rated value 150 hp • at 575/600 V at 50 °C rated value 200 hp • at 200/208 V at inside-delta circuit at 50 °C rated 125 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 150 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 300 hp value at 575/600 V at inside-delta circuit at 50 °C rated 350 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2 electromagnetic compatibility certificate of suitability ATEX Yes IFCFx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] hardware fault tolerance acc. to IEC 61508 relating to **ATEX** PFDavg with low demand rate acc. to IEC 61508 0.008 relating to ATEX 0.0000005 1/h PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL<sub>1</sub> T1 value for proof test interval or service life acc. to 3 y IEC 61508 relating to ATEX Certificates/ approvals For use in hazard-**General Product Approval EMC** ous locations













For use in hazardous locations Declaration of Conformity

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







## 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=3RW5544-2HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5544-2HA16

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-2HA16

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5544-2HA16&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

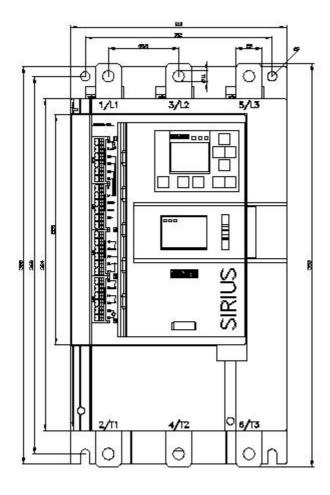
https://support.industry.siemens.com/cs/ww/en/ps/3RW5544-2HA16/char

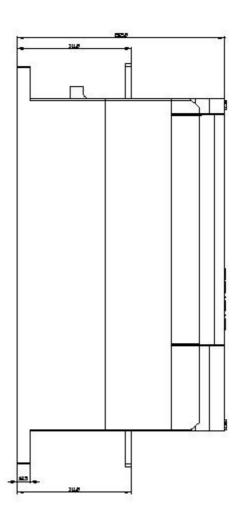
Characteristic: Installation altitude

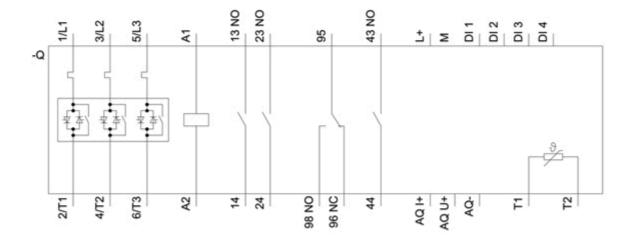
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5544-2HA16&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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