# **SIEMENS**

product brand name

product category

Data sheet 3RW5525-3HA14

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC spring-type terminals





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
• of communication module PROFINET high-feature usable	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>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3830-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3830-6; 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>	3NE1022-0; 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>	3NE3227; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes

CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	10 00 //
• 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 protective separation	O IV
between main and auxiliary circuit	480 V; does not apply for thermistor connection
between main and auxiliary circuit     shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	
utilization category according to IEC 60947-4-2	AC 53a Q
reference code according to IEC 81346-2	02/15/2018
Substance Prohibitance (Date)  SVHC substance name	Lead - 7439-92-1
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3
product function	
• ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
breakaway pulse  - distribution  - distri	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down     DC hypling	Yes Yes
DC braking     motor booting	Yes
motor heating     a place pointer function	
slave pointer function     trace function	Yes
trace function     intrinsic device protection	Yes Yes
<ul><li>intrinsic device protection</li><li>motor overload protection</li></ul>	Yes; Full motor protection (thermistor motor protection and electronic motor
▼ motor overload protection	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
<ul> <li>communication function</li> </ul>	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-loaded terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
• firmware update	Yes

<ul> <li>removable terminal for control circuit</li> </ul>	Yes
voltage ramp	Yes
• torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
at 40 °C rated value	63 A
at 40 °C rated value minimum	13 A
• at 50 °C rated value	55.5 A
• at 60 °C rated value	50.5 A
operational current at inside-delta circuit  • at 40 °C rated value	109 A
at 40 °C rated value      at 50 °C rated value	96 A
at 50 °C rated value      at 60 °C rated value	96 A 87.5 A
operating voltage	01.3 A
• rated value	200 480 V
at inside-delta circuit rated value	200 480 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	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	30 kW
at 400 V at inside-delta circuit at 40 °C rated value	55 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	19 W
·	19 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> </ul>	17 W
power loss [W] at AC at current limitation 350 %	IO W
• at 40 °C during startup	1 056 W
• at 50 °C during startup	732 W
• at 60 °C during startup	647 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	
● 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	10 %
AC at 50 Hz	

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	180 mA
inrush current by closing the bypass contacts maximum	0.8 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
<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	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
<ul><li>forwards</li></ul>	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	75 mm
at the side	5 mm
weight without packaging	5.9 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit	box terminal
• for control circuit	and a land of Armain als
	spring-loaded terminals
width of connection bar maximum	spring-loaded terminals 25 mm
width of connection bar maximum wire length for thermistor connection	
wire length for thermistor connection	25 mm
wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	25 mm 50 m
<ul> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	25 mm 50 m 150 m
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main	25 mm 50 m 150 m
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal	25 mm  50 m  150 m  250 m
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point solid  • using the front clamping point finely stranded with core	25 mm  50 m  150 m  250 m  1x (2.5 16 mm²)
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point solid  • using the front clamping point finely stranded with core end processing	25 mm  50 m  150 m  250 m  1x (2.5 16 mm²)  1x (2.5 50 mm²)
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point solid  • using the front clamping point finely stranded with core end processing  • using the front clamping point stranded	25 mm  50 m  150 m  250 m  1x (2.5 16 mm²)  1x (2.5 50 mm²)  1x (10 70 mm²)
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point solid  • using the front clamping point finely stranded with core end processing  • using the front clamping point stranded  • using the back clamping point solid	25 mm  50 m  150 m  250 m  1x (2.5 16 mm²)  1x (2.5 50 mm²)  1x (10 70 mm²)  1x (2.5 16 mm²)
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections for main contacts for box terminal  • using the front clamping point solid  • using the front clamping point finely stranded with core end processing  • using the front clamping point stranded  • using the back clamping point solid  • r box terminal using the back clamping point	25 mm  50 m  150 m  250 m  1x (2.5 16 mm²)  1x (2.5 50 mm²)  1x (10 70 mm²)  1x (2.5 16 mm²)  1x (2.5 16 mm²)

using the back clamping point finely stranded with core	1x (2.5 50 mm²)
end processing  • using the back clamping point stranded	1x (10 70 mm²)
type of connectable conductor cross-sections	(\dagger )
for control circuit solid	2x (0.25 1.5 mm²)
for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
for AWG cables for control circuit solid	2x (0.23 1.3 mm) 2x (24 16)
<ul> <li>for 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
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 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	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental factorint	
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request
Siemens Eco Profile (SEP)	
Siemens Eco Profile (SEP)  EMC emitted interference	
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol	
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported	acc. to IEC 60947-4-2: Class A, Class B on request
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard	acc. to IEC 60947-4-2: Class A, Class B on request Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature	acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP	acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU	yes Yes Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS	Yes Yes Yes Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP	Yes Yes Yes Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings	Yes Yes Yes Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  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 Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — 60/480 V at inside-delta circuit according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — 75/600 V at inside-delta circuit according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — 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	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — 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	Yes
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — at 460/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard 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
Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker usable for Standard Faults  — at 460/480 V according to UL  — 60/480 V according to UL  — 60/480 V at inside-delta circuit according to UL  — at 575/600 V according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — at 575/600 V at inside-delta circuit according to UL  — usable for Standard 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 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

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a		
at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value 75 hp  contact rating of auxiliary contacts according to UL R300-B300  Electrical Safety  protection class IP on the front according to IEC 60529 IP00; IP20 with cover  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front with cover  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to  30 hp	<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	20 hp
at 220/230 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     R300-B300  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508  relating to ATEX  PFDavg with low demand rate according to IEC 61508  relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to  30 hp  75 hp  76 hp  77 hp  77 hp  77 hp  78 h	<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	40 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value     contact rating of auxiliary contacts according to UL     Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to  3 a	<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	30 hp
contact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to  R300-B300  R300-B300  R300-B300  SIL1  SIL1  SE-7 1/h  O.008	• at 220/230 V at inside-delta circuit at 50 °C rated value	30 hp
Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	• at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp
protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	contact rating of auxiliary contacts according to UL	R300-B300
touch protection on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	Electrical Safety	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	protection class IP on the front according to IEC 60529	IP00; IP20 with cover
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a	ATEX	
relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a		SIL1
relating to ATEX  hardware fault tolerance according to IEC 61508 relating to ATEX  T1 value for proof test interval or service life according to 3 a		5E-7 1/h
ATEX  T1 value for proof test interval or service life according to 3 a		0.008
		0
IEC 61508 relating to ATEX	T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	certificate of suitability	
• ATEX Yes	• ATEX	Yes
• IECEx Yes	• IECEx	Yes
• according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X	<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU  II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]		

#### Approvals Certificates

## **General Product Approval**





Confirmation







General Product Approval

EMV

For use in hazardous locations

**Test Certificates** 





<u>KC</u>





Type Test Certificates/Test Report

Marine / Shipping









Confirmation

other



**Environment** 

#### Environment



Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5525-3HA14}$ 

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5525-3HA14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW55

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW5525-3HA14&lang=en

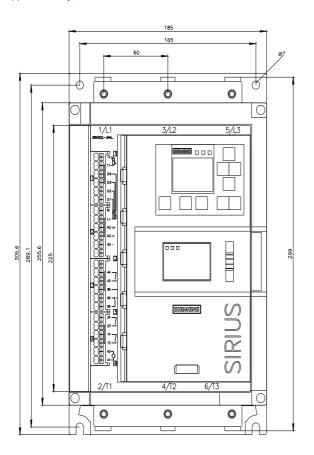
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HA14/char

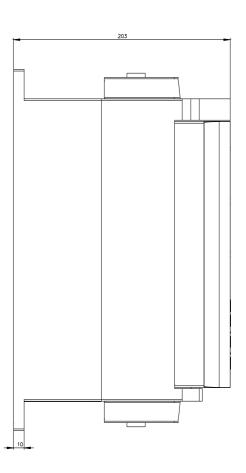
Characteristic: Installation altitude

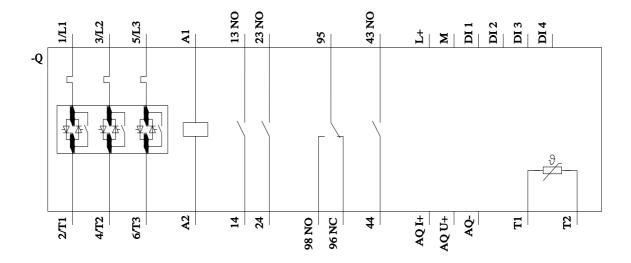
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5525-3HA14\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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