# **SIEMENS**

Data sheet 3RW5545-6HA14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC Screw 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
• 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>	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>	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, lq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	2x3NA3365-6; Type of coordination 1, lq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1334-2; 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>	3NE3336; 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> <li>UL approval</li> </ul>	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 50 /6
• 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	490 V: doop not apply for thermister connection
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date) SVHC substance name	02/15/2018 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	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
breakaway pulse	Yes
adjustable current limitation	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
slave pointer function	Yes
• trace function	Yes
• intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / 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	Yes
spring-loaded terminal	No
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
<ul><li>voltage ramp</li></ul>	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
<ul> <li>reversing operation</li> </ul>	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>	315 A
• at 40 °C rated value minimum	63 A
• at 50 °C rated value	279 A
at 60 °C rated value	255 A
operational current at inside-delta circuit	
• at 40 °C rated value	546 A
• at 50 °C rated value	483 A
● at 60 °C rated value	442 A
operating voltage	
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 inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	90 kW
• at 230 V at inside-delta circuit at 40 °C rated value	160 kW
• at 400 V at 40 °C rated value	160 kW
• at 400 V at inside-delta circuit at 40 °C rated value	315 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	95 W
• at 50 °C after startup	84 W
● at 60 °C after startup	77 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	4 966 W
<ul> <li>at 50 °C during startup</li> </ul>	4 153 W
at 60 °C during startup	3 646 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	440 050 //
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at	-15 %
AC at 50 Hz	
AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %

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
inrush current by closing the bypass contacts maximum	0.87 A
inrush current peak at application of control supply voltage	43 A
maximum	1.6 ms
duration of inrush current peak at application of control supply voltage	1.0 1115
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 digital outputs	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	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
	203 mm
depth	
depth required spacing with side-by-side mounting	
<u> </u>	10 mm
required spacing with side-by-side mounting	
required spacing with side-by-side mounting  • forwards	10 mm
required spacing with side-by-side mounting  • forwards  • backwards	10 mm 0 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging	10 mm 0 mm 100 mm 75 mm 5 mm
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals	10 mm 0 mm 100 mm 75 mm 5 mm
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  wire length for thermistor connection	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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  • with conductor cross-section = 2.5 mm² maximum	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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 DIN cable lug for main contacts stranded	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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 DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²) 2x (70 240 mm²)
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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 DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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  • with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables for control circuit solid	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m  2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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 DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables for control circuit solid  wire length	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)
required spacing with side-by-side mounting	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)
required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side  weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  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 DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables for control circuit solid  wire length	10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)

<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</li> </ul>	7 10.3 lbf·in
terminals	
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	10 iii 30 C
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
adming operation according to IEC 00721	(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
3 3	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 footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	400. 10 1EO 00041 4 E. 01400 A
communication module is supported	V
PROFINET standard	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
<ul><li>PROFIBUS</li></ul>	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker usable for Standard Faults	
— at 460/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Ig = 18 kA
— 60/480 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA
— at 460/480 V at inside-delta circuit according to UL	
Ŭ.	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
— at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
<ul> <li>75/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
<ul> <li>— at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; Iq = 18 kA
of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1000 A; Iq = 18 kA
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1000 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 1000 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. 1000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	75 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	100 hp
• at 460/480 V at 50 °C rated value	200 hp
at 200/208 V at inside-delta circuit at 50 °C rated value	150 hp
at 220/230 V at inside delta circuit at 50 °C rated value	200 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	400 hp
	·
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	ID00-ID00
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	SIL1
PFHD with high demand rate according to IEC 61508	5E-7 1/h

relating to ATEX	
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<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 db 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5545-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-6HA14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-6HA14">https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-6HA14</a>

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5545-6HA14\&lang=en}}$ 

Characteristic: Tripping characteristics, I²t, Let-through current

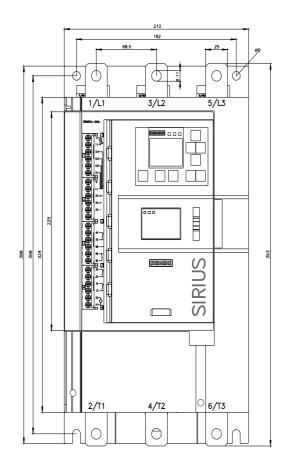
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-6HA14/char

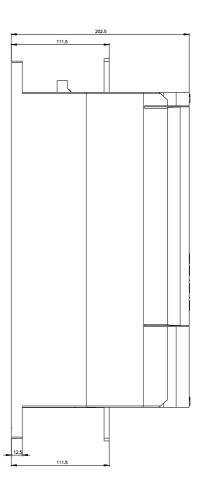
Characteristic: Installation altitude

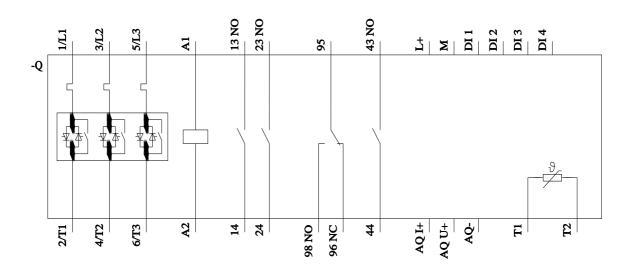
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545-6HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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