SIEMENS

product brand name

product category

Data sheet 3RW5535-6HA04

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 143 A, 24 V AC/DC Screw terminals

product designation	Soft starter			
product type designation	3RW55			
manufacturer's article number				
 of high feature HMI module usable 	3RW5980-0HF00			
 of communication module PROFINET standard usable 	3RW5980-0CS00			
 of communication module PROFINET high-feature usable 	3RW5950-0CH00			
 of communication module PROFIBUS usable 	3RW5980-0CP00			
 of communication module Modbus TCP usable 	3RW5980-0CT00			
 of communication module Modbus RTU usable 	3RW5980-0CR00			
 of communication module Ethernet/IP 	3RW5980-0CE00			
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1227-0; Type of coordination 2, Iq = 65 kA			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3233; 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			
accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				
CE marking	Yes			

UL approval	Yes			
CSA approval	Yes			
product component	100			
HMI-High Feature	Yes			
	Yes			
is supported HMI-High Feature Product feature integrated by page contest system.				
product feature integrated bypass contact system number of controlled phases	Yes			
trip class	3 3 CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60047 4.2			
· ·	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2			
current unbalance limiting value [%]	_ 10 60 % 10 95 %			
ground-fault monitoring limiting value [%] buffering time in the event of power failure	10 93 %			
• for main current circuit	100 ma			
for control circuit	100 ms			
idle time adjustable	100 ms			
insulation voltage rated value	0 255 s			
degree of pollution	480 V 3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 400 V			
service factor	1.15			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation	O KV			
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			
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz			
recovery time after overload trip adjustable	60 1 800 s			
utilization category acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
product function	10.02.2010 00.00.00			
• ramp-up (soft starting)	Yes			
• ramp-down (soft stop)	Yes			
breakaway pulse	Yes			
adjustable current limitation	Yes			
creep speed in both directions of rotation	Yes			
• pump ramp down	Yes			
DC braking	Yes			
motor heating	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.			
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick			
• inside-delta circuit	Yes			
• 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	Yes			
spring-type terminal	No			
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-			
	Feature communication modules			

a firmwara undata	Yes			
firmware update				
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			
emergency operation mode	Yes			
reversing operation	Yes			
soft starting at heavy starting conditions	Yes			
Power Electronics				
operational current				
• at 40 °C rated value	143 A			
at 40 °C rated value minimum	29 A			
• at 50 °C rated value	128 A			
at 60 °C rated value	118 A			
operational current at inside-delta circuit				
• at 40 °C rated value	248 A			
• at 50 °C rated value	222 A			
at 60 °C rated value	204 A			
operating voltage	000 400 14			
• 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	37 kW			
 at 230 V at inside-delta circuit at 40 °C rated value 	75 kW			
 at 400 V at 40 °C rated value 	75 kW			
at 400 V at inside-delta circuit at 40 °C rated value	132 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	42.14/			
at 40 °C after startup at 50 °C after startup	43 W			
at 50 °C after startup at 60 °C after startup	38 W			
• at 60 °C after startup	35 W			
power loss [W] at AC at current limitation 350 %	2 115 W			
at 40 °C during startup	2 115 W			
 at 40 °C during startup at 50 °C during startup 	1 795 W			
 at 40 °C during startup at 50 °C during startup at 60 °C during startup 	1 795 W 1 593 W			
 at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection 	1 795 W			
at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control	1 795 W 1 593 W Electronic, tripping in the event of thermal overload of the motor			
 at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage 	1 795 W 1 593 W			
at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	1 795 W 1 593 W Electronic, tripping in the event of thermal overload of the motor AC/DC			
at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value	1 795 W 1 593 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V			
at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value	1 795 W 1 593 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V 24 V			
at 40 °C during startup at 50 °C during startup at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value	1 795 W 1 593 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V			

relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %		
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %		
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %		
control supply voltage frequency	50 60 Hz		
relative negative tolerance of the control supply	-10 %		
voltage frequency			
relative positive tolerance of the control supply voltage frequency	10 %		
control supply voltage			
at DC rated value	24 V		
relative negative tolerance of the control supply voltage at DC	-20 %		
relative positive tolerance of the control supply voltage at DC	20 %		
control supply current in standby mode rated value	440 mA		
holding current in bypass operation rated value	870 mA		
locked-rotor current at close of bypass contact maximum	6.3 A		
inrush current peak at application of control supply voltage maximum	7.5 A		
duration of inrush current peak at application of control supply voltage	20 ms		
design of the overvoltage protection	Varistor		
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply		
Inputs/ Outputs			
number of digital inputs	4		
parameterizable	4		
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick		
number of digital outputs	4		
number of digital outputs parameterizable	3		
number of digital outputs not parameterizable	3		
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)		
	1		
number of analog outputs	1		
	1 3 A		
number of analog outputs switching capacity current of the relay outputs			
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 A		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 A		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 A 1 A		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 8.5 kg		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth 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	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 8.5 kg		
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth 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	3 A 1 A Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 8.5 kg		

 with conductor cross-section = 1.5 mm² maximum 	150 m		
• with conductor cross-section = 2.5 mm² maximum	250 m		
type of connectable conductor cross-sections			
 for DIN cable lug for main contacts stranded 	2x (16 95 mm²)		
for DIN cable lug for main contacts finely stranded	2x (25 120 mm²)		
type of connectable conductor cross-sections			
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
processing			
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)		
wire length	000		
between soft starter and motor maximum	800 m		
at the digital inputs at DC maximum	1 000 m		
tightening torque			
for main contacts with screw-type terminals	10 14 N·m		
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m		
tightening torque [lbf·in]			
for main contacts with screw-type terminals	89 124 lbf·in		
for auxiliary and control contacts with screw-type	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			
 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		
a during storage and to IEC 60721	1V6 (aply accessional condensation), 1C2 (no self-mist), 1C2 (cond-must		
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
 during storage acc. to IEC 60721 during transport acc. to IEC 60721 	not get inside the devices), 1M4		
during transport acc. to IEC 60721	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during transport acc. to IEC 60721 EMC emitted interference	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A		
• during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes		
during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes		
• during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes		
during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes		
during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		
during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA		
during transport acc. to IEC 60721 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 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		
during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		
during transport acc. to IEC 60721 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	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA		
• during transport acc. to IEC 60721 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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at	not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		

according to UL					
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 350 A; Iq = 100 kA				
usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA				
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
 at 200/208 V at 50 °C rated value 	40 hp				
 at 220/230 V at 50 °C rated value 	40 hp				
 at 460/480 V at 50 °C rated value 	100 hp				
 at 200/208 V at inside-delta circuit at 50 °C rated value 	75 hp				
 at 220/230 V at inside-delta circuit at 50 °C rated value 	75 hp				
• at 460/480 V at inside-delta circuit at 50 °C rated value	150 hp				
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				
electromagnetic compatibility	acc. to IEC 60947-4-2				
ATEX					
certificate of suitability					
• ATEX	Yes				
• IECEx	Yes				
 according to ATEX directive 2014/34/EU 	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]				
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0				
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008				
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h				
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 y				
Certificates/ approvals					
Goneral Product Approval		EMC	For use in hazard-		
General Product Approval		LIVIC	ous locations		













For use in hazard-ous locations

Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







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=3RW5535-6HA04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5535-6HA04}}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5535-6HA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5535-6HA04&lang=en

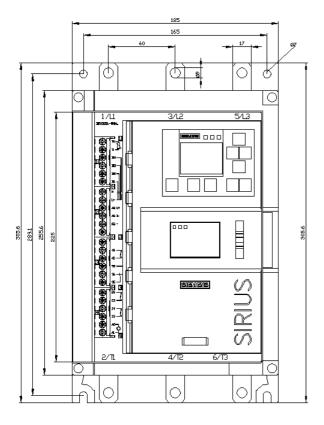
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5535-6HA04/char

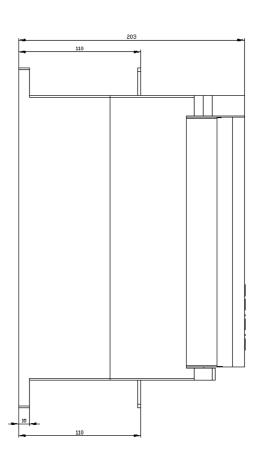
Characteristic: Installation altitude

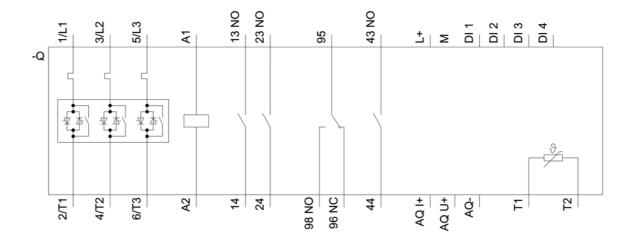
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5535-6HA04\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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