SIEMENS

Data sheet 3RW5558-6HA06

SIRIUS



SIRIUS soft starter 200-690 V 1280 A, 24 V AC/DC Screw terminals

Figure similar

product brand name

product brane	
product category	Hybrid switching devices
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 	3VA2716-7AB05-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NB3357-1KK26; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3x3NE3340-8; 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

# HIMI-High Feature		_
* is supported HMI-High Feature Yes Product feature integrated bypass contact system who or controlled phases 1	product component	
mumber of controlled phases number of controlled phases trip class CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current unbalance limiting value (%) 10. 60 % recovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for control circuit • for control circuit • for control circuit ide time adjustable • for control circuit • for control control circui	9	
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recovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for control circ	current unbalance limiting value [%]	10 60 %
buffering time in the event of power failure • for main current circuit • for main c	ground-fault monitoring limiting value [%]	10 95 %
• for main current circuit • for centrol circuit 100 ms Idle time adjustable 0 255 s insulation voltage rated value degree of pollution 3, acc. to IEC 60947-4-2 impubes voltage rated value 8 kV blocking voltage rated value 9 kV blocking voltage resistance rated value 9 kV maximum permissible voltage for safe isolation • between main and auxiliary circuit 4 certain control of the ministration category acc. to IEC 60947-4-2 8 kC Substance Prohibitance (Date) 11.02.2019 00:00:00 • ramp-up (soft starting) • ramp-down (soft stop) • rereakaway pulse • adjustable current limitation • pump ramp down • DC braking • motor heating • motor vertoad protection • rate function • vese quitation of the mistor motor protection • vesification of the mistor motor protection • vesification of the mistor motor protection • randour of the mistor motor protection • randour vertoad pro		60 1 800 s
• for control circuit 100 ms 100		
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Insulation voltage rated value 690 V degree of pollution 3, acc. to IEC 60947-4-2 impulse voltage rated value 8 kV 1800 V service factor 1,15 surge voltage resistance rated value 8 kV maximum permissible voltage for safe isolation 690 V; does not apply for thermistor connection 1,15 shock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration for his call contact (Date of Hz. 2 g up to 500 Hz 2 g up		
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surge voltage resistance rated value maximum permissible voltage for safe Isolation	blocking voltage of the thyristor maximum	1 800 V
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Feature communication modules • firmware update • removable terminal for control circuit • voltage ramp Feature communication modules Yes Yes	 spring-type terminal 	No
 removable terminal for control circuit voltage ramp Yes 	PROFlenergy	
• voltage ramp Yes	• firmware update	Yes
	 removable terminal for control circuit 	Yes
torque control 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	1 280 A
at 40 °C rated value minimum	256 A
at 50 °C rated value	1 139 A
at 60 °C rated value	1 030 A
operational current at inside-delta circuit	1 000 / 1
at 40 °C rated value	2 217 A
at 50 °C rated value	1 973 A
at 60 °C rated value	1 784 A
operating voltage	
rated value	200 690 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
	10 %
relative positive tolerance of the operating voltage 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	
 at 230 V at 40 °C rated value 	400 kW
• at 230 V at inside-delta circuit at 40 °C rated value	710 kW
 at 230 V at inside-delta circuit at 40 °C rated value at 400 V at 40 °C rated value 	710 kW 710 kW
• at 400 V at 40 °C rated value	710 kW
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	710 kW 1 200 kW
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 	710 kW 1 200 kW 900 kW
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 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	710 kW 1 200 kW 900 kW 1 500 kW 1 200 kW 50 Hz 60 Hz -10 %
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC	710 kW 1 200 kW 900 kW 1 500 kW 1 200 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le
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 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 40 °C during startup at 60 °C during startup 	710 kW 1 200 kW 900 kW 1 500 kW 1 500 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 384 W 337 W 275 W 23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup of 60 °C during startup 	710 kW 1 200 kW 900 kW 1 500 kW 1 500 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 384 W 337 W 275 W 23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °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 	710 kW 1 200 kW 900 kW 1 500 kW 1 200 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 384 W 337 W 275 W 23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 60 °C during startup at 50 °C during startup at 60 °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 relative negative tolerance of the control supply 	710 kW 1 200 kW 900 kW 1 500 kW 1 200 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 384 W 337 W 275 W 23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor
 at 400 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 60 °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 	710 kW 1 200 kW 900 kW 1 500 kW 1 200 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 384 W 337 W 275 W 23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V 24 V

voltage at AC at 50 Hz	
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 voltage frequency	-10 %
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	1 100 mA
locked-rotor current at close of bypass contact maximum	6.7 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	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	
at AC-15 at 250 V rated value	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	764 mm
width	478 mm
depth	241 mm
required spacing with side-by-side mounting	
forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	61 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for main current circuit for control circuit	busbar connection screw-type terminals
• for control circuit	screw-type terminals

• 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 (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 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	4., (00 40) 0., (00 44)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	000
between soft starter and motor maximum at the digital inputs at DC gravings.	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	20 25 N
for main contacts with screw-type terminals	20 35 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	177 310 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	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
	above
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
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices) 1M4
during transport acc. to IEC 60721	not get inside the devices), 1M4
during transport acc. to IEC 60721 EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	
EMC emitted interference Communication/ Protocol	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference Communication/ Protocol communication module is supported	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
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 the fuse	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
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 the fuse — usable for Standard Faults up to 575/600 V according to UL	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
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 the fuse — usable for Standard Faults up to 575/600 V	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
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 the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V	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
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 the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta	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
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 the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up	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
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 the fuse — usable for Standard Faults 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	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
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 the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors	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
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 the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value	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 Class J / L, max. 3000 A; Iq = 85 kA Type: Class J / L, max. 3000 A; Iq = 100 kA Type: Class J / L, max. 3000 A; Iq = 85 kA Type: Class J / L, max. 3000 A; Iq = 100 kA Type: Class J / L, max. 3000 A; Iq = 100 kA
EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU PROFIBUS UL/CSA ratings manufacturer's article number of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value	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
EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU PROFIBUS UL/CSA ratings manufacturer's article number of the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value	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 Class J / L, max. 3000 A; Iq = 85 kA Type: Class J / L, max. 3000 A; Iq = 100 kA Type: Class J / L, max. 3000 A; Iq = 85 kA Type: Class J / L, max. 3000 A; Iq = 100 kA Type: Class J / L, max. 3000 A; Iq = 100 kA
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 the fuse usable for Standard Faults up to 575/600 V according to UL usable for High Faults up to 575/600 V according to UL usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value	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

value	
 at 460/480 V at inside-delta circuit at 50 °C rated value 	1 700 hp
at 575/600 V at inside-delta circuit at 50 °C rated value	2 200 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
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

General Product Approval









EMC



For use in hazard-

ous locations

For use in hazardous locations **Declaration of Conformity**

Test Certificates

Marine / Shipping

other





Type Test Certificates/Test Report





Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5558-6HA06

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5558-6HA06}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA06

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5558-6HA06&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

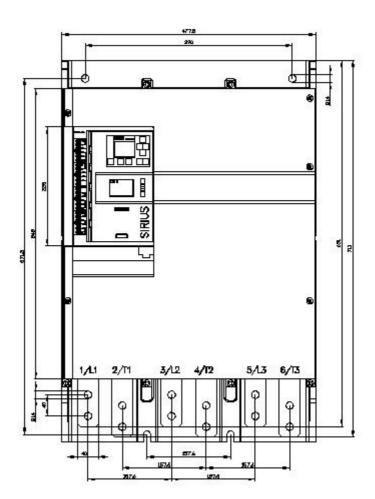
https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA06/char

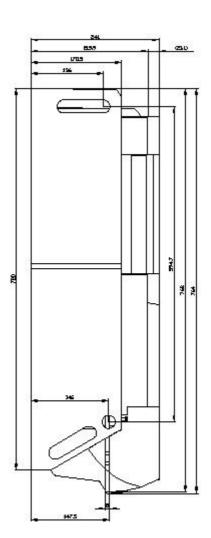
Characteristic: Installation altitude

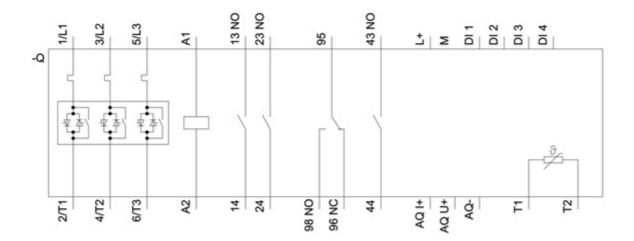
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5558-6HA06&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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