SIEMENS

Data sheet

3RW5553-2HA16



SIRIUS soft starter 200-690 V 720 A, 110-250 V AC Spring-type terminals

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3VA2510-6HN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NB3351-1KK26: Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NC3343-1U; Type of coordination 2, Iq = 65 kA</u>
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 %

elemanian Yes • UL approval Yes • CSA approval Yes • Product component Yes • MM-High Feature Yes • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • Corrent circuit ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Feature • ISM supported HM-High Feature ISM supported HM-High Fe	certificate of suitability	_
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product component HMI-High Feature Yes supported HMI-High Feature Yes current univer of controlled phases CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current univer of controlled phases CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current univer of control default 0 69 % ground-fault monitoring limiting value [%] 10 69 % recovery time after overload time jadjustable of control circuit 100 ms of control circuit 600 V; does not apply for themistor conneciton utititizion category		
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motor heatingYesslave pointer functionYestrace functionYesintrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYescommunication functionYesevent listYeserror logbookYesvia software parameterizableYesvia software configurableYesscrew terminalNoespring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
slave pointer functionYestrace functionYesintrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYesoperating measured value displayYeserror logbookYesvia software parameterizableYesvia software configurableYesexerw terminalNoespring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	5	
• trace functionYes• intrinsic device protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• spring-type terminalNo• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	-	
intrinsic device protectionYesmotor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclickinside-delta circuitYes; Only up to 600 V operating voltageauto-RESETYesmanual RESETYesremote resetYescommunication functionYesoperating measured value displayYesevent listYesvia software parameterizableYesvia software configurableYesscrew terminalNospring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		Yes; Full motor protection (thermistor motor protection and electronic
• inside-delta circuitYes; Only up to 600 V operating voltage• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	 evaluation of thermistor motor protection 	
• auto-RESETYes• manual RESETYes• remote resetYes• communication functionYes• operating measured value displayYes• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• screw terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-		
 remote reset remote reset communication function operating measured value display operating measured value display ves event list error logbook via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	auto-RESET	
 communication function yes operating measured value display event list event list Yes error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	manual RESET	Yes
• operating measured value displayYes• event listYes• error logbookYes• ria software parameterizableYes• via software configurableYes• sorew terminalNo• spring-type terminalYes; in connection with the PROFINET Standard and PROFINET High-	remote reset	Yes
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• via software configurableYes• screw terminalNo• spring-type terminalYes• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 communication function 	Yes
• event listYes• error logbookYes• via software parameterizableYes• via software configurableYes• via software configurableYes• screw terminalNo• spring-type terminalYes• PROFlenergyYes; in connection with the PROFINET Standard and PROFINET High-	 operating measured value display 	Yes
 via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 		Yes
 via software parameterizable via software configurable via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	error logbook	Yes
 via software configurable screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 	0	
 screw terminal spring-type terminal PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- 		Yes
• PROFIenergy Yes; in connection with the PROFINET Standard and PROFINET High-	_	No
• PROFINErgy Yes; in connection with the PROFINET Standard and PROFINET High-	 spring-type terminal 	Yes
		Yes; in connection with the PROFINET Standard and PROFINET High-

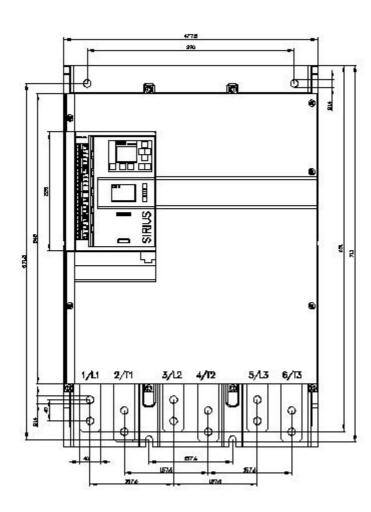
6	
firmware update	Yes
 removable terminal for control circuit 	Yes
voltage ramp	Yes
torque control	Yes
 combined braking 	Yes
 analog output 	Yes; 4 20 mA (default) / 0 10 V
 programmable control inputs/outputs 	Yes
 condition monitoring 	Yes
 automatic parameterisation 	Yes
 application wizards 	Yes
 alternative run-down 	Yes
 emergency operation mode 	Yes
 reversing operation 	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	720 A
 at 40 °C rated value minimum 	144 A
 at 50 °C rated value 	641 A
• at 60 °C rated value	580 A
operational current at inside-delta circuit	
● at 40 °C rated value	1 247 A
 at 50 °C rated value 	1 110 A
• at 60 °C rated value	1 005 A
operating voltage	
 rated value 	200 690 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	200 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	400 kW
 at 400 V at 40 °C rated value 	400 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	710 kW
 at 500 V at 40 °C rated value 	500 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	800 kW
 at 690 V at 40 °C rated value 	
	710 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 1 rated value Operating frequency 2 rated value	50 Hz 60 Hz
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	50 Hz 60 Hz -10 %
Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	50 Hz 60 Hz -10 % 10 %
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 [%]	50 Hz 60 Hz -10 %
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W
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	50 Hz 60 Hz -10 % 10 % Relative to set le 216 W 170 W
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W
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 after startup • at 60 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 W
Operating frequency 1 rated valueOperating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum 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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 W
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	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 216 W 170 W 139 W 11 534 W 9 773 W 8 497 W Electronic, tripping in the event of thermal overload of the motor

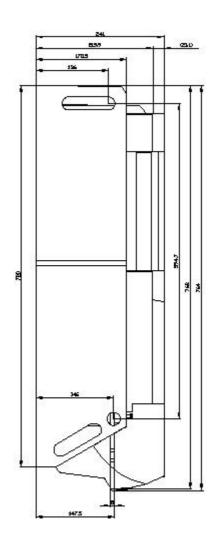
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	210 mA
locked-rotor current at close of bypass contact maximum	1 A
inrush current peak at application of control supply voltage maximum	44 A
duration of inrush current peak at application of control supply voltage	1.7 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	1A
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	45 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	55 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm ² maximum	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 m
• with conductor cross-section = 2.5 mm ² maximum	250 m

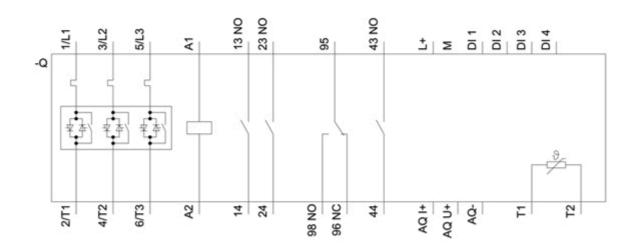
type of connectable conductor cross-sections	
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm²)
type of connectable conductor cross-sections	
 for control circuit solid 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for control circuit solid 	2x (24 16)
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 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 	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 temperatureduring operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 during storage and transport 	-40 +80 °C
environmental category	-40 100 C
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	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
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
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • 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
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
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
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
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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 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	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 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	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 Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 100 kA Type: Class J / L, max. 2000 A; lq = 42 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 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — ousable 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 Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 100 kA Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 42 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 — 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 • 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 Zuppe: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 100 kA Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 42 kA Zuppe: Class J / L, max. 2000 A; lq = 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 — 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 0 perating 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 Zupe: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 100 kA Type: Class J / L, max. 2000 A; lq = 42 kA Type: Class J / L, max. 2000 A; lq = 42 kA Zupe: Class J / L, max. 2000 A; lq = 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 — 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 • 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 Zupe: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 100 kA Type: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 42 kA Zupe: Class J / L, max. 2000 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 High 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 0 perating 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 460/480 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 Zes Yes Zes Yes Yes Zes Yes Zes Zes Zes Zes Zes Zes Zes Zes Zes Z
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 Zupe: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 100 kA Type: Class J / L, max. 2000 A; Iq = 42 kA Type: Class J / L, max. 2000 A; Iq = 42 kA Zupe: Class J / L, max. 2000 A; Iq = 100 kA

value							
 at 460/480 V at value 	inside-delta circuit at 5	0 °C rated	950 h	ıp			
• at 575/600 V at	inside-delta circuit at 5	0 °C rated	1 250) hp			
value	contact rating of auxiliary contacts according to UL						
-	killary contacts accord	ding to UL	R300	D-B300			
Safety related data							
	on the front acc. to IE	C 60529	IP00				
electromagnetic con	npatibility		acc.	to IEC 60947-4-2			
ATEX							
certificate of suitabi	lity						
 ATEX 			Yes				
 IECEx 			Yes				
	EX directive 2014/34/E			18 ATEX F 003 X			
type of protection ac 2014/34/EU	ccording to ATEX dire	ective		G [Ex eb Gb] [Ex db Gb) [Ex db Mb]	o] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db],	
hardware fault tolera ATEX	ance acc. to IEC 6150	8 relating to	0				
PFDavg with low de relating to ATEX	mand rate acc. to IEC	61508	0.008	3			
PFHD with high dem to ATEX	nand rate acc. to EN 6	2061 relating	0.000	00005 1/h			
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating	SIL1				
T1 value for proof te IEC 61508 relating to	est interval or service ATEX	life acc. to	3 у				
Certificates/ approval	s						
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General Product Ap	proval					i or uoo in nuzuru	
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	Cccc			ERE Marine / Shipping	EMC RCM	other	
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http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5553-2HA16&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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