SIEMENS

Data sheet

3RW5517-1HA05



SIRIUS soft starter 200-600 V 38 A, 24 V AC/DC Screw terminals

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 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1820-0; Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1: Type of coordination 2. Iq = 65 kA</u>
eneral 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	
HMI-High Feature	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
recovery time after overload trip adjustable	60 1 800 s
buffering time in the event of power failure	
 for main current circuit 	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	600 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
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
VIDIALIOITTESISLATICE	
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • inside-delta circuit • auto-RESET • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor eletta circuit • auto-RESET • remote reset • communication function • operating measured value display • event list	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function ramp-up (soft starting) ramp-down (soft stop) breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection evaluation of thermistor motor protection inside-delta circuit auto-RESET remote reset communication function operating measured value display event list error logbook via software parameterizable	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes

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 power loss [W] at AC at current limitation 350 % • 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	10 %; Relative to set le 11 W 10 W 9 W 616 W 511 W 447 W Electronic, tripping in the event of thermal overload of the motor
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 power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup • at 60 °C during startup	11 W 10 W 9 W 616 W 511 W 447 W
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 power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup	11 W 10 W 9 W 616 W 511 W
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 power loss [W] at AC at current limitation 350 % • at 40 °C during startup	11 W 10 W 9 W 616 W
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 power loss [W] at AC at current limitation 350 %	11 W 10 W 9 W
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	11 W 10 W
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup	11 W 10 W
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup	11 W
minimum load [%] power loss [W] for rated value of the current at AC	
minimum load [%]	10 %; Relative to set le
	10 %; Relative to set le
relative positive tolerance of the operating frequency	10 %
relative negative tolerance of the operating frequency	-10 %
Operating frequency 2 rated value	60 Hz
Operating frequency 1 rated value	50 Hz
• at 500 V at inside-delta circuit at 40 °C rated value	37 kW
 at 500 V at 40 °C rated value 	22 kW
• at 400 V at inside-delta circuit at 40 °C rated value	30 kW
 at 400 V at 40 °C rated value 	18.5 kW
• at 230 V at inside-delta circuit at 40 °C rated value	18.5 kW
• at 230 V at 40 °C rated value	11 kW
operating power for 3-phase motors	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
inside-delta circuit	40.0/
relative negative tolerance of the operating voltage at	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage	-15 %
 at inside-delta circuit rated value 	200 600 V
rated value	200 600 V
operating voltage	
● at 60 °C rated value	52.8 A
● at 50 °C rated value	58 A
● at 40 °C rated value	65.8 A
operational current at inside-delta circuit	
● at 60 °C rated value	30.5 A
● at 50 °C rated value	33.5 A
• at 40 °C rated value minimum	7.5 A
• at 40 °C rated value	38 A
operational current	
Power Electronics	
soft starting at heavy starting conditions	Yes
reversing operation	Yes
emergency operation mode	Yes
alternative run-down	Yes
application wizards	Yes
automatic parameterisation	Yes
condition monitoring	Yes
programmable control inputs/outputs	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
combined braking	
torque control	Yes
voltage ramp	Yes
removable terminal for control circuit	Yes
firmware update removable terminal for control circuit	
e firmularo undato	Feature communication modules Yes
	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
 PROFlenergy 	No
 spring-type terminal PROFlenergy 	No

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control supply voltage at AC	
 at 50 Hz rated value 	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
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 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	420 mA
holding current in bypass operation rated value	820 mA
locked-rotor current at close of bypass contact maximum	0.91 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	275 mm
width	170 mm
depth	152 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	2.6 kg
Connections/ Terminals type of electrical connection	
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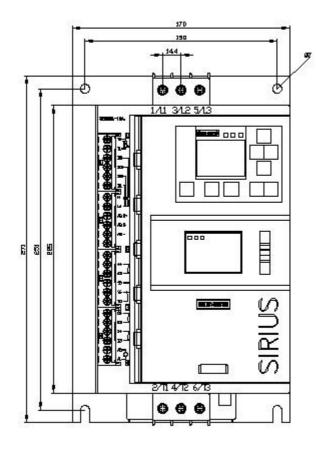
e	
for main current circuit	screw-type terminals
for control circuit	screw-type terminals
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	50 m 150 m
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	250 m
type of connectable conductor cross-sections	250 111
for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
 — finely stranded with core end processing 	2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
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 mm ²), 2x (0.5 1.5 mm ²)
processing	
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at DC maximum 	1 000 m
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
a during storage and transport	above -25 +80 °C
during storage and transport environmental category	-25 +60 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	acc. to IEC 60947-4-2: Class A
EMC emitted interference Communication/ Protocol	
EMC emitted interference Communication/ Protocol communication module is supported	acc. to IEC 60947-4-2: Class A
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	acc. to IEC 60947-4-2: Class A Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature	acc. to IEC 60947-4-2: Class A Yes No
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP	acc. to IEC 60947-4-2: Class A Yes No No
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	acc. to IEC 60947-4-2: Class A Yes No No No
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP	acc. to IEC 60947-4-2: Class A Yes No No No Yes
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	acc. to IEC 60947-4-2: Class A Yes No No No
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	acc. to IEC 60947-4-2: Class A Yes No No No 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	acc. to IEC 60947-4-2: Class A Yes No No No 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 circuit breaker — usable for Standard Faults at 460/480 V	acc. to IEC 60947-4-2: Class A Yes No No No 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 circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65
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	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 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 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 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 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 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 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- delta circuit according to UL — usable for Standard Faults at 460/480 V at inside- delta circuit according to UL — usable for Standard Faults at 450/480 V at inside- delta circuit according to UL — usable for Standard Faults at 575/600 V	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 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 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 Standard Faults at 460/480 V at inside-delta circuit 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 Standard Faults at 575/600 V according to UL — usable for High Faults at 575/600 V at inside-	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 60 A; lq max = 65 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 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 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-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for High Faults at 575/600 V at usable for Standard Faults at 575/600 V at	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA
EMC emitted interference 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 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 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 inside-delta circuit according to UL	acc. to IEC 60947-4-2: Class AYesNoNoNoYesYesYesYesSiemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kASiemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kASiemens type: 3RV2742, max.70 A or 3VA51, max. 125 A; lq = 5 kASiemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kASiemens type: 3VA51, max. 60 A; lq max = 65 kASiemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kASiemens type: 3VA51, max. 60 A; lq max = 65 kASiemens type: 3VA51, max. 60 A; lq max = 65 kASiemens type: 3VA51, max. 60 A; lq max = 65 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 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 Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL - usable for Standard Faults at 460/480 V at usable for Standard Faults at 460/480 V at usable for Standard Faults at 575/600 V according to UL - usable for Standard Faults at 575/600 V at usable for Standard Faults at 575/600 V at inside-delta circuit according to UL - usable for Standard Faults at 575/600 V at 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 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 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	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA
EMC emitted interference 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 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 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 inside-delta circuit according to UL	acc. to IEC 60947-4-2: Class A Yes No No No Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA

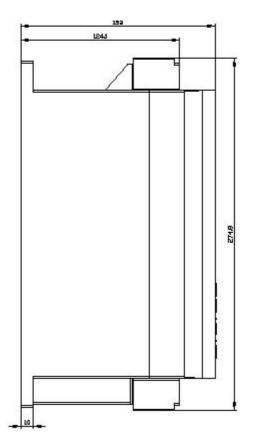
according to UL 	Type: Class RK5 / K5, max. 150 A; lq = 5 kA Type: Class J / L, max. 150 A; lq = 100 kA 10 hp 20 hp 30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes Yes State ATEX F 003 X
circuit up to 575/600 V according to UL — 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 • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated • at 575/600 V at inside-delta circuit at 50 °C rated • at 575/600 V at 50 °C rated • at 575/600 V at 50 °C rated V at 50 °C rated • at 575/600 V at 50 °C rated	Type: Class J / L, max. 150 A; lq = 100 kA 10 hp 10 hp 20 hp 30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
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 • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at 50 °C rated value • at 5	10 hp 10 hp 20 hp 30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
 at 200/208 V at 50 °C rated value at 220/230 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 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated valu	10 hp 20 hp 30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
 at 220/230 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 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU 	10 hp 20 hp 30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
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 at 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	30 hp 15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
 at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX iECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU 	15 hp 20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU 	20 hp 40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU 	40 hp 50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	50 hp R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	R300-B300 IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	IP20 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
touch protection on the front acc. to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	acc. to IEC 60947-4-2 Yes Yes BVS 18 ATEX F 003 X
ATEX certificate of suitability	Yes Yes BVS 18 ATEX F 003 X
certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	Yes BVS 18 ATEX F 003 X
ATEX IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	Yes BVS 18 ATEX F 003 X
IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	Yes BVS 18 ATEX F 003 X
• according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	
2014/34/EU	
	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
Certificates/ approvals	
General Product Approval	EMC For use in haz ous locations
For use in hazard- ous locations Declaration of Conformity Test Certificat	tes Marine / Shipping
ATEX EG-Konf. Type Test Cert ates/Test Rep	
Marine / Shipping other	
PRS Confirmation	n
Marine / Shipping other	VERITAS

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=3RW5517-1HA05 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5517-1HA05 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-1HA05 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5517-1HA05&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-1HA05/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5517-1HA05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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3/9/2021 🖸