SIEMENS

Data sheet 3RW5225-1AC05



SIRIUS soft starter 200-600 V 63 A, 24 V AC/DC Screw terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00 3RW5980-0CE00

3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3NA3830-6; Type of coordination 1, Iq = 65 kA

3NA3830-6; Type of coordination 1, Iq = 65 kA

3NE1022-0; Type of coordination 2, Iq = 65 kA

3NE8024-1; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

3

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

for main current circuit	100 ms
for control circuit	100 ms
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	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q 02/15/2018
Substance Prohibitance (Date) product function	02/15/2016
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
• Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
• inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
 communication function 	Yes
 operating measured value display 	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
 via software parameterizable 	No
 via software configurable 	Yes
via software configurablePROFlenergy	Yes; in connection with the PROFINET Standard communication
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
PROFlenergyfirmware update	Yes; in connection with the PROFINET Standard communication module Yes
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard communication module Yes Yes
 PROFlenergy firmware update removable terminal for control circuit torque control 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 PROFlenergy firmware update removable terminal for control circuit torque control analog output 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
 PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value 	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value of the proflement of the p	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current value operational current value operational current value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value or at 50 °C rated value at 60 °C rated value or at 60 °C rated value or at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current value at 50 °C rated value at 50 °C rated value operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value rated value operating voltage rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value operating voltage at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 %
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage rated value operative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 %
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage at	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 %
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage rated value operative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 %
PROFlenergy In firmware update In removable terminal for control circuit In torque control In analog output Power Electronics Operational current In at 40 °C rated value In at 50 °C rated value In at 60 °C rated value In at 40 °C rated value In at 60 °C rated	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy In firmware update In removable terminal for control circuit In torque control In analog output Power Electronics Operational current In at 40 °C rated value In at 50 °C rated value In at 60 °C rated value In at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy In firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value operating voltage rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 % -15 %
PROFlenergy In firmware update In removable terminal for control circuit In torque control In analog output Power Electronics Operational current In at 40 °C rated value In at 50 °C rated value In at 40 °C rated value In at 230 V at 40 °C rated value In at 230 V at inside-delta circuit at 40 °C rated value In at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 600 V 200 600 V -15 % 10 % -15 % 10 %

• at 500 V at inside-delta circuit at 40 °C rated value	55 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	25.5 A
at rotary coding switch on switch position 2	28 A
 at rotary coding switch on switch position 3 	30.5 A
at rotary coding switch on switch position 4	33 A
at rotary coding switch on switch position 5	35.5 A
 at rotary coding switch on switch position 6 	38 A
 at rotary coding switch on switch position 7 	40.5 A
at rotary coding switch on switch position 8	43 A
 at rotary coding switch on switch position 9 	45.5 A
at rotary coding switch on switch position 10	48 A
 at rotary coding switch on switch position 11 	50.5 A
 at rotary coding switch on switch position 12 	53 A
 at rotary coding switch on switch position 13 	55.5 A
 at rotary coding switch on switch position 14 	58 A
 at rotary coding switch on switch position 15 	60.5 A
 at rotary coding switch on switch position 16 	63 A
• minimum	25.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	44.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	48.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	52.8 A
 for inside-delta circuit at rotary coding switch on switch position 4 	57.2 A
 for inside-delta circuit at rotary coding switch on switch position 5 	61.5 A
 for inside-delta circuit at rotary coding switch on switch position 6 	65.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 	70.1 A
 for inside-delta circuit at rotary coding switch on switch position 8 	74.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	78.8 A
 for inside-delta circuit at rotary coding switch on switch position 10 	83.1 A
 for inside-delta circuit at rotary coding switch on switch position 11 	87.5 A
• for inside-delta circuit at rotary coding switch on switch position 12	91.8 A
for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on	96.1 A
for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at	100 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at	105 A
 for inside-delta circuit at rotary coding switch on switch position 16 	109 A
at inside-delta circuit minimum minimum load [9/]	44.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC • at 40 °C after startup	31 W
• at 50 °C after startup	29 W
• at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	882 W
• at 50 °C during startup	744 W
at 60 °C during startup	659 W
Control circuit/ Control	

type of voltage of the control supply voltage	AC/DC
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	-20 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	20 %
voltage at AC at 50 Hz relative negative tolerance of the control supply	-20 %
voltage at AC at 60 Hz relative positive tolerance of the control supply	20 %
voltage at AC at 60 Hz	
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	160 mA
holding current in bypass operation rated value	380 mA
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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	1
number of digital outputs	3
number of digital outputs • not parameterizable	2
 not parameterizable 	2
not parameterizabledigital output version	2 2 normally-open contacts (NO) / 1 changeover contact (CO)
 not parameterizable digital output version number of analog outputs 	2 2 normally-open contacts (NO) / 1 changeover contact (CO)
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
 not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connectable conductor cross-sections for main contacts for box terminal using the front 	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg

so for man contacts for box terminal using the front clamping point arising and contacts for box terminal using the foot clamping point signal of the control contacts for box terminal using the foot clamping point signal of the control contacts for box terminal using the foot clamping point signal of the control contacts for box terminal using the back clamping point of the control contacts for box terminal using both clamping points frained of the control contacts for box terminal using both clamping points transded of the control contacts for box terminal using both clamping points transded of the control contacts for box terminal using both clamping points transded of the control contacts for box terminal using both clamping points transded of the control circuit finely stranded with core end processing of the control circuit finely stranded with core end processing of the control circuit solid wire length of the control circuit finely stranded with core end processing of the control circuit solid wire length of the control circuit finely stranded with core end processing of the control circuit solid wire length of the control circuit finely stranded with core end processing of the control circuit solid wire length of the control circuit solid wire length of the control circuit solid wire length of the control contacts with screw-type terminals of the depth of the control contacts with screw-type terminals or an activate with screw-type terminals or activated with screw-type terminals or activated with screw-type terminals or activate with screw-type terminals or activated with screw-type term		
clamping point stranded • at AWC cables for main contacts for box terminal using the front clamping point • or main contacts for box terminal using the back clamping point solid • or main contacts for box terminal using both clamping point solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and cortrol contacts wi	processing	4. (40 70 mm²)
at AWG cables for main contacts for box terminal using the for main contacts for box terminal using the tox clamping point solid at AWG cables for main contacts for box terminal using the back clamping point solid for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both clamping points standed for main contacts for box terminal using both clamping points standed for main contacts for box terminal using both clamping points standed for main contacts for box terminal using the back clamping point standed for main contacts for box terminal using the back clamping point standed for main contacts for box terminal using the back clamping point standed for control circuit solid for the diplai inputs at DC maximum at the diplai inputs at AC maximum at the diplai inputs at CD maximum at the dip		1x (10 /0 mm²)
• for main contacts for box terminal using the back clamping point solid • at AWG cables for main contacts for box terminal using the back clamping point • for main contacts for box terminal using both clamping points standed • for main contacts for box terminal using both clamping points standed • for main contacts for box terminal using both clamping points standed • for main contacts for box terminal using both clamping points standed • for main contacts for box terminal using the back clamping point standed with core end processing • for control circuit solid • between soft starter and motor maximum • at the digital injust at DC maximum • at the digital injust at DC maximum • at the digital injust at DC maximum • of main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for during storage and transport • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • during beration according to IEC 60721 • during beration according to IEC 60721 • during transport according to IEC 60721 • during beration acco	 at AWG cables for main contacts for box terminal 	1x (10 2/0)
and AWG cables for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points stranded for main contacts for box terminal using both clamping points stranded for main contacts for box terminal using the back clamping point finely stranded with core end processing for control circuit solid for control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid wire length heaves not starter and motor maximum at the digital inputs at AC maximum to main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contracts with screw-type t	 for main contacts for box terminal using the back 	1x (2.5 16 mm²)
• for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts with core with a processing • for control circuit solid • for control circuit solid • for control circuit solid vire length • between soft starter and motor maximum • at the digital inputs at DC maximum • at	 at AWG cables for main contacts for box terminal 	1x (10 2/0)
• for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping points stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts for box terminal using the back clamping point stranded * for main contacts with stranded with core end processing • at AWG cables for control circuit solid * wire length • between soft starter and motor maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts wit	 for main contacts for box terminal using both 	2x (2.5 16 mm²)
clamping points stranded • for main contacts for box terminal using the back clamping point finded of the processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at PC maximum • at for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for maxiliary and control contacts with screw-type • during operation • during operation • during operation • during operation according to IEC 60721 • during storage according to IEC 60721 • during operation according	 for main contacts for box terminal using both clamping points finely stranded with core end 	2x (2.5 35 mm²)
• for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for control circuit solid • for the solid plants at AC maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for for auxiliary and control contacts with screw-type • during operation • during sorage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according		2x (6 16 mm²), 2x (10 50 mm²)
clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • two length • between soft starler and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for maximary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINES transport • of circuit breaker — usable for High Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65	 for main contacts for box terminal using the back clamping point finely stranded with core end 	1x (2.5 50 mm²)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contact		1x (10 70 mm²)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type	type of connectable conductor cross-sections	
a at AWG cables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • for auxiliary and control contacts with screw-type terminals • during operation • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • dur		
wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for or auxiliary and control contacts with screw-type terminals • for or auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • fo		
• between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during transport according to IEC 60721 • Modbus TCP • PROFINET standard • PROFIBUS Tyes DL/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 Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
at the digital inputs at AC maximum at the digital inputs at DC maximum 1 000 m tightening torque of or main contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type terminals of or auxiliary and control contacts with screw-type and security and control contacts with screw-type and secu	•	
• at the digital inputs at DC maximum tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **Tourilland tourilland tou		
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type termina		
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [Ibf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **The interminals** **The intermin		1 000 m
• for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport ac		45.00
tightening torque [ibf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during transport according to IEC 60721 • Communication Protocol communication Protocol communication protocol communication protocol ves • PROFIBUS Ves • Modbus TCP • PROFIBUS Ves Modbus TCP • PROFIBUS Ves Modbus TCP • PROFIBUS Ves Ves Ves Ves Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA		
tightening torque [ibf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol Communication / Protocol Communication module is supported • PROFINET standard • EtherNet/IP • 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA		0.8 1.2 N·m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS proside the devices and the standard fealts at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL		
• for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC		40 53 lhf-in
Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference • communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	•	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according according according to IEC 60721 • during transport according according according to IEC 60721 • during transport according according according according to IEC 60721 • during transport according to the devices), 3M6 • during transport acco		
ambient temperature • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • ROE mitted interference communication/ Protocol communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS ves • Modbus RTU • Modbus TCP • PROFIBUS profibus ves ves 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	Ambient conditions	
 during operation during storage and transport during storage and transport during operation according to IEC 60721 during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 during transport according t	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
above during storage and transport environmental category during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 eduring transport according to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported PROFINET standard PROFINET standard PROFIBUS Modbus RTU Modbus RTU PROFIBUS Modbus TCP PROFIBUS Tyes PROFIBUS Tyes DUL/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 to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA	ambient temperature	
environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference • communication/Protocol communication module is supported • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • 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 to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	during operation	
• during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference • Communication / Protocol • PROFINET standard • PROFINET standard • 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 Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq = 10 kA	 during storage and transport 	-40 +80 °C
mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication / Protocol communication module is supported • PROFINET standard • 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 Siemens type: 3VA51, max. 125 A; Iq = 10 kA	environmental category	
ont get inside the devices), 1M4 of during transport according to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported of EtherNet/IP of Modbus RTU of Modbus TCP of Circuit breaker - usable for Standard Faults at 460/480 V according to UL - usable for Standard Faults at 460/480 V at signers type: 3VA51, max. 125 A; Iq = 10 kA 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc.	 during operation according to IEC 60721 	
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA	 during storage according to IEC 60721 	
communication/ Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS Ves • PROFIBUS Ves • 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 to UL — usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	EMC emitted interference	acc. to IEC 60947-4-2: Class A
 PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS Yes PROFIBUS Yes 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 to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA 	Communication/ Protocol	
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS Yes 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 to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 	communication module is supported	
 Modbus RTU Modbus TCP Modbus TCP Modbus TCP Modbus TCP Yes Yes PROFIBUS Yes 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 to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 	 PROFINET standard 	Yes
 Modbus TCP PROFIBUS Yes Ves 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 to UL usable for Standard Faults at 460/480 V according to UL Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 	EtherNet/IP	Yes
● 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 to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA		Yes
 ■ of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 		Yes
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 to UL — usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA		Yes
 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 	UL/CSA ratings	
 — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA 	manufacturer's article number	
according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA	of circuit breaker	
to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 125 A; Iq = 10 kA		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA
	· · · · · · · · · · · · · · · · · · ·	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
		Siemens type: 3VA51, max. 125 A; Iq = 10 kA

— usable for High Faults at 460/480 V at insidedelta circuit according to UL

— usable for Standard Faults at 575/600 V according to UL

— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

• 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

• 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

 \bullet at 460/480 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

• at 575/600 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 A; Iq = 100 kA

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 A; Iq = 100 kA

15 hp

20 hp

40 hp

50 hp

30 hp

30 hp

75 hp

75 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



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=3RW5225-1AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-1AC05

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5225-1AC05&lang=en

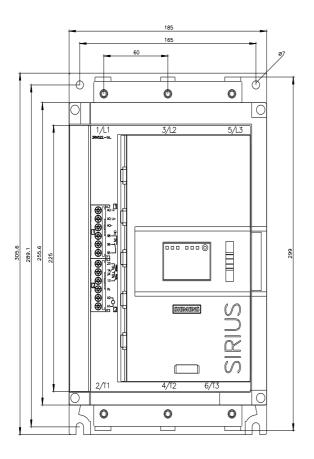
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC05/char

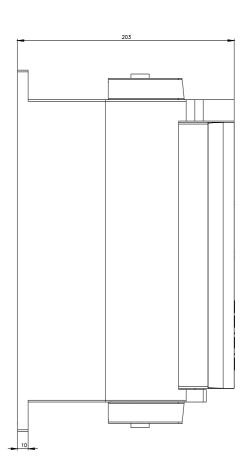
Characteristic: Installation altitude

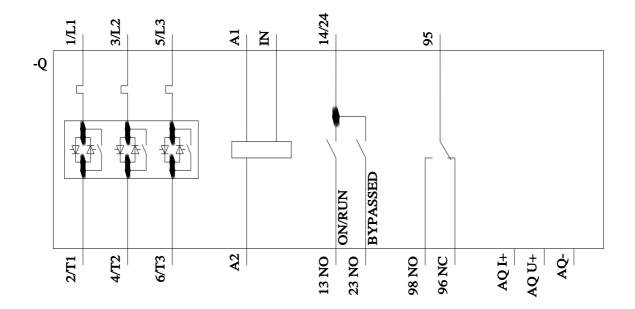
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5225-1AC05\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







last modified: 9/13/2022 🖸