SIEMENS

Data sheet 3RW5224-1AC05



SIRIUS soft starter 200-600 V 47 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

3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10

3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10

3NA3824-6; Type of coordination 1, Iq = 65 kA

3NA3824-6; Type of coordination 1, Iq = 65 kA

3NE1021-2; 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

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

	400
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
Substance Prohibitance (Date)	02/15/2018
product function	
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
PROFlenergy	Yes; in connection with the PROFINET Standard communication
	module
firmware update	Yes
 removable terminal for control circuit 	Yes
torque control	No
 analog output 	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
 at 40 °C rated value 	47 A
 at 50 °C rated value 	41.6 A
 at 60 °C rated value 	36.2 A
operational current at inside-delta circuit	
 at 40 °C rated value 	81.4 A
 at 50 °C rated value 	72 A
 at 60 °C rated value 	62.7 A
operating voltage	
rated value	200 600 V
 at inside-delta circuit rated value 	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	11 kW
• at 230 V at inside-delta circuit at 40 °C rated value	22 kW
 at 400 V at 40 °C rated value 	22 kW
• at 400 V at inside-delta circuit at 40 °C rated value	45 kW
 at 500 V at 40 °C rated value 	30 kW

 at 500 V at inside-delta circuit at 40 °C rated value 	45 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	20 A
 at rotary coding switch on switch position 2 	21.8 A
 at rotary coding switch on switch position 3 	23.6 A
 at rotary coding switch on switch position 4 	25.4 A
 at rotary coding switch on switch position 5 	27.2 A
 at rotary coding switch on switch position 6 	29 A
 at rotary coding switch on switch position 7 	30.8 A
 at rotary coding switch on switch position 8 	32.6 A
 at rotary coding switch on switch position 9 	34.4 A
 at rotary coding switch on switch position 10 	36.2 A
 at rotary coding switch on switch position 11 	38 A
at rotary coding switch on switch position 12	39.8 A
 at rotary coding switch on switch position 13 	41.6 A
 at rotary coding switch on switch position 14 	43.4 A
at rotary coding switch on switch position 15 at rotary coding switch on switch position 16	45.2 A 47 A
at rotary coding switch on switch position 16minimum	47 A 20 A
adjustable motor current	20 A
for inside-delta circuit at rotary coding switch on switch position 1	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 2 	37.8 A
 for inside-delta circuit at rotary coding switch on switch position 3 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 4 	44 A
 for inside-delta circuit at rotary coding switch on switch position 5 	47.1 A
 for inside-delta circuit at rotary coding switch on switch position 6 	50.2 A
 for inside-delta circuit at rotary coding switch on switch position 7 	53.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	56.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	59.6 A
 for inside-delta circuit at rotary coding switch on switch position 10 	62.7 A
 for inside-delta circuit at rotary coding switch on switch position 11 	65.8 A
for inside-delta circuit at rotary coding switch on switch position 12	68.9 A 72.1 A
for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on	75.2 A
 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on 	78.3 A
switch position 15 • for inside-delta circuit at rotary coding switch on	81.4 A
switch position 16 at inside-delta circuit minimum	34.6 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	26 W
• at 50 °C after startup	24 W
• at 60 °C after startup	23 W
power loss [W] at AC at current limitation 350 $\%$	
 at 40 °C during startup 	606 W
at 50 °C during startup	522 W
at 60 °C during startup	438 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 voltage at AC at 50 Hz	-20 %
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	-10 %
voltage frequency relative positive tolerance of the control supply	10 %
voltage frequency	
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	3.3 A
maximum	
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
1 1 2 1 1	not part or scope or suppry
Inputs/ Outputs	
	1
number of digital inputs	1
number of digital outputs	3
number of digital outputs	3
number of digital outputs • not parameterizable	3 2
number of digital outputs ● not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital outputs ■ not parameterizable digital output version number of analog outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital outputs • 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital outputs • 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
number of digital outputs • 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	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital outputs • 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	3 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
number of digital outputs • 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	3 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
number of digital outputs • 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	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
number of digital outputs • 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
number of digital outputs • 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
number of digital outputs • 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 185 mm
number of digital outputs • 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
number of digital outputs • 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
number of digital outputs • 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 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
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number of digital outputs • 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
number of digital outputs • 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
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number of digital outputs • 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 5.2 kg
number of digital outputs • 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 5.2 kg
number of digital outputs • 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 5.2 kg
number of digital outputs • 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 5.2 kg
number of digital outputs	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 5.2 kg
number of digital outputs	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 5.2 kg
number of digital outputs	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 5.2 kg box terminal screw-type terminals 25 mm

so for an an contacts for box terminal using the front damping point attending an expectation of the post of the p		
clamping point stranded ** at AWC achies for main contacts for box terminal using the front clamping point ** for main contacts for box terminal using both clamping point solid ** for main contacts for box terminal using both clamping point solid ** for main contacts for box terminal using both clamping points self ** 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 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 main contacts for box terminal using the back clamping point stranded ** for main contacts for for terminals ** for control circuit solid ** for control circuit solid ** for control circuit solid ** between soft starter and motor maximum ** at the digital inputs at I/C	processing	4 v /40 70 mm m²)
and AWG cables for main contacts for box terminal using the pack clamping point solid at AWG cables 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 points solid for main contacts for box terminal using both clamping points solid 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 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 crout still solid for control crout solid for control crout still solid for control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary		1x (10 70 mm²)
of main contacts for box terminal using the back clamping point solid of AWG cables for main contacts for box terminal using the back clamping point is solid of main contacts for box terminal using both clamping points solid of main contacts for box terminal using both clamping points firely stranded with core end processing of main contacts for box terminal using both clamping points stranded of main contacts for box terminal using both clamping points stranded of main contacts for box terminal using the back clamping point stranded with core end processing of ro control circuit solid of the digital inputs at DC maximum of the digital input	 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 stranded 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 co	 for main contacts for box terminal using the back 	1x (2.5 16 mm²)
• for main contacts for box terminal using both clamping points selid • 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 with core with experiments • for control circuit solid • for control circuit solid for solid	 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 both clamping points stranded • for main contacts for box terminal using the back clamping point stranded volumination contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit shidle • 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 shidle • for control circuit shidle • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • f	 for main contacts for box terminal using both 	2x (2.5 16 mm²)
• for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point firely 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 * type of connectable conductor cross-sections • for control circuit solid • at AVIG cables for control circuit solid • at AVIG cables for control circuit solid • at the digital inputs at DC maximum • at the digital inputs at DC ma	 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 firely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded with core end processing • for main contacts for box terminal using the back clamping point stranded with core end processing • for control circuit solid • for main contacts with stream of the state 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 main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals •		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 AWC cables for control circuit solid • to the digital inputs at AC 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 main contacts with screw-type terminals • for maximum antibient temperature • during operation • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINES at a 460/480 V accord	 for main contacts for box terminal using the back clamping point finely stranded with core end 	1x (2.5 50 mm²)
• for control circuit Solid • for control circuit Solid • for control circuit Infelly stranded with core end processing • at AWC sables for control circuit solid wire length • between soft starter and motor maximum • at the digital inputs at AC 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 main contacts with screw-type terminals • for maxiliary and control contacts with screw-type • during operation • during operation • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standard • PROFINES • results transport • of circuit breaker — usable for Figh Faults at 460/480 V at Siemens typ		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 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 deviliary and control 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 • 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 • during operation • during storage according to IEC 60721 • during transport according to IEC		
wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for audilary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • during operation • during operation • during storage according to IEC 60721 • during transport according to IEC 60721 • proposition transport ac		
• 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 storage according to IEC 60721 • during operation according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Moditus TCP • PROFINET standard • PROFINET standard • PROFINET standard • Communication module is supported • PROFINET standard • Communication protocol comunication protocol communication protocol communication protoco	 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 1 1000 m 1 1	•	
• 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 * for maxiliary 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 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 • during transport according to IEC 60721 • during transport according to IEC 60721 * EMC emitted interference Communication Module is supported • PROFINET standard • PROFIBUS * Yes * ULGSA 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: 3NA51, max. 90 A; Iq = 5 kA Siemens type: 3NA51, max. 90 A; Iq = 5 kA		
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type termina		
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	· · · · · · · · · · · · · · · · · · ·	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA
		Siemens type: 3VA51, max. 90 A; Iq = 5 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. 60 A; Iq max = 65 kA

Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA

Siemens type: 3VA51, max. 90 A; Iq = 5 kA

Type: Class RK5 / K5, max. 175 A; Iq = 5 kA

Type: Class J / L, max. 175 A; Iq = 100 kA

Type: Class RK5 / K5, max. 175 A; Iq = 5 kA

Type: Class J / L, max. 175 A; Iq = 100 kA

10 hp

10 hp

30 hp

40 hp

20 hp

25 hp

50 hp

60 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=3RW5224-1AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5224-1AC05

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5224-1AC05&lang=en

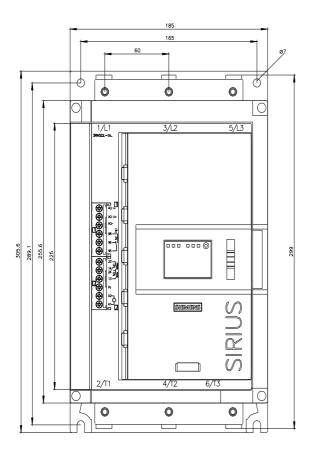
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC05/char

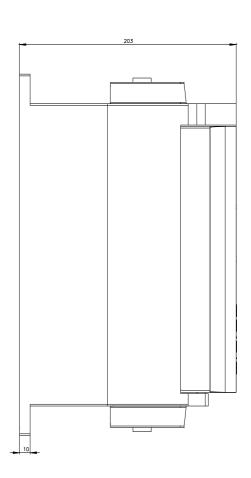
Characteristic: Installation altitude

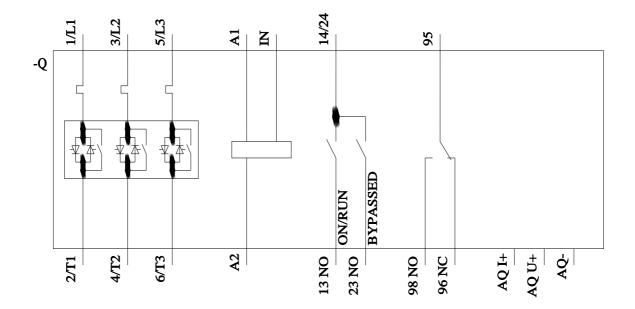
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5224-1AC05\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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