SIEMENS

Data sheet 3RW5224-1AC04



SIRIUS soft starter 200-480 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, Ig = 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

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	1 400 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)
Device Floring in	1 livit)
Power Electronics	
operational current	47.4
• 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	04.4.4
• 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	200 400 1/
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	11 kW
at 230 V at 40 C rated value at 230 V at inside-delta circuit at 40 °C rated value	22 kW
	22 kW
• at 400 V at 40 °C rated value	22 kW 45 kW
	22 kW 45 kW 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 45.2 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 16 minimum 	20 A
adjustable motor current	20 /
for inside-delta circuit at rotary coding switch on	34.6 A
 switch position 1 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
for inside-delta circuit at rotary coding switch on switch position 13	72.1 A
for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on	75.2 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on	78.3 A 81.4 A
 for inside-delta circuit at rotary coding switch on 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	10 70, Rolative to official octable to
• 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	

a to 0 tr. rated value b at 0 0 tr. rated value relative negative tolerance of the control supply voltage at A.C at 50 Hz relative positive tolerance of the control supply voltage at A.C at 50 Hz relative negative tolerance of the control supply voltage at A.C at 50 Hz voltage fractive positive tolerance of the control supply voltage at A.C at 50 Hz voltage fractive positive tolerance of the control supply voltage fractive positive tolerance of the control supply voltage fractive apply voltage a to C rot voltage fractive apply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage at 50 can be standard to the control supply voltage maximum duration of inush current peak at application of control supply voltage maximum duration of inush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control supply voltage and the control supply voltage **A C I S at 250 V rated value **I A G S use (Cu=1 kA), S A quick-acting fuse (cu=1 kA), C I miniature crout treaker (cu= 500 A), C miniature circuit breaker (cu= 300 A), is not part of scope of supply **I D treaker (cu= 500 A), C miniature circuit breaker (cu= 300 A), is not part of scope of supply **I D treaker (cu= 500 A), C miniature circuit breaker (cu= 500 A), is not part of scope of supply **I D treaker (cu= 500 A), C miniature circuit breaker (cu= 500 A), is not part of scope of supp		
relative negative tolerance of the control supply voltage at 2a d 56 Hz voltage at 2a d	 at 50 Hz rated value 	24 V
voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value • at DC rated value control supply current in standby mode rated value holding current in bypass operation rated value holding current peak at application of control supply voltage maximum inush current peak at application of control supply voltage maximum design of short-circuit protection for control circuit design of short-circuit protection for control circuit finputs/Outputs Inputs/Outputs Inputs/Outputs/Outputs Inputs/Outputs/Outputs/Outputs Inputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Ou	 at 60 Hz rated value 	24 V
voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage a aC Cartad Value relative negative tolerance of the control supply voltage frequency control supply voltage a aC Cartad Value relative negative tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value holding current peak at application of control supply voltage maximum inursh current peak at application of control supply voltage maximum design of short-circuit protection for control circuit design of short-circuit protection for control circuit design of short-circuit protection for control circuit supply voltage a number of digital inputs number of digital inputs number of digital outputs a not parameterizable digital output version number of analog outputs a AC-15 at 250 V rated value a AC-15 at 220 V rated value b a CD-C13 at 220 V rated value a AC-15 at 220 V rated value b convarids c powards c poward		-20 %
voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage a lat C at de Value relative negative tolerance of the control supply voltage at CC relative positive tolerance of the cont		20 %
relative positive tolerance of the control supply voltage at AC at 69 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency - relative negative tolerance of the control supply voltage requency - at DC rated value - at DC rated value relative negative tolerance of the control supply voltage at DC - relative positive tolerance of the control supply voltage at DC - control supply current in standby mode rated value holding current in bypass operation rated value control supply current pass operation rated value holding current peak at application of control supply voltage maximum duration of mush current peak at application of control supply voltage design of short-circuit protection for control circuit design of short-circuit protection for control circuit number of digital inputs - inputs/ Outputs number of digital inputs - inputs/ Outputs - inputs/ Outputs/ Outputs - inputs/ Outputs/ Outp		-20 %
relative negative tolerance of the control supply voltage frequency control supply voltage frequency control supply voltage at a DC rated value relative negative tolerance of the control supply voltage at a DC rated value relative negative tolerance of the control supply voltage at DC rated value holding current in standby mode rated value holding current in bypass operation rated value holding current peak at application of control supply voltage maximum invalue of the overvoltage protection design of the overvoltage protection design of the overvoltage protection design of the overvoltage protection value of the voltage protection design of abort-circuit protection for control circuit value of the overvoltage protection value of the voltage value of v		20 %
relative negative tolerance of the control supply voltage frequency control supply voltage frequency control supply voltage at a DC rated value relative negative tolerance of the control supply voltage at a DC rated value relative negative tolerance of the control supply voltage at DC rated value holding current in standby mode rated value holding current in bypass operation rated value holding current peak at application of control supply voltage maximum invalue of the overvoltage protection design of the overvoltage protection design of the overvoltage protection design of the overvoltage protection value of the voltage protection design of abort-circuit protection for control circuit value of the overvoltage protection value of the voltage value of v	control supply voltage frequency	50 60 Hz
voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit and part of scope of supply Inputs/ Outputs Inputs/ Outputs/ Outputs Inputs/ Outputs/ Outputs/ Outputs Inputs/ Outputs/ Out	relative negative tolerance of the control supply	-10 %
a the Crated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum innush current peak at application of control supply voltage maximum duration of innush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit and the state of the state		10 %
relative negative lolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in standby mode rated value locked-rotor current at close of bypass contact maximum incurrent peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit current peak at application of control supply voltage maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit current of the overvoltage protection and protection of the overvoltage protec	control supply voltage	
voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs Inputs/ Outputs/ A A G Rauck-acting fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), 6 A quick-ac	 at DC rated value 	24 V
voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs • at AC-15 at 250 v rated value • at AC-15 at 250 v rated value • at AC-13 at 24 v rated value • at AC-13 at 24 v rated value • at AC-13 at 24 v rated value • at Co-13 at 24 v rated value • at AC-15 at 250 v ra		-20 %
holding current in bypass operation rated value locked-rotor current at close of bypass contact maximum insus current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs Inputs/ Outputs/ Inputs/ Inp		20 %
locked-rotor current at close of bypass contact maximum inush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Varistor	control supply current in standby mode rated value	160 mA
inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit inputs/ Outputs number of digital inputs number of digital inputs number of digital inputs number of adigital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at IDC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 250 V rated value • at DC	holding current in bypass operation rated value	380 mA
duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs Inputs/ Outputs/ Ou	· · · · · · · · · · · · · · · · · · ·	7.6 A
supply voltage design of the overvoltage protection design of short-circuit protection for control circuit puts (Outputs number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value fastening method height width depth convards • Dackwards • Dackwards • Dackwards • Dackwards • Dackwards • Dackwards • Outputs • at the side • Or control circuit • For main current circuit • For main current circuit • For main current circuit • For main contacts for box terminal using the front clamping point solid • For main contacts for box terminal using the front clamping point solid 1 Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=300 A); is not part for exclusion and part of scope of supply 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=300 A); is not part follow (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=600 A), C5 miniature circuit threaker (Icu=600 A), Is not part of scope of supply 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=300 A); is not part of scope of supply 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=300 A); is not part of scope of supply 5 a cope of supply 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit threaker (Icu=300 A); is not part of scope of supply 5 a cope of supply 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C5 miniature circuit threaker (Icu=600 A), is not part of scope of supply 5 a cope of supply 6 a cope of supply 6 a cop		3.3 A
design of short-circuit protection for control circuit A A G G fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), 6.1 miniature circuit breaker (Icu=300 A), 1s not part of scope of supply) Inputs / Outputs	supply voltage	12.1 ms
Inputs/ Outputs number of digital inputs	5 .	
Inputs/ Outputs number of digital inputs number of digital outputs onto parameterizable digital output version number of analog outputs other and AC-15 at 250 V rated value other at AC-15 at 250 V rated value other at AC-15 at 250 V rated value other at AC-15 at 24 V rated value other at AC-15 at 250 V rated value other at AC-15 at	design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
number of digital inputs number of digital outputs onto parameterizable digital output version number of analog outputs switching capacity current of the relay outputs of at AC-15 at 250 V rated value at AC-15 at 250 V rated value at C-13 at 24 V rated value at C-13 at 24 V rated value at C-13 at 24 V rated value tractal and can be tilted forward or backward on vertical mounting surface screw fixing as mounting position fastening method height depth 203 mm required spacing with side-by-side mounting forwards backwards backwards backwards downwards downwards at the side downwards at the side strew fixing surface from mounting surface screw fixing 306 mm 100 mm forwards forwards formaric fixing formaric fixi	Inputs/ Outputs	
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 1 A Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • upwards • downwards • at beackwards • downwards • at he 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 clamping point solid • for main contacts for box terminal using the front lamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)		1
not parameterizable digital output version number of analog outputs **at AC-15 at 250 V rated value** **at AC-15 at 250 V rated value** **at AC-15 at 224 V rated value** **at AC-15 at 224 V rated value** **mounting position** **mounting position** **mounting position** **mounting method** height** **width** depth** **required spacing with side-by-side mounting** **proved backwards** **proved backw	• .	
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 1 A Installation/ mounting/ dimensions mounting position **		
number of analog outputs witching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastening method height width depth vidth depth of onwards backwards upwards at the side at the side weight without packaging connections/ Terminals type of electrical connection of or main contacts for box terminal using the front clamping point solid of ror main contacts for box terminal using the front of AD at DC-13 at 24 V rated value 1 A 1 A Installation/ mounting/dimensions 1 A 1 O mm 1 0 mm 1 0 mm 1 0 mm 1 0 mm 2 0 mm 1 0 mm 2 5 mm 4 2 kg Connections/ Terminals 1 Experimental using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front clamping point solid	·	
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position #/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 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 contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front 1 x (2.5 50 mm²)	•	
at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing height width depth required spacing with side-by-side mounting forwards backwards ba	· .	'
at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position #/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 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 • for connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)		3 Δ
mounting position		
mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm width depth 203 mm required spacing with side-by-side mounting forwards backwards oupwards oupwards downwards state bide for main current circuit for connection bar maximum type of connectable conductor cross-sections of romain contacts for box terminal using the front clamping point solid +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 107 mm 108 mm 109 mm 109 mm 100		17
fastening method height width depth required spacing with side-by-side mounting forwards backwards backwards backwards downwards downwards the side for main current circuit for connectable conductor cross-sections for main contacts for box terminal using the front least of the side screw kixing some weight without packaging vertical mounting surface screw fixing scr	•	1/ 40° retation nessible and some tilted formand on beginning an
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 connectable conductor cross-sections • for main curtest for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid	mounting position	
height width 185 mm depth 203 mm required spacing with side-by-side mounting • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 5.2 kg Connections/ Terminals type of electrical connection • for main current circuit 5 for control circuit width of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)	fastening method	screw fixing
width depth 203 mm required spacing with side-by-side mounting • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 5.2 kg Connections/ Terminals type of electrical connection • for main current circuit 5 for control circuit 5 screw-type terminals width of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)	_	-
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • formain current circuit • for connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1 (2.5 50 mm²)	_	185 mm
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for main current circuit • for connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)	depth	203 mm
backwards upwards downwards at the side some weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front lamping point solid for main contacts for box terminal using the front lax (2.5 50 mm²)	required spacing with side-by-side mounting	
 upwards downwards at the side 5 mm weight without packaging 5.2 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit for connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 16 mm²) 	• forwards	10 mm
 downwards at the side mm weight without packaging 5.2 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit of connection bar maximum type of connectable conductor cross-sections of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 50 mm²) 	backwards	0 mm
 at the side weight without packaging 5.2 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 16 mm²) 	• upwards	100 mm
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit box terminal • for control circuit screw-type terminals width of connection bar maximum 25 mm type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front to for main contacts for box terminal using the front 1x (2.5 50 mm²)	downwards	75 mm
type of electrical connection • for main current circuit box terminal • for control circuit screw-type terminals width of connection bar maximum 25 mm type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front the form the for	• at the side	5 mm
type of electrical connection • for main current circuit box terminal • for control circuit screw-type terminals width of connection bar maximum 25 mm type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)	weight without packaging	5.2 kg
type of electrical connection • for main current circuit box terminal • for control circuit screw-type terminals width of connection bar maximum 25 mm type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front 1x (2.5 50 mm²)	Connections/ Terminals	
 for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²) 		
 for control circuit width of connection bar maximum type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²) 	21	box terminal
width of connection bar maximum type of connectable conductor cross-sections of or main contacts for box terminal using the front clamping point solid of or main contacts for box terminal using the front 1x (2.5 16 mm²)		screw-type terminals
 for main contacts for box terminal using the front clamping point solid for main contacts for box terminal using the front 1x (2.5 16 mm²) 1x (2.5 50 mm²) 	width of connection bar maximum	• •
clamping point solid ● for main contacts for box terminal using the front	type of connectable conductor cross-sections	
		1x (2.5 16 mm²)
	 for main contacts for box terminal using the front 	1x (2.5 50 mm²)

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 expectations • for control circuit solid • for control circuit solid for solid soli	 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 • resident transport • of circuit breaker — usable for Figh Faults at 460/480 V at Siemens ty		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 • PROFIBUS Tush (Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 KA Siemens type: 3VA51, max. 60 A; Iq max = 65 KA Siemens type: 3VA51, max. 90 A; Iq = 5 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 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 threapsort according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Modibus TCP • PROFIBUS **PROFIBUS** **PROFIBUS** **DL/GSA ratings** manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		
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 • 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 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 EMC emitted interference Communication Protocol communication Protocol communication Protocol communication Protocol communication Protocol communication and the six supported • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS DL/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 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: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		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 and coording to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to IU. — usable for Figh Faults at 460/480 V according to IU. — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 90 A; Iq = 5 kA		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 ULICSA 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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 transport 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 RTU • Modbus RTU • Modbus RTU • PROFIBUS ULICSA 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. 90 A; Iq = 5 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 • of uring operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Alto (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • Alto (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 3M6 • Communication/ Protocol Communication/ Protocol Communication module is supported • PROFINET standard • EtherNet/IP • Modbus TCP • 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 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 IE		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 ULCSA 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; Iq = 5 kA	•	
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 storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference Communication/ Protocol communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		7 10.0 (5) (1)
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 to IEC 60721 • EMC emitted interference • Communication/ Protocol communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS Ves • 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA	Ambient conditions	
 during operation during storage and transport during storage and transport during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IC	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 during transport according to IEC 60721 eduring transport according to IEC 60721 during transport accord	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 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA	environmental category	
ot get inside the devices), 1M4 of during transport according to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported of PROFINET standard of EtherNet/IP of Modbus RTU of Modbus TCP of PROFIBUS PROFIBUS PROFIBUS Tyes 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. 90 A; Iq = 5 kA siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA	 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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 according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA	 during transport according to IEC 60721 	
communication module is supported PROFINET standard Yes EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS PROFIBUS Ves PROFIBUS Ves Ves Ves Ves Ves PROFIBUS Ves Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA 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. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 	Communication/ Protocol	
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes 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 — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 	communication module is supported	
 Modbus RTU Modbus TCP 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 according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 	 PROFINET standard 	Yes
 Modbus TCP PROFIBUS Yes 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 at Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 		
● 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 according to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		
 ■ 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. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 		
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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 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. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA 		
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. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 90 A; Iq = 5 kA		
to UL — usable for Standard Faults at 460/480 V at Siemens type: 3VA51, max. 90 A; Iq = 5 kA		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; Iq = 5 kA
	· · · · · · · · · · · · · · · · · · ·	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 200/208 V at inside-delta circuit at 50 °C rated value

• at 220/230 V at inside-delta circuit at 50 °C rated value

• at 460/480 V at inside-delta circuit at 50 °C rated value

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

20 hp

25 hp

50 hp

R300-B300

Safety related data

protection class IP on the front according to IEC

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=3RW5224-1AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5224-1AC04

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5224-1AC04&lang=en

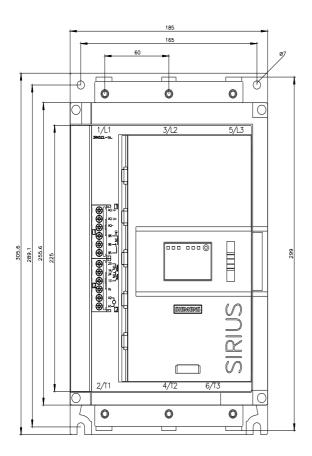
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5224-1AC04/char

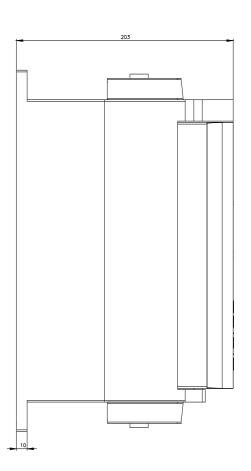
Characteristic: Installation altitude

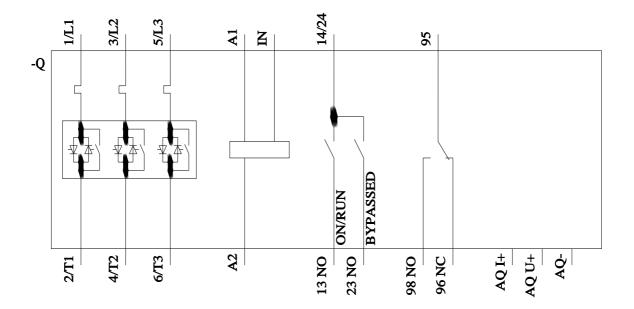
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5224-1AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 9/13/2022 🖸