# **SIEMENS**

Data sheet 3RW5234-2AC04



SIRIUS soft starter 200-480 V 113 A, 24 V AC/DC spring-type 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 400 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
- of full range R fuse link for semiconductor protection usable up to 690 V
- $\bullet$  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

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NE1225-0; Type of coordination 2, Iq = 65 kA

3NE3332-0B; 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

- for main current circuit
- for control circuit

insulation voltage rated value

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes Yes

2

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

100 ms

100 ms

600 V

degree of pollution	2 ago to IEC 60047.4.2
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	000.14
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	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
<ul><li>Soft Torque</li></ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul><li>pump ramp down</li></ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
<ul> <li>inside-delta circuit</li> </ul>	Yes
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	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	113 A
at 50 °C rated value	101 A
at 60 °C rated value	89 A
operational current at inside-delta circuit	
at 40 °C rated value	196 A
at 50 °C rated value	175 A
at 60 °C rated value	154 A
operating voltage	
• 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	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	55 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 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	53 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	57 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	61 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	65 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	69 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	73 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	77 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	81 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	85 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	89 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	93 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	97 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	101 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	105 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	109 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	113 A
• minimum	53 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	91.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	98.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	106 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	113 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	120 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	126 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	133 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	140 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	147 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	154 A
for inside-delta circuit at rotary coding switch on switch position 11	161 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	168 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	175 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	182 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	189 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	196 A
at inside-delta circuit minimum	91.8 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	46 W
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> </ul>	46 W 42 W
at 50 °C after startup     at 60 °C after startup	39 W
power loss [W] at AC at current limitation 350 %	00 VV
• at 40 °C during startup	1 512 W
at 50 °C during startup	1 291 W
at 60 °C during startup      at 60 °C during startup	1 086 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	Noibo
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %

voltage at AC at 50 Hz	00.07
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	380 mA
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature
	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
• backwards	0 mm
• upwards	100 mm
downwards     at the side	75 mm
at the side  weight without packaging	5 mm
weight without packaging	6.6 kg
Connections/ Terminals	
type of electrical connection	husbar connection
for main current circuit     for control circuit	busbar connection
tor control circuit     width of connection bar maximum	spring-loaded terminals 25 mm
	23 111111
type of connectable conductor cross-sections	24 (40 05 man 2)
for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded	2x (16 95 mm²)
• for DIN cable lug for main contacts finely stranded	2x (25 120 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> </ul>	2x (25 120 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> </ul>	2x (25 120 mm²) 2x (0.25 1.5 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (25 120 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end</li> </ul>	2x (25 120 mm²) 2x (0.25 1.5 mm²)

wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	00 404 lb4 :-
for main contacts with screw-type terminals	89 124 lbf-in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in
Ambient conditions	
	5 000 m; Denating as of 1000 m, and estalog
installation altitude at height above sea level maximum ambient temperature	5 000 m; Derating as of 1000 m, see catalog
•	25 ±60 °C: Places absorve denoting at temperatures of 40 °C or
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
5 ,	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
• EtherNet/IP	Yes
<ul> <li>Modbus RTU</li> </ul>	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	Yes
UL/CSA ratings manufacturer's article number	Yes
UL/CSA ratings manufacturer's article number • of circuit breaker	
UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V	Yes Siemens type: 3VA52, max. 250 A; Iq = 10 kA
UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V	
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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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 inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
wanufacturer'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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-	Siemens type: 3VA52, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
wanufacturer'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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
wanufacturer'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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA
wanufacturer'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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  • of the fuse	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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 Standard Faults at inside-delta circuit up	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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 Standard Faults at inside-delta circuit up	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 100 kA Type: Class RK5 / K5, max. 350 A; Iq = 100 kA Type: Class J / L, max. 350 A; Iq = 100 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  Type: Class J / L, max. 350 A; Iq = 100 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 10 kA Type: Class RK5 / K5, max. 350 A; Iq = 100 kA Type: Class RK5 / K5, max. 350 A; Iq = 100 kA Type: Class J / L, max. 350 A; Iq = 100 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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 575/600 V 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 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  30 hp 30 hp 30 hp 75 hp
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 inside-delta circuit according to UL  usable for High Faults at 460/480 V at inside-delta circuit according to UL  usable for High Faults at 460/480 V at inside-delta circuit according to UL  usable for Standard Faults at 575/600 V according to UL  usable for 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 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  30 hp 30 hp 30 hp 75 hp
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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  30 hp 30 hp 75 hp 50 hp
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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  30 hp 30 hp 75 hp 50 hp
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 inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq max = 65 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 350 A; Iq = 100 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  30 hp 30 hp 75 hp 50 hp

### 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=3RW5234-2AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5234-2AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-2AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5234-2AC04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

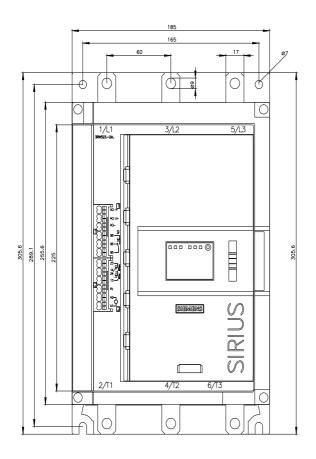
https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-2AC04/char

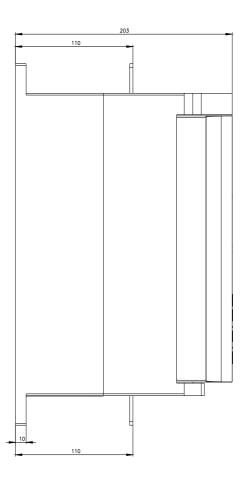
Characteristic: Installation altitude

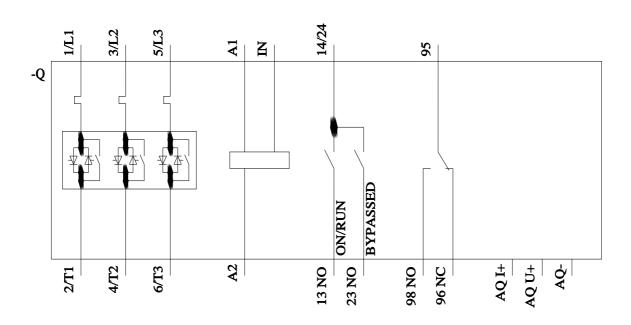
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5234-2AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 4/10/2022 🖸