## **SIEMENS**

Data sheet 3RW5247-6TC04



SIRIUS soft starter 200-480 V 470 A, 24 V AC/DC Screw terminals Thermistor input

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
- 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

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

2x3NA3365-6; Type of coordination 1, Iq = 65 kA

3NE1436-2; Type of coordination 2, Iq = 65 kA

3NE3340-8; 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
<ul> <li>for control circuit</li> </ul>	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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	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
Soft Torque	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
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	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
• via software configurable	Yes
<ul><li>via software configurable</li><li>PROFlenergy</li></ul>	Yes Yes; in connection with the PROFINET Standard communication module
<ul><li>via software configurable</li><li>PROFlenergy</li><li>firmware update</li></ul>	Yes Yes; in connection with the PROFINET Standard communication
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes No No A 470 A 416 A 380 A
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Power Electronics</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 470 A 416 A 380 A
<ul> <li>via software configurable</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics <ul> <li>operational current</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value or at 40 °C rated value or at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value or at 50 °C rated value or at 60 °C rated value or at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No 470 A 416 A 380 A
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 %
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 %
via software configurable PROFlenergy  firmware update removable terminal for control circuit torque control analog output  Power Electronics  operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	Yes Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 % -15 %
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value  operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 %
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 % -15 %
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     operating voltage     at 60 °C rated value     at 60 °C rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors     at 230 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A  814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 % -15 % 10 %
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     at 60 °C rated value     at inside-delta circuit rated value     relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors     at 230 V at 40 °C rated value     at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A 814 A 721 A 658 A  200 480 V 200 480 V -15 % 10 % -15 % 10 %
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     at 60 °C rated value     at inside-delta circuit rated value     rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors     at 230 V at 40 °C rated value     at 230 V at inside-delta circuit at 40 °C rated value     at 400 V at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 1132 kW 250 kW 250 kW
via software configurable     PROFlenergy      firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value  operational current at inside-delta circuit     at 40 °C rated value     at 50 °C rated value     at 60 °C rated value     at 60 °C rated value     at 60 °C rated value     at inside-delta circuit rated value relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors     at 230 V at 40 °C rated value     at 230 V at inside-delta circuit at 40 °C rated value     at 230 V at inside-delta circuit at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  470 A 416 A 380 A 814 A 721 A 658 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %

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	200 A
at rotary coding switch on switch position 2	218 A
at rotary coding switch on switch position 3     at rotary coding switch on switch position 4	236 A 254 A
at rotary coding switch on switch position 4     at rotary coding switch on switch position 5	272 A
<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> </ul>	290 A
at rotary coding switch on switch position 7      at rotary coding switch on switch position 7	308 A
at rotary coding switch on switch position 8	326 A
at rotary coding switch on switch position 9	344 A
at rotary coding switch on switch position 10	362 A
at rotary coding switch on switch position 11	380 A
at rotary coding switch on switch position 12	398 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	416 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	434 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	452 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	470 A
• minimum	200 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	346 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	378 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	409 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	440 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	471 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	502 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	533 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	565 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	596 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	627 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	658 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	689 A
for inside-delta circuit at rotary coding switch on switch position 13	721 A
for inside-delta circuit at rotary coding switch on switch position 14     for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at	752 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	783 A 814 A
switch position 16	
at inside-delta circuit minimum     minimum load [9/]	346 A
minimum load [%] power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
• at 40 °C after startup	153 W
• at 50 °C after startup	137 W
• at 60 °C after startup	126 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	7 903 W
at 50 °C during startup	6 604 W
at 60 °C during startup	5 794 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

a at EO Ha rated value	
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
<ul> <li>at DC rated value</li> </ul>	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	470 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	not pair of doops of dappiy
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	0
switching capacity current of the relay outputs	0.4
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
-t DO 40 -t 04 \/t	
at DC-13 at 24 V rated value	1 A
at DC-13 at 24 V rated value  Installation/ mounting/ dimensions	
	with vertical mounting surface +/-90° rotatable, with vertical mounting
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
Installation/ mounting/ dimensions mounting position fastening method height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm
Installation/ mounting/ dimensions mounting position  fastening method height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals type of electrical connection	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg  busbar connection screw-type terminals 45 mm  50 m
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg  busbar connection screw-type terminals 45 mm  50 m 150 m
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg  busbar connection screw-type terminals 45 mm  50 m
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg  busbar connection screw-type terminals 45 mm  50 m 150 m 250 m
Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm 210 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 9.9 kg  busbar connection screw-type terminals 45 mm  50 m 150 m

type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
wire length	
3	000
<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	
for main contacts with screw-type terminals	14 24 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2 IVIII
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
<u> </u>	5 000 m, Derating as or 1000 m, see Catalog
ambient temperature	
<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
• during operation according to 120 00721	mist), 3S2 (sand must not get into the devices), 3M6
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
<ul> <li>during storage according to IEC 60721</li> </ul>	not get inside the devices), 1M4
1	· · · · · · · · · · · · · · · · · · ·
<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	
communication module is supported	
- DDOCINET standard	Voc
PROFINET standard	Yes
• EtherNet/IP	Yes
• EtherNet/IP	Yes
<ul><li>EtherNet/IP</li><li>Modbus RTU</li></ul>	Yes Yes
<ul><li>EtherNet/IP</li><li>Modbus RTU</li><li>Modbus TCP</li><li>PROFIBUS</li></ul>	Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings	Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number	Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings	Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number	Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse	Yes Yes Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse  — usable for Standard Faults up to 575/600 V	Yes Yes Yes Yes Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse     usable for Standard Faults up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse	Yes Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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	Yes Yes Yes Yes Yes Yes Type: Class J / L, max. 1600 A; Iq = 30 kA Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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	Yes Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of the fuse	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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     operating power [hp] for 3-phase motors     at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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 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	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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     operating power [hp] for 3-phase motors     at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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 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	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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         operating power [hp] for 3-phase motors	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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         operating power [hp] for 3-phase motors	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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  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 200/208 V at inside-delta circuit at 50 °C rated value         • at 200/208 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; lq = 30 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  Type: Class J / L, max. 1600 A; lq = 30 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  150 hp 150 hp 250 hp 250 hp 600 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 150 hp 250 hp 250 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; lq = 30 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  Type: Class J / L, max. 1600 A; lq = 30 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  Type: Class J / L, max. 1200 A; lq = 100 kA  150 hp 150 hp 250 hp 250 hp 600 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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          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 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 150 hp 250 hp 250 hp 600 hp
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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         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 220/230 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 150 hp 250 hp 250 hp 600 hp R300-B300
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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         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 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 150 hp 250 hp 250 hp 600 hp R300-B300
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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 inside-delta circuit at 50 °C rated value     at 220/230 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     at 460/480 V at inside-delta circuit at 50 °C rated value     ortact rating of auxiliary contacts according to UL  Safety related data  protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	Yes Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 250 hp 250 hp 250 hp R300-B300  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     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         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 200/208 V at inside-delta circuit at 50 °C rated value         • at 220/230 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value         • at 460/480 V at inside-delta circuit at 50 °C rated value	Yes Yes Yes Yes Yes  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1600 A; Iq = 30 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 150 hp 250 hp 250 hp 600 hp R300-B300





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=3RW5247-6TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5247-6TC04

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6TC04}$ 

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5247-6TC04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

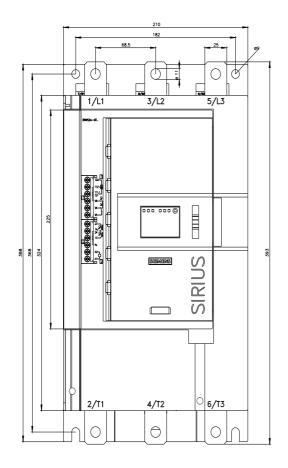
https://support.industry.siemens.com/cs/ww/en/ps/3RW5247-6TC04/char

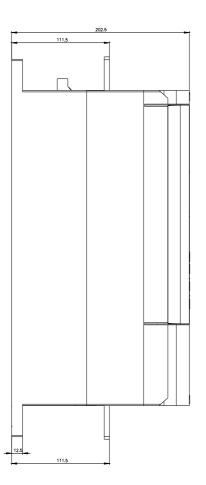
**Characteristic: Installation altitude** 

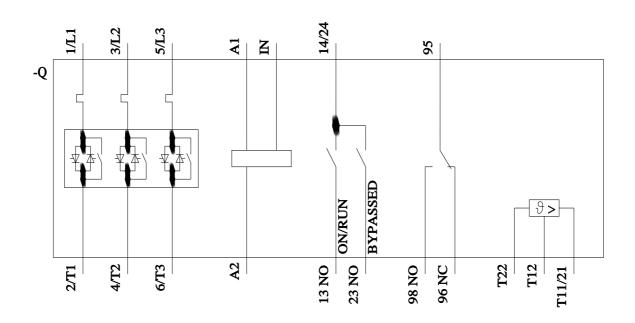
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5247-6TC04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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