## **SIEMENS**

product brand name product category

Data sheet 3RW5236-2TC05

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-600 V 171 A, 24 V AC/DC spring-type terminals Thermistor input

product category	Tybrid Switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS00
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 30 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3365-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1230-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3335; Type of coordination 2, Iq = 65 kA
Seneral technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
• is supported HMI-Standard	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
<ul><li>buffering time in the event of power failure</li><li>for main current 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	5, acc. to fee 60947-4-2		
blocking voltage of the thyristor maximum	1 800 V		
service factor			
surge voltage resistance rated value	1 6 M		
maximum permissible voltage for protective separation	6 kV		
between main and auxiliary circuit	600 V		
shock resistance			
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
utilization category according to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a		
reference code according to IEC 81346-2	Q Q		
	02/15/2018		
Substance Prohibitance (Date) product function	02/13/2010		
• ramp-up (soft starting)	Yes		
• ramp-down (soft stop)	Yes		
Soft Torque	Yes		
adjustable current limitation	Yes		
adjustable current illinitation     pump ramp down	Yes		
intrinsic device protection	Yes		
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor		
· motor overload protection	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		
operating measured value display	Yes; Only in conjunction with special accessories		
• error logbook	Yes; Only in conjunction with special accessories		
via software parameterizable	No		
via software configurable	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
firmware update	Yes		
<ul> <li>removable terminal for control circuit</li> </ul>	Yes		
• torque control	No		
analog output	No		
Power Electronics			
operational current			
• at 40 °C rated value	171 A		
• at 50 °C rated value	153 A		
• at 60 °C rated value	141 A		
operational current at inside-delta circuit			
• at 40 °C rated value	296 A		
• at 50 °C rated value	265 A		
• at 60 °C rated value	244 A		
operating voltage			
• rated value	200 600 V		
at inside-delta circuit rated value	200 600 V		
relative negative tolerance of the operating voltage	-15 %		
relative positive tolerance of the operating voltage	10 %		
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %		
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>	45 kW		
• at 230 V at inside-delta circuit at 40 °C rated value	90 kW		
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	90 kW		
• at 400 V at inside-delta circuit at 40 °C rated value	160 kW		
• at 500 V at 40 °C rated value	110 kW		
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 kW		

	TO 11
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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	81 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	87 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	93 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	99 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	105 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	111 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	117 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	129 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	135 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	141 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	147 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	153 A
at rotary coding switch on switch position 14	159 A
at rotary coding switch on switch position 15	165 A
at rotary coding switch on switch position 16	171 A
• minimum	81 A
adjustable motor current	
for inside-delta circuit at rotary coding switch on switch position 1	140 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	151 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	161 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	171 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	182 A
for inside-delta circuit at rotary coding switch on switch position 6      for inside delta size if at rotary coding switch on switch and	192 A 203 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	213 A
position 8  • for inside-delta circuit at rotary coding switch on switch	223 A
position 9 • for inside-delta circuit at rotary coding switch on switch	234 A
position 10 • for inside-delta circuit at rotary coding switch on switch	244 A
for inside-delta circuit at rotary coding switch on switch	255 A
<ul> <li>position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	265 A
for inside-delta circuit at rotary coding switch on switch position 14	275 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	286 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	296 A
at inside-delta circuit minimum	140 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	63 W
• at 50 °C after startup	58 W
at 60 °C after startup	54 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 405 W
at 50 °C during startup	2 037 W
<ul> <li>at 60 °C during startup</li> </ul>	1 826 W

Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
	24 V
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply 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	
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
	7.6 A
inrush current by closing the bypass contacts maximum	
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	
number of digital outputs	3
not parameterizable	3 2
not parameterizable     digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
not parameterizable  digital output version  number of analog outputs	3 2
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards      backwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards      backwards      upwards	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards     backwards     upwards     downwards	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 175 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards     backwards     upwards     downwards     at the side	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  306 mm  185 mm  203 mm  10 mm  0 mm  100 mm  75 mm  5 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting     forwards     backwards     upwards     downwards     at the side  weight without packaging	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 175 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting     forwards     backwards     upwards     downwards     at the side  weight without packaging	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  306 mm  185 mm  203 mm  10 mm  0 mm  100 mm  75 mm  5 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting     forwards     backwards     upwards     downwards     at the side  weight without packaging	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  306 mm  185 mm  203 mm  10 mm  0 mm  100 mm  75 mm  5 mm
not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value      at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting      forwards      backwards      upwards      downwards      at the side  weight without packaging  Connections/ Terminals	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  306 mm  185 mm  203 mm  10 mm  0 mm  100 mm  75 mm  5 mm
not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs     at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals type of electrical connection	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg
not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals type of electrical connection     for main current circuit     for control circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg  busbar connection spring-loaded terminals
not parameterizable  digital output version number of analog outputs  switching capacity current of the relay outputs      at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing with side-by-side mounting     forwards     backwards     upwards     upwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm  10 mm 0 mm 100 mm 75 mm 5 mm 7.15 kg

* with conductor cross-section = 0.5 mm² maximum * with conductor cross-section = 2.5 mm² maximum * yew this conductor cross-sections = 2.5 mm² maximum * yew this conductor cross-sections = 2.5 mm² maximum * yew of connectable up do for main contacts stranded * for DIN cable lug for main contacts froity stranded * for DIN cable lug for main contacts froity stranded * for CIN cable lug for main contacts froity stranded * for contact cross solid * for ANPC cables for control circus solid * for word processing * whe length * between solid stater and motor maximum * at the digital inputs at AC maximum * at the digital inputs at CC maximum * for a mailary and control contacts with screw-type terminals * for an contacts with screw-type terminals * for an input and control contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a mailary and control contacts with screw-type * for main contacts with screw-type terminals * for a watery and control contacts with screw-type * for main contacts with screw-type terminals * for a watery and control contacts with screw-type * for main contacts with screw-type terminals * for a watery and control contacts with screw-type * for main contacts with screw-type * during operation * during screen transport * during scree			
with conductor cross-section = 2.5 mm² maximum   type of connectable conductor cross-sections   2x (1695 mm²)	<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m	
Type of connectable conductor cross-sections	<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m	
* (or DIN cable lug for main contacts stranded     * (or DIN cable lug for main contacts fixely stranded     * (or DIN cable lug for main contacts fixely stranded     * (or control crout studid     * (or control crout finely stranded with core and processing     * (or AVXC cables for control circuit studid     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit finely stranded with     * (or avXC cables for control circuit for value for avXC cables with screw-type     * (or avXC cables for control circuit for value for avXC cables with screw-type     * (or avXC cables for control cables with screw-type     * (or avXC cables for control cables with screw-type     * (or avXC cables for control cables with screw-type     * (or avXC cables for cables for control cables with screw-type     * (or avXC cables for control cables for cables	• with conductor cross-section = 2.5 mm² maximum	250 m	
Section   Sec	type of connectable conductor cross-sections		
## Control circuit finely stranded with core end processing for AWC cables for control circuit finely stranded with core end processing for AWC cables for control circuit solid 2x (0.25 1.5 mm²) 2x (2.4 16) 2x (2.4	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (16 95 mm²)	
For control circuit said!     For control circuit said!     For control circuit finely stranded with core end processing for AVMC cables for control circuit said!     For AVMC cables for control crout timely stranded with core end processing wire length     For even soft stander and motor maximum     For even soft stander soft soft soft soft soft soft soft soft	for DIN cable lug for main contacts finely stranded		
• for control circuit fleely stranded with core end processing 2 (0.25 1.8 mm²) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (24 16) 2 (25 18 mm²) 2 (25 18 18 (25 18	type of connectable conductor cross-sections		
• for AWG cables for control circuit finely stranded with one end processing • for AWG cables for control circuit finely stranded with one end processing  • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at CD maximum  100 m  tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-ty	for control circuit solid	2x (0.25 1.5 mm²)	
• for AWG cables for control circuit finely stranded with one end processing • for AWG cables for control circuit finely stranded with one end processing  • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at CD maximum  100 m  tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-ty	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)	
• or AWG cables for control circuit finely stranded with core and processing  wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  100 m  • at the digital inputs at DC maximum  • for main contacts with screw-type terminals  •	for AWG cables for control circuit solid		
core end processing  **vire length*  **e between soft starter and motor maximum*  ** at the digital inputs at AC maximum*  ** at the digital inputs at AC maximum*  **oft the digital inputs at AC maximum*  **oft auxiliary and control contacts with screw-type terminals*  **of arautiliary and control control arautiliary and analysis and analysis and analysis and analysis and analysis and analysis and a	<ul> <li>for AWG cables for control circuit finely stranded with</li> </ul>	2x (24 16)	
ebeween soft starter and motor maximum     e at the digital inputs at DC maximum     100 m     et me digital inputs at DC maximum     1000 m  tightening torque     e for main contacts with screw-type terminals     e for auxiliary and control contacts with screw-type terminals  lightening torque (lib-fin)     e for main contacts with screw-type terminals     e for auxiliary and control contacts with screw-type terminals  lightening torque (lib-fin)     e for main contacts with screw-type terminals     e for auxiliary and control contacts with screw-type terminals  Ambient conditions  Installation altitude at height above sea level maximum  during storage and transport  eduring objection  during storage and transport  environmental category  during storage according to IEC 60721  storage according to IEC 60721  during storage according to IEC 60721  eduring storage according to IEC 60721  during storage according to IEC 60721  eduring storage according to IEC 60721  eduring storage according to IEC 60721  eduring transport according to IEC 60721  eduring storage acco	core end processing	· · · · · ·	
at the digital inputs at AC maximum 100 m tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary and control contacts with screw-type terminals  89 124 lbf·in 7 10.3 lbf·in for auxiliary as of 1000 m, see catalog  ambient temperature  • during operation • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during operation accordin	wire length		
• at the digital inputs at DC maximum      10 mom tightening torque      • for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     10 moments with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for main contacts with screw-type terminals     • for main contacts with screw-type terminals     • for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type     • for main contacts with screw-type terminals     • for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type     • during storage and transport     • d	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m	
tightening torque  • for main contacts with screw-type terminals • for for terminals • for faint part of ter	<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m	
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for solon on the for sall on the screw and transport • for fill on the for sall on the screw and transport • for fill on the screw and transport	at the digital inputs at DC maximum	1 000 m	
• for auxiliary and control contacts with screw-type terminals  • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • during operation • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721  • EMC emitted interference  • Communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINES • Modbus RTU • Modbus RTU • Modbus RTU • Modbus RTU • Modbus TCP • Yes • PROFIBUS  • PROFIBUS  • Jussible 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 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 • 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 Standard Faults up to 575/600 V according to UL • 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 Standard Faults up to 575/600 V according to UL • usable for Standard Faults at inside-delta circuit up • For Standard Faults at inside-delta circuit up • Type: Class RK5 / K5, max. 400 A; Iq = 10 KA	tightening torque		
tightening torque (Ibfin)  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • during parallel at the parallel and transport  • during parallel and coording to IEC 60721  • during paraport according to IEC 60721  • PROF interest and and and the parallel	<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m	
tightening torque [lbf-in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  Ambient conditions  Installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during storage and transport  • during storage and transport  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • Communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS  PROFIBUS  Tyes  Modbus RTU  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedefilat circuit according to UL  — usable for Standard Faults at 460/480 V at insidedefilat circuit according to UL  — usable for Standard Faults at 460/480 V at insidedefilat circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at insidedefilat circuit according to UL  — usable for Standard 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 according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at the Standard Faults at 575/600 V according to UL  — usable for Standard Faults at the Standard 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 according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600	,	0.8 1.2 N·m	
• for main contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals • for auxillary and control contacts with screw-type terminals  Installation altitude at height above sea level maximum  ambient temperature • during operation • during operation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Committed interference    Communication module is supported   PROFINET standard   PROFINET standard   PROFINET standard   PROFINET standard   PROFINET standard   PROFINET standard Faults at 460/480 V according to UL   Usable for Standard Faults at 460/480 V according to UL   Usable for Standard Faults at 460/480 V at inside-delta circuit according to UL   Usable for Standard 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 according to UL   Usable for Standard Faults at 575/600 V according to UL   Usable for Standard Faults at 575/600 V according to UL   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 Standard Faults up to 575/600 V according to UL   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 Standard Faults up to 575/600 V according to UL   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 Standard Faults up to 575/600 V according to UL   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 Standard Faults u			
For auxiliary and control contacts with screw-type terminals  Ambient conditions  Installation altitude at height above sea level maximum  ambient temperature     during operation     during operation     during storage and transport  environmental category     during storage and transport  eduring storage according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721     during transport according to IEC 60721  EMC emitted interference  Communication Protocol  Communication module is supported     PROFINET standard     PROFINET standard     PROFINET standard     PROFINET standard     PROFINET standard     Separation according to UL     Jusable for Standard Faults at 460/480 V according to UL     Jusable for Standard Faults at 460/480 V at inside-delta circuit according to UL     Jusable for Standard Faults at 575/600 V acco		89 124 lhf-in	
Amblent conditions installation altitude at height above sea level maximum  amblent temperature  • during storage and transport  • during storage and transport  • during storage and ransport  • during storage according to IEC 60721  EMC emitted interference  • during transport according to IEC 60721  EMC emitted interference  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFINET standard  • PROFIBUS  • PROFIBUS   * PROFIBUS  * Yes  • PROFIBUS  * Yes  • PROFIBUS  * Yes  * Siemens type: 3VA52, max. 250 A; Iq = 10 kA  * Siemens type: 3VA5	• •		
Installation altitude at height above sea level maximum  ambient temperature  during operation during storage and transport  during operation according to IEC 60721 during operation according to IEC 60721  during storage according to IEC 60721 during storage according to IEC 60721  during storage according to IEC 60721  during transport according to IEC 60721  during transport according to IEC 60721  EMC emitted interference  PROFINET standard EtherNet/IP PROFINET standard PROFINET standard  Tyes  Modbus TCP PROFINET standard Fulls at 460/480 V according to UL  Jusable for Standard Faults at 460/480 V at insidedelta circuit according to UL  Jusable for Standard Faults at 457/600 V according to UL  Jusable for Standard Faults at 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults up to 575/600 V according to UL  Jusable for Standard Faults at facility a		7 1V.V IVI III	
Installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • EMC emitted interference  communication in module is supported  • PROFINET standard  • EtherNevIIP  • Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS  * Yes  * PROFIBUS  * Yes  * PROFIBUS  * Yes  * Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Siemens type: SVA52, max. 250 A; Iq = 10 kA  Siemens type: Class RK5 / K5,	Ambient conditions		
amblent temperature  • during operation • during storage and transport  • during storage and transport  • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • EMC emitted interference  Communication/ Protocol  Communication/ Protocol  Communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS • Modbus RTU • Modbus RTU • Modbus TCP • Yes • PROFIBUS  ULCSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — 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 Standard Faults up to 575/600 V according to UL — 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 Standard Faults up to 575/600 V according to UL — 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 Standard Faults up to 575/600 V according to UL — 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 Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up  Type: Class RK5 / K5, max. 400 A; Iq = 10 KA  Type: Class RK5 / K5, max. 400 A; Iq = 10 KA	installation altitude at height above sea level maximum	5 000 m: Derating as of 1000 m. see catalog	
during operation during storage and transport  environmental category during operation according to IEC 60721  during storage according to IEC 60721  during transport according to IEC 60721  during transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication/ Protocol  communication module is supported  PROFINET standard PROFINET standard PROFINET standard PROFINET standard  PROFINED  Modbus RTU  Res  History operation according to IEC 60721  Aves  Siemens type: 3VA52, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA			
oluring storage and transport     oluring operation according to IEC 60721     oluring operation according to IEC 60721     oluring storage according to IEC 60721     oluring storage according to IEC 60721     oluring transport according to	•	-25 +60 °C: Please observe derating at temperatures of 40 °C or above	
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during transport according to IEC 60721  EMC emitted Interference  communication/ Protocol  communication/ Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFIBUS  PROFIBUS  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit according to UL  — usable for Standard Faults up to 575/600 V ac			
during operation according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721  EMC emitted interference  Communication/Protocol  communication module is supported     PROFINET standard     PROFINET standard     PROFINET standard     PROFIBUS     PROFIBUS     PROFIBUS  Tyes  Modbus RTU     Yes     Modbus TCP     PROFIBUS  Tyes  manufacturer's article number  of circuit breaker  usable for Standard Faults at 460/480 V according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard 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 according to UL  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 Standard Faults up to 575/600 V according to UL  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 Standard Faults up to 575/600 V according to UL  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 Standard Faults up to 575/600 V according to UL  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 Standard Faults up to 575/600 V according to UL  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 Standard 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		10 100 0	
(sand must not get into the devices), 3M6  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  Communication Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFIBUS  • Modbus RTU  • Modbus TCP  • PROFIBUS  * Yes  • Modbus TCP  • PROFIBUS  * Yes  • Of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard 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 according to UL  — usable for Standard 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 according to UL  — usable for Standard 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 according to UL  — usable for Standard 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 according to UL  — usable for Standard 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 according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults 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 according to UL  — usable for Standard 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 according to UL  — usable for Standard Faults at inside-delta circui		3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2	
inside the devices), 1M4  • during transport according to IEC 60721  ZK2, 2C1, 2S1, ZM2 (max. fall height 0.3 m)  EMC emitted interference acc. to IEC 60947-4-2: Class A  Communication Module is supported  • PROFINET standard • PROFINET standard • PROFINET standard • PROFISUS • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults 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 Standard Faults up to 575/600 V according to UL — 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 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 High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — Usable for High Faults up to 575/600 V according to UL — Usable for High Faults up to 575/600 V according to UL — Usable for High Faults up to 575/600 V according to UL — Usable for High Faults up to 575/600 V according to UL — Usable for High Faults up to 575/60	a during operation according to 120 cor21		
EMC emitted interference acc. to IEC 60947-4-2: Class A  Communication module is supported  PROFINET standard EherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS  Ves PROFIBUS  Ves PROFIBUS  Ves Ves Ves Ves Ves Ves Ves Ves Ves Ve	<ul> <li>during storage according to IEC 60721</li> </ul>		
Communication Protocol  communication module is supported  PROFINET standard Pres EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS  Wes PROFIBUS  Wes PROFIBUS  Wes  IL/CSA ratings  manufacturer's article number  of circuit breaker  usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at insidedlat circuit according to UL usable for Standard Faults at 460/480 V at insidedlat circuit according to UL usable for Standard Faults at 460/480 V at insidedlate circuit according to UL usable for Standard Faults at 460/480 V at insidedlate circuit according to UL usable for Standard Faults at 455/600 V according to UL usable for Standard Faults at 575/600 V according to UL usable for Standard Faults at 575/600 V at insidedlate circuit according to UL usable for Standard Faults up to 575/600 V at insidedlate circuit according to UL usable for Standard Faults up to 575/600 V according to UL usable for Standard Faults up to 575/600 V according to UL Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class BK5 / K5, max. 400 A; Iq = 10 kA Type: Class BK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA Type: Class RK5 / K5, max. 400 A; Iq = 10 kA	<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  Pres  Modbus RTU  Modbus RTU  PROFIBUS  PROFIBUS  Wes  PROFIBUS  Wes  PROFIBUS  Wes  PROFIBUS  Wes  PROFIBUS  Wes  Wes  PROFIBUS  Wes  Wes  Wes  PROFIBUS  Wes  Wes  Wes  Wes  Wes  Wes  Wes  We	EMC emitted interference	acc. to IEC 60947-4-2: Class A	
PROFINET standard EtherNet/IP  Modbus RTU Modbus RTU Modbus TCP PROFIBUS Yes  Modbus TCP Yes PROFIBUS Yes  Yes  Yes  Yes  Yes  Yes  WL/CSA ratings  WL/CSA ratings  WARMING To Standard Faults at 460/480 V according to UL  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  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  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  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. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA	Communication/ Protocol		
EtherNet/IP  Modbus RTU  Yes  Modbus TCP  PROFIBUS  Tyes  PROFIBUS  Tyes  Tyes  Tyes  Tyes  Modbus TCP  Yes  PROFIBUS  Manufacturer's article number  of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults up to 575/600 V according to UL  — 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 Standard Faults	communication module is supported		
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Modbus TCP     PROFIBUS     Yes  UL/CSA ratings  manufacturer's article number     of circuit breaker	EtherNet/IP	Yes	
● PROFIBUS  The profibus Prof	Modbus RTU	Yes	
PROFIBUS  Washings  manufacturer's article number  of circuit breaker  usable for Standard Faults at 460/480 V according to UL  usable for Standard Faults at 460/480 V according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for High Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  usable for Standard Faults at 575/600 V according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  of the fuse  usable for Standard Faults up to 575/600 V according to UL  soft 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  you sable 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 Standard Faults up to 575/600 V according to UL  you sable for Standard Faults up to 575/600 V according to UL  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 10 kA	Modbus TCP	Yes	
manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for High Faults at 460/480 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  — usable for Standard Faults at 575/600 V at insidedelta 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 up to 575/600 V according to UL  — usable for Standar	PROFIBUS		
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<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> </ul> </li> <li>of the fuse         <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> </ul> </li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> </ul>	·		
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<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> </ul>		0' 1 0\/450 0-0 1	
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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  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA  Type: Class J / L, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA		Siemens type: 3VA52, max. 250 A; Iq max = 65 kA	
<ul> <li>delta circuit according to UL</li> <li>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</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 100 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> </ul>	· · · · · · · · · · · · · · · · · · ·	Siemens type: 3VA52, max. 250 A; lq = 10 kA	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> <li>Type: Class RK5 / K5, max. 400 A; Iq = 10 kA</li> </ul>		Siemens type: 3VA52, max. 250 A; lq = 10 kA	
according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up  Type: Class J / L, max. 350 A; Iq = 100 kA  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA	of the fuse		
UL  — usable for Standard Faults at inside-delta circuit up  Type: Class RK5 / K5, max. 400 A; Iq = 10 kA		Type: Class RK5 / K5, max. 400 A; Iq = 10 kA	
		Type: Class J / L, max. 350 A; Iq = 100 kA	
		Type: Class RK5 / K5, max. 400 A; lq = 10 kA	

<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 350 A; Iq = 100 kA	
operating power [hp] for 3-phase motors		
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	50 hp	
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	50 hp	
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	100 hp	
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	150 hp	
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp	
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	100 hp	
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	200 hp	
• at 575/600 V at inside-delta circuit at 50 °C rated value	250 hp	
contact rating of auxiliary contacts according to UL	R300-B300	
Safety related data		
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover	
electromagnetic compatibility	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



Confirmation

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5236-2TC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5236-2TC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-2TC05

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5236-2TC05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5236-2TC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5236-2TC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







