## **SIEMENS**

product brand name product category

Data sheet 3RW5246-6AC04

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 370 A, 24 V AC/DC Screw terminals Analog output

product category	Typhia 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>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, lq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	2x3NA3365-6; 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>	3NE1334-2; 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>	3NE3336; 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> <li>UL approval</li> </ul>	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	
for main current circuit	100 ms
- 101 main carront on care	

inculation voltage rated value	600 V
insulation voltage rated value degree of pollution	
impulse voltage rated value	3, acc. to IEC 60947-4-2 6 kV
blocking voltage of the thyristor maximum	1 600 V
	1 600 V
service factor	6 KV
surge voltage resistance rated value	O KV
maximum permissible voltage for protective separation	600 V
between main and auxiliary circuit	
shock resistance vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
	15 mm to 6 Hz; 2g to 500 Hz AC 53a
utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2	Q Q
Substance Prohibitance (Date)	02/15/2018
product function	02/13/2010
	Yes
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque      adjustable current limitation	Yes
adjustable current limitation     pump ramp down	Yes
pump ramp down     intrinsic device protection	Yes
intrinsic device protection     mater everlead protection	
motor overload protection     evaluation of thermister meter protection	Yes; Electronic motor overload protection  No
evaluation of thermistor motor protection     incide delta circuit	
• inside-delta circuit	Yes Yes
auto-RESET     manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
<ul><li>communication function</li><li>operating measured value display</li></ul>	Yes Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	150, 1 20 Have (adiabate) 7 c 10 v (paramotorizable with high reduce him)
operational current	
at 40 °C rated value	370 A
at 50 °C rated value	328 A
at 60 °C rated value	300 A
operational current at inside-delta circuit	
at 40 °C rated value	641 A
at 50 °C rated value	
at 60 °C rated value	568 A
- at ou o rated value	568 A 519 A
operating voltage	
operating voltage	519 A
operating voltage • rated value	519 A 200 480 V
operating voltage  • rated value  • at inside-delta circuit rated value	519 A 200 480 V 200 480 V
operating voltage  • rated value  • at inside-delta circuit rated value  relative negative tolerance of the operating voltage	519 A 200 480 V 200 480 V -15 %
operating voltage	519 A  200 480 V  200 480 V  -15 %  10 %
operating voltage     • 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	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %
operating voltage	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %
operating voltage     • 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 operating power for 3-phase motors	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %  10 %
operating voltage     • 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  operating power for 3-phase motors     • at 230 V at 40 °C rated value	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %  10 %
operating voltage     • 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 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	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %  10 %
operating voltage     • 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 operating power for 3-phase motors     • at 230 V at 40 °C rated value     • at 400 V at 40 °C rated value     • at 400 V at 40 °C rated value	519 A  200 480 V  200 480 V  -15 %  10 %  -15 %  10 %  10 %

olative negitive telegrapes of the energting fraguency	-10 %
elative positive tolerance of the operating frequency	10 %
idjustable motor current	400 4
at rotary coding switch on switch position 1	160 A
at rotary coding switch on switch position 2	174 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	188 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	202 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	216 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	230 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	244 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	258 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	272 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	286 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	300 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	314 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	328 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	342 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	356 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	370 A
• minimum	160 A
djustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	277 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	301 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	326 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	350 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	374 A
for inside-delta circuit at rotary coding switch on switch position 6	398 A
for inside-delta circuit at rotary coding switch on switch position 7	423 A
for inside-delta circuit at rotary coding switch on switch position 8      for inside delta circuit at rotary coding switch on switch	447 A
for inside-delta circuit at rotary coding switch on switch position 9     for inside delta circuit at rotary coding switch on switch	471 A 495 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	520 A
position 11  • for inside-delta circuit at rotary coding switch on switch	544 A
position 12  • for inside-delta circuit at rotary coding switch on switch	568 A
position 13 • for inside-delta circuit at rotary coding switch on switch	592 A
<ul><li>position 14</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	617 A
<ul><li>position 15</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	641 A
position 16	
at inside-delta circuit minimum	277 A
ninimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	123 W
• at 50 °C after startup	110 W
at 60 °C after startup	102 W
oower loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	5 575 W
• at 50 °C during startup	4 706 W
• at 60 °C during startup	4 157 W
ontrol circuit/ Control	

control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply 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	470 mA
inrush current by closing the bypass contacts maximum	7.6 A
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
nputs/ Outputs	
nputs/ Outputs number of digital inputs	1
·	
number of digital inputs	1
number of digital inputs number of digital outputs	1 3
number of digital inputs number of digital outputs  • not parameterizable	1 3 2
number of digital inputs number of digital outputs  • not parameterizable digital output version	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value installation/ mounting/ dimensions	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value installation/ mounting/ dimensions	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value stallation/ mounting/ dimensions mounting position	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value stallation/ mounting/ dimensions mounting position fastening method	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value installation/ mounting/ dimensions mounting position fastening method height	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 393 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value installation/ mounting/ dimensions mounting position  fastening method height width	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing 393 mm 210 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width depth	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing 393 mm 210 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A 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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1stallation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value stallation/ 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1  3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1  3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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 10 mm 100 mm 15 mm 5 mm 9.9 kg
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 width of connection bar maximum	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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 10 mm 100 mm 15 mm 5 mm 9.9 kg
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 control circuit • for connection bar maximum type of connectable conductor cross-sections	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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
number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value nstallation/ 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 control circuit • for control circuit width of connection bar maximum	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A  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

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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
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 terminals</li> </ul>	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
adming operation according to 120 co. 2.	(sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse	
usable for Standard Faults up to 575/600 V     according to UL	Type: Class J / L, max. 1200 A; Iq = 18 kA
— usable for High Faults up to 575/600 V according to	Type: Class J / L, max. 1200 A; Iq = 100 kA
UL  — usable for Standard Faults at inside-delta circuit up	Type: Class J / L, max. 1200 A; Iq = 18 kA
to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 1200 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	100 hp
• at 220/230 V at 50 °C rated value	125 hp
• at 460/480 V at 50 °C rated value	250 hp
at 200/208 V at inside-delta circuit at 50 °C rated value	200 hp
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	·
	200 hp
at 460/480 V at inside-delta circuit at 50 °C rated value  Contact rating of auxiliary contacts according to III.	450 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	IDOO IDOO YU
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

other



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=3RW5246-6AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5246-6AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-6AC04

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5246-6AC04\&lang=en}$ 

Characteristic: Tripping characteristics, I²t, Let-through current

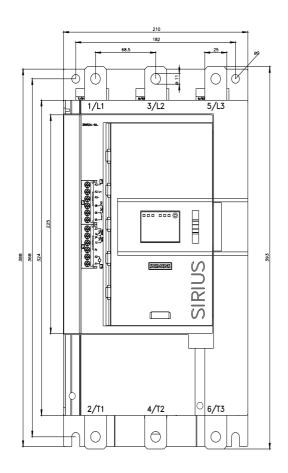
https://support.industry.siemens.com/cs/ww/en/ps/3RW5246-6AC04/char

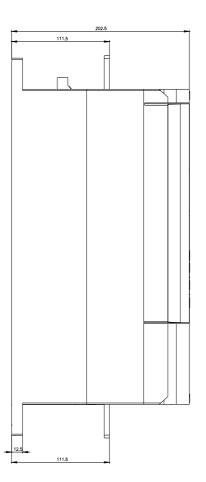
Characteristic: Installation altitude

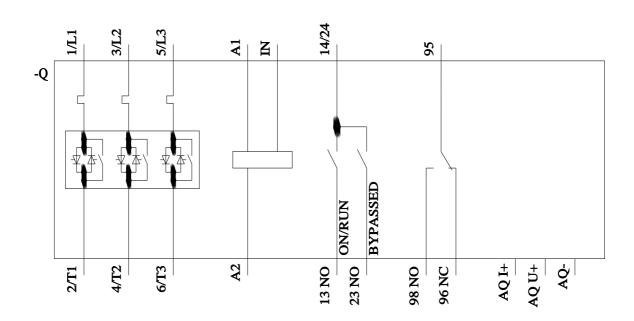
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5246-6AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 1/14/2023 🖸

