# **SIEMENS**

Data sheet 3RW5244-2TC04



SIRIUS soft starter 200-480 V 250 A, 24 V AC/DC spring-type terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid 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>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; 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>	3NE1331-0; 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>	3NE3336; Type of coordination 2, Iq = 65 kA

General 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	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	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
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	000.14
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	Vac
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down     intrincia dovice protection	Yes
intrinsic device protection     meter everland protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No Was
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	No
Power Electronics	
operational current	050.4
• at 40 °C rated value	250 A
at 50 °C rated value     at 60 °C rated value	220 A
at 60 °C rated value	200 A
operational current at inside-delta circuit	422 A
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	433 A 381 A
at 60 °C rated value     at 60 °C rated value	346 A
	υτυ Λ -
operating voltage  • rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	40.07
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>	75 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	132 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	132 kW
at 400 V at inside-delta circuit at 40 °C rated value	250 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	100 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	110 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	120 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	130 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	140 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	150 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	160 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	170 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	180 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	190 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	200 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	210 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	220 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	230 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	240 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	250 A
• minimum	100 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	173 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	191 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	208 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	225 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	242 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	260 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	277 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	294 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	312 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	329 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	346 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	364 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	381 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	398 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	416 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	433 A
at inside-delta circuit minimum	173 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	07 \\
• at 40 °C after startup	87 W
at 50 °C after startup	78 W

at 60 °C after startup	72 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	3 818 W
<ul> <li>at 50 °C during startup</li> </ul>	3 188 W
at 60 °C during startup	2 799 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	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
locked-rotor current at close of bypass contact	7.6 A
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	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay outputs	
<ul><li>at AC-15 at 250 V rated value</li></ul>	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm

weight without packaging	9.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
• for control circuit	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	0 (0.05 4.5 0)
• for control circuit solid	2x (0.25 1.5 mm²)
for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
at AWG cables for control circuit solid	2x (24 16)
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)
wire length	000
between soft starter and motor maximum     at the digital inputs at AC maximum	800 m
at the digital inputs at AC maximum     at the digital inputs at BC maximum	100 m
at the digital inputs at DC maximum  tightening targue	1 000 m
tightening torque	14 24 N·m
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	0.0 1.2 N III
tightening torque [lbf·in]	404 040 lbs:-
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> </ul>	124 210 lbf·in
Tor auxiliary and control contacts with screw-type	7 10.3 lbf·in
terminals	
terminals Ambient conditions	
terminals  Ambient conditions  installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	5 000 m; Derating as of 1000 m, see catalog
terminals  Ambient conditions  installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • during operation  • during storage and transport	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • during operation  • during storage and transport environmental category	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • during operation  • during storage and transport environmental category • during operation according to IEC 60721	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol communication module is supported	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • 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  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings manufacturer's article number	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
terminals  Ambient conditions installation altitude at height above sea level maximum ambient temperature  • 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  EMC emitted interference Communication/ Protocol  communication module is supported  • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes
terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • 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  EMC emitted interference  Communication/ Protocol  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for High Faults at 460/480 V according	5 000 m; Derating as of 1000 m, see catalog  -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65

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 High Faults up to 575/600 V according to UL

- usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL

- usable for High Faults at inside-delta circuit up to 575/600 V according to UL

Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA

Siemens type: 3VA54, max. 600 A; Iq = 18 kA

Type: Class J / L, max. 800 A; Iq = 18 kA

Type: Class J / L, max. 800 A; Iq = 100 kA

Type: Class J / L, max. 800 A; Iq = 18 kA

Type: Class J / L, max. 800 A; Iq = 100 kA

#### operating power [hp] for 3-phase motors

• at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value

• at 200/208 V at inside-delta circuit at 50 °C rated

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

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

60 hp

75 hp

150 hp

125 hp

150 hp

300 hp

contact rating of auxiliary contacts according to UL

R300-B300

### Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover

in accordance with IEC 60947-4-2

#### Certificates/ approvals

#### **General Product Approval**





**EMC** 

## **Declaration of Conformity**

**Test Certificates** 

Confirmation

Marine / Shipping





Type Test Certificates/Test Report







#### Marine / Shipping

other





Confirmation

#### **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2TC04

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5244-2TC04}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5244-2TC04&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5244-2TC04&lang=en</a>

Characteristic: Tripping characteristics, I²t, Let-through current <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC04/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC04/char</a>

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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

last modified: 4/10/2022 🖸