# **SIEMENS**

Data sheet 3RW5214-1TC04



SIRIUS soft starter 200-480 V 18 A, 24 V AC/DC Screw 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>	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3820-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3820-6; 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>	3NE1802-0: 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>	3NE8020-1; Type of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
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 is supported	
HMI-Standard	Yes
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	400
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  • 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 acc. to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	13.02.2010 00.00.00
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
• Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device 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
<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 Yes; in connection with the PROFINET Standard communication
PROFlenergy     Signature undete	module Yes
firmware update     removable terminal for control circuit	Yes
torque control	No
analog output	No
Power Electronics	110
operational current	
• at 40 °C rated value	18 A
at 50 °C rated value	16 A
at 60 °C rated value	14 A
operational current at inside-delta circuit	
at 40 °C rated value	31.5 A
at 50 °C rated value	28 A
• at 60 °C rated value	23.9 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	ADM
at 230 V at 40 °C rated value	4 kW

<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	7.5 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	7.5 kW
at 400 V at inside-delta circuit at 40 °C rated value	15 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>	7.5 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	8.2 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	8.9 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	9.6 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	10.3 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	11 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	11.7 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	12.4 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	13.1 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	13.8 A
at rotary coding switch on switch position 11	14.5 A
at rotary coding switch on switch position 12	15.2 A
at rotary coding switch on switch position 13	15.9 A
at rotary coding switch on switch position 14	16.6 A
at rotary coding switch on switch position 15	17.3 A
at rotary coding switch on switch position 16	18 A
• minimum	7.5 A
adjustable motor current	40.4
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	13 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	14.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	15.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	16.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	17.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	19.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	20.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	21.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	22.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	23.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	25.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	26.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	27.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	28.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	30 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	31.2 A
at inside-delta circuit minimum	13 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	17 \\
• at 40 °C after startup	17 W 17 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> </ul>	17 W 16 W
■ at oo to aiter startup	TO VV

power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	276 W
<ul> <li>at 50 °C during startup</li> </ul>	241 W
at 60 °C during startup	200 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
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply	10 %
voltage frequency	
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	360 mA
locked-rotor current at close of bypass contact maximum	0.75 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
Inputs/ Outputs	
number of digital inputs	1
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
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
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on
	vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
<ul><li>forwards</li></ul>	10 mm
<ul><li>backwards</li></ul>	0 mm
<ul><li>upwards</li></ul>	100 mm
<ul><li>downwards</li></ul>	75 mm
• at the side	5 mm

weight without packaging	2.1 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
• for control circuit	screw-type terminals
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
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
<ul> <li>at AWG cables for main current circuit solid</li> </ul>	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	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>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	40 00 lbf in
for main contacts with screw-type terminals	18 22 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	, , , , , , , , , , , , , , , , , , , ,
ambient temperature  ● during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
•	-25 +60 °C; Please observe derating at temperatures of 40 °C or
during operation      during storage and transport     environmental category	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul><li>during operation</li><li>during storage and transport</li></ul>	-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
during operation      during storage and transport  environmental category	-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
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation acc. to IEC 60721</li> </ul>	-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
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> </ul>	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721	-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)
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference	-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)
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol	-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)
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference Communication/ Protocol communication module is supported	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP	-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
during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721      during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     Modbus RTU	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     Modbus RTU     Modbus TCP	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings	-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
during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. 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	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721      during storage acc. to IEC 60721      during transport acc. to IEC 60721      during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     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	-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
during operation     during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721      during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported     PROFINET standard     EtherNet/IP     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 High Faults at 460/480 V according	-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: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65

— usable for Standard Faults at 575/600 V according to UL

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

#### of the fuse

— usable for Standard Faults up to 575/600 V according to UL

— usable for High Faults up to 575/600 V according to UL

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

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

Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA

Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA

Type: Class RK5 / K5, max. 70 A; Iq = 5 kA

Type: Class J / L, max. 70 A; Iq = 100 kA

Type: Class RK5 / K5, max. 70 A; Iq = 5 kA

Type: Class J / L, max. 70 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

 $\bullet$  at 200/208 V at inside-delta circuit at 50  $^{\circ}\text{C}$  rated value

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

 $\bullet$  at 460/480 V at inside-delta circuit at 50  $^{\circ}\text{C}$  rated value

3 hp

5 hp

10 hp 7.5 hp

.

7.5 hp

20 hp

contact rating of auxiliary contacts according to UL

R300-B300

### Safety related data

touch protection on the front acc. to IEC 60529
touch protection on the front acc. to IEC 60529
electromagnetic compatibility

IP20 finger-safe, for vertical contact from the front in accordance with IEC 60947-4-2

Certificates/ approvals

# **General Product Approval**

**EMC** 

Declaration of Conformity













**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











#### 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=3RW5214-1TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5214-1TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1TC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5214-1TC04&lang=en

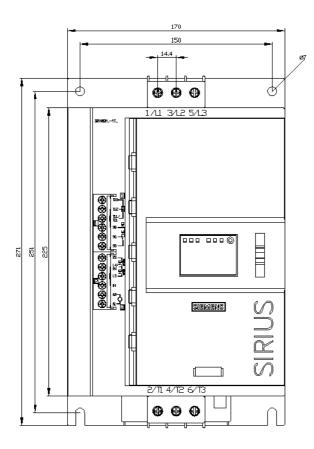
Characteristic: Tripping characteristics, I²t, Let-through current <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1TC04/char">https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-1TC04/char</a>

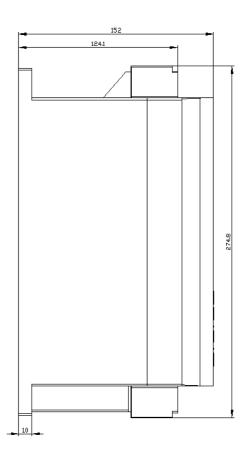
Characteristic: Installation altitude

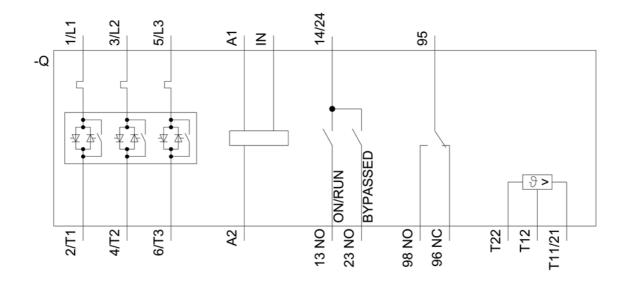
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5214-1TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 8/10/2021 🖸