# **SIEMENS**

Data sheet 3RW5514-1HF04



SIRIUS soft starter 200-480 V 18 A, 24 V AC/DC Screw terminals Fail-safe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
<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
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	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
• of the gG fuse usable at inside-delta circuit up to 500 V	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
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	<u>3RT2027</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	3RT2027
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	<u>3RT2035</u>
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	<u>3RT2035</u>
eneral technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s

number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	- (-1300 o. 120 o 100 . 12)
• CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	103
HMI-High Feature	Yes
-	Yes
is supported HMI-High Feature  product feature integrated bypass contact system	Yes
. , , , , , , , , , , , , , , , , , , ,	3
number of controlled phases trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
•	10 60 %
current unbalance limiting value [%]	10 95 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	100 mg
for main current circuit	100 ms
• for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 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	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/22/2019
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul><li>pump ramp down</li></ul>	Yes
DC braking	Yes
<ul> <li>motor heating</li> </ul>	Yes
slave pointer function	Yes
• trace function	Yes
• intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
operating measured value display	Yes
event list	Yes
error logbook	Yes
-	Yes
via software parameterizable      via software configurable	Yes
via software configurable     corou terminal	
screw terminal     apring leaded terminal	Yes
	No
<ul><li>spring-loaded terminal</li><li>PROFlenergy</li></ul>	Yes; in connection with the PROFINET Standard and PROFINET High-Feature

	V
• firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
• torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul><li>application wizards</li></ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	18 A
• at 40 °C rated value minimum	3.5 A
• at 50 °C rated value	15.9 A
• at 60 °C rated value	13.8 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	
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
• at 400 V at 40 °C rated value	7.5 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	15 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Operating frequency 2 rated value relative negative tolerance of the operating frequency	60 Hz -10 %
relative negative tolerance of the operating frequency	60 Hz -10 % 10 %
	-10 %
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	-10 % 10 %
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	-10 % 10 %
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC	-10 % 10 % 10 %; Relative to set le
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC  • at 40 °C after startup	-10 % 10 % 10 %; Relative to set le 5 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup	-10 % 10 % 10 %; Relative to set le 5 W 5 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %	-10 % 10 % 10 %; Relative to set le 5 W 5 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup	-10 % 10 % 10 %; Relative to set le  5 W 5 W 4 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup	-10 % 10 % 10 %; Relative to set le  5 W 5 W 4 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup	-10 % 10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage at AC	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  relative negative tolerance of the control supply voltage at	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup • at 50 °C after startup  • at 60 °C after startup  power loss [W] at AC at current limitation 350 %  • at 40 °C during startup  • at 50 °C during startup  • at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor  AC/DC  24 V 24 V
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]  power loss [W] for rated value of the current at AC  at 40 °C after startup  at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 50 Hz	-10 % 10 %; Relative to set le  5 W 5 W 4 W  266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor  AC/DC  24 V 24 V -20 %

AC at 60 Hz	
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	420 mA
holding current in bypass operation rated value	820 mA
inrush current by closing the bypass contacts maximum	0.91 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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	4
with fail-safe	1
parameterizable	4
number of digital outputs	3
Number of digital outputs with fail-safe	1
number of digital outputs parameterizable	2
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	2.3 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	5.5 Spo tominato
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 mini- maximum      with conductor cross-section = 1.5 mm² maximum	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)
for AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
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
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 terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	18 22 lbf-in
for auxiliary and control contacts with screw-type	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	2 000 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	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must 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	
<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
<ul><li>Modbus TCP</li></ul>	
	Yes
• PROFIBUS	Yes Yes
• PROFIBUS	
PROFIBUS  UL/CSA ratings	
PROFIBUS  UL/CSA ratings  manufacturer's article number	
PROFIBUS  UL/CSA ratings  manufacturer's article number  of circuit breaker  usable for Standard Faults at 460/480 V according to UL	Yes  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 to UL  usable for Standard Faults at 460/480 V at inside-	Yes
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 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 inside-delta	Yes  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA
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 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 Standard Faults at 575/600 V according	Yes  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 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 Standard Faults at 575/600 V according to UL  usable for High Faults at 575/600 V at insidedelta	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA
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 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 Standard Faults at 575/600 V according to UL  usable for High 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	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 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 575/600 V according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  usable for High 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	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 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 Standard Faults at 575/600 V according to UL  usable for High 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  of the fuse  usable for Standard Faults up to 575/600 V	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 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 575/600 V according to UL  usable for Standard Faults at 575/600 V at insidedelta circuit according to UL  usable for High 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  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	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA
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 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 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  of the fuse  usable for Standard Faults up to 575/600 V according to UL	Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3VA51, max. 35 A; lq max = 65 kA  Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA  Type: Class RK5 / K5, max. 70 A; lq = 5 kA

operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	3 hp
• at 220/230 V at 50 °C rated value	5 hp
• at 460/480 V at 50 °C rated value	10 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	7.5 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	7.5 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	20 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Type B
B10d value	1 588 000
Safety Integrity Level (SIL)	
according to IEC 61508	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	С
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	60 %
average diagnostic coverage level (DCavg)	90 %
diagnostics test interval by internal test function maximum	1 000 s
PFHD with high demand rate according to EN 62061	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
safe state	Open load circuit
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
Cortificatos/ approvals	

## Certificates/ approvals General Product Approval





Confirmation







EMC

For use in hazardous locations

Declaration of Conformity

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report









#### Confirmation

#### **Further information**

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

https://press.siemens.com/qlobal/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=3RW5514-1HF04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5514-1HF04}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-1HF04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5514-1HF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

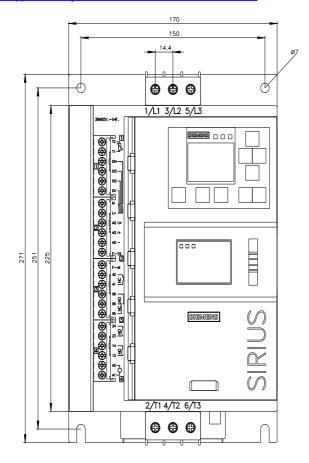
https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-1HF04/char

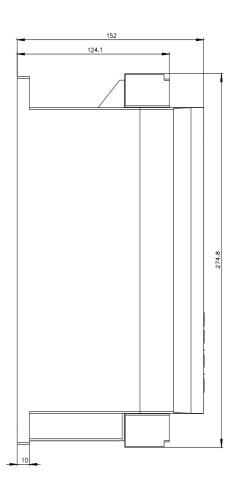
Characteristic: Installation altitude

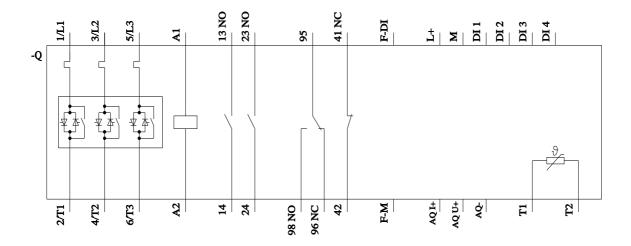
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5514-1HF04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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