# **SIEMENS**

product brand name

Data sheet 3RW5515-1HF14

SIRIUS



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC, Screw terminals Fail-safe





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>	<u>3RW5980-0HF00</u>
<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>	<u>3RW5980-0CT00</u>
<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>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4VA10; Type of coordination 1, lq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4VA10; Type of coordination 1, lq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3822-6; 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>	3NE1817-0; 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>	3NE8021-1; Type of coordination 2, Iq = 65 kA
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN 62061</li> </ul>	3RT2035
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN 62061</li> </ul>	3RT2035
<ul> <li>of the redundant contactor for applications &gt; SIL 1 according to EN ISO 13849-1</li> </ul>	3RT2036
<ul> <li>of the redundant contactor for applications &gt; SIL 1 at inside-delta circuit according to EN ISO 13849-1</li> </ul>	<u>3RT2036</u>
General 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 %
<u> </u>	

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	o (based off iEo offss7-12)
• CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	165
·	Yes
HMI-High Feature     is supported HMI High Feature	Yes
is supported HMI-High Feature  Product feature integrated hypers contact quater	Yes
product feature integrated bypass contact system	
number of controlled phases	3
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	400
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
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Diboron trioxide - 1303-86-2 Lead titanium trioxide - 12060-00-3
Weight	3.217 kg
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
• pump ramp down	Yes
	100
<ul> <li>DC braking</li> </ul>	Yes
<ul><li>DC braking</li><li>motor heating</li></ul>	
	Yes
motor heating	Yes Yes
<ul><li> motor heating</li><li> min/max pointer</li><li> trace function</li></ul>	Yes Yes Yes
<ul><li>motor heating</li><li>min/max pointer</li></ul>	Yes Yes Yes Yes
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> </ul>	Yes Yes Yes Yes Yes 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.
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> </ul>	Yes Yes Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> </ul>	Yes Yes Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> </ul>	Yes Yes Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes
<ul> <li>motor heating</li> <li>min/max pointer</li> <li>trace function</li> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> </ul>	Yes Yes Yes Yes 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. Yes; Type A PTC or Klixon / Thermoclick Yes Yes Yes Yes

<ul><li>error logbook</li></ul>	Yes
<ul> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>via software configurable</li> </ul>	Yes
screw terminal	Yes
spring-loaded terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
-	Yes; 4 20 mA (default) / 0 10 V
analog output	Yes
programmable control inputs/outputs	Yes
condition monitoring	
automatic parameterisation	Yes
application wizards     alternative run dayun	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	25 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	5 A
<ul> <li>at 50 °C rated value</li> </ul>	22.3 A
at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	43.3 A
<ul> <li>at 50 °C rated value</li> </ul>	39 A
<ul> <li>at 60 °C rated value</li> </ul>	33.9 A
operating voltage	
rated value	200 480 V
<ul> <li>at inside-delta circuit rated value</li> </ul>	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 relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	5.5 kW
• at 230 V at inside-delta circuit at 40 °C rated value	11 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	11 kW
• at 400 V at inside-delta circuit at 40 °C rated value	18.5 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 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	8 W
at 50 °C after startup	7 W
at 60 °C after startup	6 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	364 W
at 50 °C during startup	309 W
at 60 °C during startup	262 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	are control atomic or the motor
type of voltage of the control supply voltage	AC
type of voltage of the control supply voltage	AU .

control supply voltage at AC	
● at 50 Hz	110 250 V
● at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
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 current in standby mode rated value	100 mA
holding current in bypass operation rated value	165 mA
inrush current by closing the bypass contacts maximum	0.2 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 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
<ul> <li>Number of digital outputs with fail-safe</li> </ul>	1
<ul> <li>number of digital outputs parameterizable</li> </ul>	2
number of digital outputs not parameterizable	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	
<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
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	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m

with conductor areas postion = 4.5 mans? magains una	450
with conductor cross-section = 1.5 mm² maximum      with conductor cross-section = 0.5 mm² maximum	150 m
with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	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	
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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
for 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
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
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	
tightening torque [lbf-in]	40 20 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	2 000 m; Derating as of 1000 m, see catalog
ambient temperature	2 555, Dordaing do or 1000 in, 500 oddalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during operation     during storage and transport	-40 +80 °C
environmental category	
	2K6 (no ico formation, only accessional condensation), 2C2 (no call mist), 2S2
<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
<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
during transport according to IEC 60721	inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
	· ·
during transport according to IEC 60721	· ·
during transport according to IEC 60721  Environmental footprint	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during transport according to IEC 60721     Environmental footprint     Siemens Eco Profile (SEP)	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
during transport according to IEC 60721     Environmental footprint     Siemens Eco Profile (SEP)     EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
during transport according to IEC 60721     Environmental footprint     Siemens Eco Profile (SEP)     EMC emitted interference     Communication/ Protocol	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
during transport according to IEC 60721     Environmental footprint     Siemens Eco Profile (SEP)     EMC emitted interference     Communication/ Protocol     communication module is supported	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request
during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference Communication/ Protocol  communication module is supported      PROFINET standard	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes
during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      PROFINET standard      PROFINET high-feature	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes
• during transport according to IEC 60721      Environmental footprint     Siemens Eco Profile (SEP)      EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings  manufacturer's article number	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings  manufacturer's article number      • of circuit breaker usable for Standard Faults	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes
• during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • 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	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature      • 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     — 60/480 V according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • 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      — at 460/480 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • 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      — 60/480 V at inside-delta circuit according to UL      — 60/480 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • PROFINET high-feature      • 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      — at 460/480 V at inside-delta circuit according to UL      — 60/480 V at inside-delta circuit according to UL      — at 575/600 V according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
• during transport according to IEC 60721  Environmental footprint Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature      • 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     — 60/480 V according to UL     — at 460/480 V at inside-delta circuit according to UL     — 60/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — 75/600 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — of the fuse	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — 60/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for High Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during transport according to IEC 60721      Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — at 460/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 80 A; Iq max = 65 kA Siemens type: 3RV2742, max.70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A; Iq max = 65 kA Siemens type: 3VA51, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA Type: Class RK5 / K5, max. 100 A; Iq = 5 kA Type: Class RK5 / K5, max. 100 A; Iq = 100 kA Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
• during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard     • PROFINET high-feature     • 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     — 60/480 V according to UL     — 60/480 V at inside-delta circuit according to UL     — at 575/600 V according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — at 575/600 V at inside-delta circuit according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for High Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up	Siemens EcoTech acc. to IEC 60947-4-2: Class A, Class B on request  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

operating power [hp] for 3-phase motors	
<ul><li>at 200/208 V at 50 °C rated value</li></ul>	5 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	7.5 hp
• at 460/480 V at 50 °C rated value	15 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	10 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	10 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
product function suitable for safety function	Yes
suitability for use	
<ul> <li>safety-related switching on</li> </ul>	No
<ul> <li>safety-related switching OFF</li> </ul>	Yes
safe state	Open load circuit
function test interval maximum	1 a
diagnostics test interval by internal test function maximum	1 000 s
stop category according to IEC 60204-1	0
B10d value	1 588 000
average diagnostic coverage level (DCavg)	90 %
MTTFd	39 a
IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	1
PFHD with high demand rate according to IEC 62061	1E-6 1/h
ISO 13849	
performance level (PL) according to ISO 13849-1	С
IEC 61508	
Safety Integrity Level (SIL)	
according to IEC 61508	SIL 1
safety device type according to IEC 61508-2	Type B
PFHD with high demand rate according to IEC 61508	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
Safe failure fraction (SFF)	60 %
hardware fault tolerance according to IEC 61508	0
T1 value of service life according to IEC 61508	20 a
Electrical Safety	
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
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
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]
Approvals Certificates	

General Product Approval







Confirmation





EMV

For use in hazardous locations

**Functional Saftey** 

**Test Certificates** 



<u>KC</u>





Type Examination Certificate Type Test Certificates/Test Report

### Marine / Shipping









Confirmation

other



Environment

## **Environment**



Environmental Confirmations

#### Further information

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=3RW5515-1HF14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5515-1HF14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-1HF14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5515-1HF14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-1HF14/char

Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5515-1HF14\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







