# **SIEMENS**

product brand name

product category

Data sheet 3RW5514-3HA14

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 18 A, 110-250 V AC spring-type terminals





h	rijania annianing aantaa
product designation	Soft starter
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
<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
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	
CE marking	Yes
UL approval	Yes

004	V
CSA approval	Yes
product component	V.
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
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	
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
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)	02/15/2018
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 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3
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
pump ramp down	Yes
DC braking	Yes
motor heating	Yes
<ul> <li>slave pointer function</li> </ul>	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.
<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
• communication function	Yes
operating measured value display	Yes
• event list	Yes
• error logbook	Yes
via software parameterizable	Yes
via software configurable	Yes
screw terminal	No
spring-loaded terminal	Yes
• PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes

<ul><li>removable terminal for control circuit</li><li>voltage ramp</li></ul>	Yes
voltage ramp	V.
	Yes
torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	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
at 230 V at inside-delta circuit at 40 °C rated value	7.5 kW
at 400 V at 40 °C rated value	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 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	5 W
at 50 °C after startup	5 W
at 60 °C after startup	4 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	266 W
at 50 °C during startup	229 W
at 60 °C during startup	188 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
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 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	43 A
maximum  duration of inrush current peak at application of control supply	1.6 ms
voltage	
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
parameterizable	4
number of digital outputs	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 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
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	
<ul><li>forwards</li></ul>	10 mm
• backwards	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	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	spring-loaded terminals
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
• with conductor cross-section = 1.5 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)
<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>	2x (0.25 1.5 mm²)
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
for AWG cables for control circuit finely stranded with	2x (24 16)
<ul><li>for control circuit solid</li><li>for control circuit finely stranded with core end processing</li></ul>	2x (0.25 1.5 mm²)
for AWG cables for control circuit finely stranded with core end processing      wire length	2x (24 16)

during transport according to IEC 60721   ZK2, ZC1, ZS1, ZMZ (max. fall height 0.3 m)		
tightering torque  • for man contacts with screw-type terminals • for man contacts • for	<ul> <li>between soft starter and motor maximum</li> </ul>	
• for main contacts with screw-type terminals • for such grows (IBt-In) • for main contacts with screw-type terminals • for main contacts • during operation • during storage and transport • during operation • during storage and transport • duri	at the digital inputs at DC maximum	1 000 m
e for auxiliary and control contacts with screw-type terminals  tightening torque [lbf-in]  e for main contacts with screw-type terminals  e for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation attitude at height above sea level maximum  ambient temperature  e using operation  e using storage and transport  onvironmental category  e during storage according to IEC 60721  Environmental Cooprint  Siemens Eco Porfile (EEP)  ENC emitted interference  communication module is supported  e Edertheliar  e PROFINET inigh-feature  e Edertheliar  e PROFINET standard  e PROFINES  standard Faults us to standard faults  e Standard Faults us to 57600 V according to UL  e standard Faults us to 57600 V according to UL  e Usable for Standard Faults us to 57600 V according to UL  e Usable for Standard Faults us to 57600 V according to UL  e Usable for Standard Faults us to 57600 V according to UL  e Usable for Standard Faults at inside-delta circuit according to UL  e Usable for Standard Faults at inside-delta circuit according to UL  e Usable for	tightening torque	
terminals  ightening torque (Diffin)  • for main contacts with screw-type terminals  • for suiting and control contacts with screw-type eminals  Anhierit conditions  installation allitude at height above sea level maximum  ambient temperature  • during operation  • during peration  • during operation according to IEC 60721  • during parage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  Environmental footprint  Simmans Eco Profile (SEP)  Environmental footprint  Simmans Eco Profile (SEP)  Simmans Eco Profile	<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
tightening torque [lbfrin]  • for main contracts with screw-type terminals • for main contracts with screw-type terminals • for main contracts with screw-type • christian of the provided of	, ,,	0.8 1.2 N·m
• for main contacts with screw-type terminals - for suiting and control contacts with screw-type terminals - for main contacts with screw-type terminals - for main contacts with screw-type terminals - mistallation altitude at height above sea level maximum - ambient temperature - during peration - during peration - during peration according to IEC 60721 - during storage according to IEC 60721 - during s		
Ambient conditions Installation althude at height above sea level maximum ambient temperature  - during operation - during dargea and transport - during operation according to IEC 60721 - during storage according to IEC 60721 - Siemens Eco Profile (SEP) - Siemens Eco Profil		40 00   -5 :
Ambient conditions  Installation offitude at height above sea level maximum  ambiorit temperature  during operation  during operation according to IEC 60721  during direct profits (SEP)  Silemens Eco Profile (SEP)  Silemens Eco Tech  acc. to IEC 60947-4-2: Class A, Class B on request  PROFINET high-feature  PROFINET signified for Profile Out Inside delta circuit according to UL.  God/480 V a inside-delta circuit according to UL.  God/480 V according	•••	
Ambient conditions installation altitude at height above sea level maximum ambient temperature  - during operation - during storage and transport - during operation according to IEC 60721 - during storage according to IEC 60721 - during storage according to IEC 60721 - during transport according to IEC 60721 - Siemens Eco Profile (SEP) - Modbus RTU - PROFINET high-deature - PROFINET standard		7 10.3 lbf·in
installation slittude at height above sea level maximum  ambinut temperature  during preparation according to EC 60721  eduring operation according to IEC 60721  during storage according to IEC 60721  during transport according to IEC 60721  during transport according to IEC 60721  ENVironmental Ecotopriat  Sizemes Exp Profile (SEP)  Siemens Exp Profile (SEP)  ENC emitted interference  communication module is supported  PROFINET standard  PROFINET s		
ambient temperature  • during operation • during storage and transport • during operation according to IEC 60721 • during poration according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721  * during transport according to IEC 60721  * Environmental Fodgrint  Silemens Eco Profile (SEP)  * EMC emitted interference  * Communication module is supported • PROFINET standard • PROF		5 000 m; Derating as of 1000 m, see catalog
during poration     eduring storage and transport     environmental category     eduring storage according to IEC 60721     eduring transport according to IEC 60721     Environmental floatprint  Siemens Eco Profile (SEP)     Siemens EcoTech     acc, to IEC 60947-4-2: Class A, Class B on request     communication Protocol     communication Protocol     etherNet/IP     environmental floating Protocol		- Cooking as of 1000 m, see catalog
- during storage and transport  - during peration according to IEC 60721  - during storage according to IEC 60721  - during transport according to IEC 60721  - during transport according to IEC 60721  - during transport according to IEC 60721  - Environmental footprint  Siemens Eco Profile (SEP)  - EMC emitted Interference  - Communication Protocol  - Communication Protocol  - PROFINET standard  - PROFINET standard  - PROFINET standard  - PROFINET ingh-feature  - Ether-RutiP  - Modbus RTU  - Modbus RTU  - Modbus RTU  - Modbus TCP - PROFINES  - at 460/480 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  - 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 up to 575/600 V 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 up to 575/600 V 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 up to 575/600 V 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 up to 575/600 V 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 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		-25 +60 °C: Please observe denating at temperatures of 40 °C or above
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  Environmental footprint  Siemens Eco Profile (SEP)  Siemens Eco Tech acc. to IEC 60947-4-2: Class A, Class B on request Communication module is supported  PROFINET Ingh-Resture  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y		•
during operation according to IEC 60721     during storage according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on request 60741     during transport according to IEC 60947-4-2: Class A, Class B on reques		
• during storage according to IEC 60721     • during transport according to IEC 60721     • during transport according to IEC 60721     • during transport according to IEC 60721     • Environmental footprint  Siemens Eco Profile (SEP)     • Siemens Eco Tech     • Siemens Eco Tech     • Communication Protocol  Communication Protocol  Communication Protocol  Communication Module is supported  • PROFINET standard     • PROFINET high-feature     • EtherNet/IP     • Modobus RTU     • Modobus RTU     • Modobus RTU     • A tab/0480 V according to UL     • 60/480 V at inside-detta circuit according to UL     • at 460/480 V according to UL     • at 575/600 V according to UL     • at 575/600 V according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults at inside-detta circuit according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults according to UL     • of the fuse     • usable for Standard Faults at inside-delta circuit according to UL     • of the fuse     • usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     • of the fuse     • of the fu		3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
• during transport according to IEC 60721     Environmental footprint  Siemens Eco Profile (SEP)     Siemens Eco Teco     EMC emitted interference     acc. to IEC 60947-4-2: Class A, Class B on request  Communication / Protocol  communication / Protocol  communication / Protocol  communication / Protocol  e PROFINET standard     PROFINET standard     PROFINET standard     PROFINET standard     PROFINET standard     PROFIBUS     Yes     Hodous RTU     Add William    Wes     PROFIBUS     Yes  UCSA ratigos  manufacturer's article number     of circuit broaker usable for Standard Faults     —at 460/480 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 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     —ausable 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     —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     —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     —usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     —usable for Standard Faults at	• during operation according to IEC 60721	
Siemens Eco Profile (SEP)	<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 $$
Siemens Eco Profile (SEP)	<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	Environmental footprint	
communication module is supported  PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS Yes  IUCSA ratings  manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL — at 460/480 V according to UL — at 460/480 V at inside-delta circuit 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 — 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 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 Fligh 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 — 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 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  Operating power (Ip) for 3-phase motors  at 220/230 V at 50 °C rated value  at 220/230 V at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460/480 V at inside-delta circuit at 50 °C rated value  at 460	Siemens Eco Profile (SEP)	Siemens EcoTech
communication module is supported  PROFINET standard PROFINET standard PROFINET standard PROFINET high-feature  therefore in Modbus RTU Modbus RT Modbus RNZF742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA  Siemens type:	EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
PROFINET standard     PROFINET ingh-feature     EtherNet/IP     Modobus RTU     Yes     Modobus RTU     Yes     PROFIBUS     Yes	Communication/ Protocol	
PROFINET standard     PROFINET ingh-feature     EtherNet/IP     Modobus RTU     Yes     Modobus RTU     Yes     PROFIBUS     Yes	communication module is supported	
• PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS   ### Ves    Yes   Yes   Yes   Yes   Yes   Yes   PROFIBUS  ### Ves   Yes   UL/CSA ratings  #### manufacturer's article number   • of circuit breaker usable for Standard Faults   — at 460/480 V according to UL		Yes
EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS     Yes      Ves      Ve		Yes
Modbus RTU  Modbus TCP  PROFIBUS  Wes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	<u> </u>	
Nodbus TCP     PROFIBUS  Wes  TUCSA 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     — 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     — 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 up to 575/600 V according to UL     — usable for High 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     — usable for High 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     — 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     — 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     — 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     — at 220/238 V at 50 °C rated value     at 220/238 V at 50 °C rated value     at 480/480 V at 50 °C rated value     at 480/480 V at inside-delta circuit at 50 °C rated value     at 480/480 V at inside-delta circuit at 50 °C rated value     at 480/480 V at inside-delta circuit at 50 °C rated value     at 480/480 V at inside-delta circu		
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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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value		
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  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value  • at 800/480 V at inside-delta circuit at 50 °C rated value	according to UL	
to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 300/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 3 hp  5 hp  7.5 hp  8.600/800/800/800/800/800/800/800/800/800/	UL	
575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 220/230 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  • at 460/480 V at inside-delta circuit at 50 °C rated value  Electrical Safety	to 575/600 V according to UL	
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 300/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 300/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 300/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 50 °C rated</li></ul>		Type: Class J / L, max. 70 A; Iq = 100 kA
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/4</li></ul>	operating power [hp] for 3-phase motors	
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>R300-B300</li> </ul>	• at 200/208 V at 50 °C rated value	3 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>R300-B300</li> </ul>	• at 220/230 V at 50 °C rated value	5 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Electrical Safety</li> </ul> 7.5 hp 20 hp R300-B300	• at 460/480 V at 50 °C rated value	10 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value  contact rating of auxiliary contacts according to UL  R300-B300  Electrical Safety	• at 200/208 V at inside-delta circuit at 50 °C rated value	7.5 hp
contact rating of auxiliary contacts according to UL  R300-B300  Electrical Safety	• at 220/230 V at inside-delta circuit at 50 °C rated value	7.5 hp
Electrical Safety	• at 460/480 V at inside-delta circuit at 50 °C rated value	20 hp
Electrical Safety	contact rating of auxiliary contacts according to UL	R300-B300
·		
protection class if on the mont according to 150 00029	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	<u> </u>	
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







**General Product Ap-**

**EMV** 

For use in hazardous locations

**Test Certificates** 





<u>KC</u>



Type Test Certificates/Test Report









other

Confirmation

**Environment** 



## **Environment**





Environmental Con-firmations

### Further information

Information on the packaging

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=3RW5514-3HA14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5514-3HA14}}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HA14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5514-3HA14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

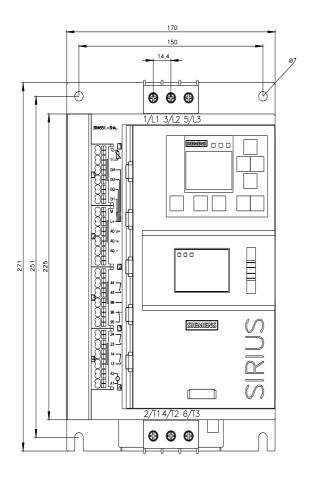
https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HA14/char

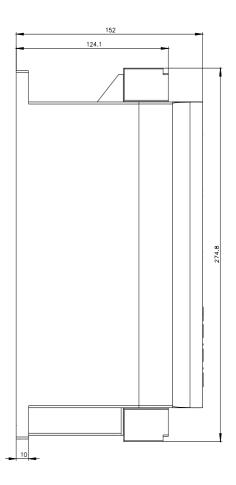
Characteristic: Installation altitude

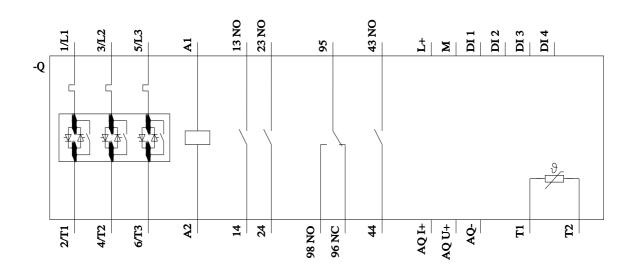
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5514-3HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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