## **SIEMENS**

product brand name

Data sheet 3RW5517-3HA14

SIRIUS



SIRIUS soft starter 200-480 V 38 A, 110-250 V AC spring-type terminals

product category	Hybrid switching devices
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
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	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>	3RV2032-4WA10; Type of coordination 1, lq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4WA10; Type of coordination 1, lq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3824-6; 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>	3NE1820-0; 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>	3NE8024-1; Type of coordination 2, Iq = 65 kA
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 %
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
CSA approval	Yes
product component	
HMI-High Feature	Yes
3RW55173HA14	Subject to change without notice

Simple of controlled phases		
inclease  CLASS 10A / 10E (celsus) / 20E / 30E; acc. to IEC 80947-4-2  tround-fault monitoring limiting value [Ys]  10 85 %  Information monitoring limiting value [Ys]  100 ms  4 for main current circuit  4 for control circuit  4 for control circuit  4 for control circuit  4 for control circuit  4 for main current circuit  4 for main current circuit  4 for control circuit  5 for main current circuit  4 for control circuit  5 for main current circuit  4 for control circuit  5 for main current circuit  6 for main current circuit  6 for main current circuit  6 for main current circuit  7 for main current circuit  6 for main current circuit  7 for main current circuit  7 for main current circuit  8 for main current circuit  8 for main current curren	product feature integrated bypass contact system	Yes
urrent unblance limiting value [%]  uffering time in the event of power failure  • for main currient circuit  for control circuit  is for main currient circuit  100 ms  • for control circuit  480 V  • for control circuit  • for grading rated value	number of controlled phases	3
round-fault monitoring limiting value [%]  ifformain current circuit  ifor control circuit  for main current circuit  ifor control circuit  for time adjustable  o. 255 s suitation voltage rated value gree of pollution  a) a, acc. tile C60947-4-2  purples voltage rated value  ok V  cocking voltage of the thyristor maximum  revice factor  1, 15  urg e voltage rated value  ok V  cocking voltage of the thyristor maximum  a voltage rated value  ok V  cocking voltage of the thyristor maximum  a voltage rated value  ok V  ok V  active factor  1, 15  urg e voltage rated value  ok V  cocking voltage of the thyristor maximum  between main and auxiliary circuit  cock resistance  15 gr / 11 ms, from 8 g / 11 ms with potential contract lifting  bration resistance  15 mm up to 6 14; 2 g up to 500 Hz  cockrey time after overload trip adjustable  16 gr / 11 ms, from 8 g / 11 ms with potential contract lifting  bration resistance  15 mm up to 6 14; 2 g up to 500 Hz  cockrey time after overload trip adjustable  16 gr / 11 ms, from 8 g / 11 ms with potential contract lifting  bration resistance  15 mm up to 6 14; 2 g up to 500 Hz  cockrey time after overload trip adjustable  16 gr / 11 ms, from 8 g / 11 ms with potential contract lifting  cockrey time after overload trip adjustable  16 gr / 11 ms, from 8 g / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential contract lifting  control of 15 gr / 11 ms with potential lifting  control of 15 gr / 11 ms with potential lifting  control of 15 gr / 11 ms with potential lifting  control of 15 gr / 11	trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
uffering time in the event of power failure  • for main current circuit  • for main current circuit  • for main current circuit  • for concider circu	current unbalance limiting value [%]	10 60 %
• for namic current circuit     • for control control     • for control circuit     • for control control     • for control circuit     • for control control     • for control	ground-fault monitoring limiting value [%]	10 95 %
for control circuit   to tem adjustable   0255 s	buffering time in the event of power failure	
Ille time adjustable    Sullation voltage rated value   480 V	for main current circuit	100 ms
saulation voltage rated value  gree of pollution  3, acc. to IEC 80947-4-2  6 kV  160cking voltage of the thyristor maximum  1 800 V  role of actor  1.15  1.5  1.6 kV  aximum permissible voltage for protective separation  2 between main and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuit  480 V; does not apply for themistor connection  1 between smain and auxiliary circuits  1 between smain and auxiliary circuits  2 between smain and auxiliary circuits  3 between smain and auxiliary circuits  4 between smain and a	for control circuit	100 ms
egree of pollution  3, acc. to IEC 60947-4-2  publis voltage rated value  6 KV  clocking voltage of the thyristor maximum  1 5000 V  ervice factor  1,15  Live go voltage rosistance rated value  8 kV  assimum permissible voltage for protective separation  between main and auxiliary circuit  8 kV v; does not apply for thermistor connection  hock resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  bration resistance  15 mm up to 6 Hz, 2 g up to 500 Hz  Covery time after overload trip adjustable  80 1800 s  80 180	idle time adjustable	0 255 s
incides workage rated value  of civing voltage of the thyristor maximum  of civing voltage or sistance rated value  of civing voltage or sistance rated value  of six voltage resistance rated value  of civing voltage or sistance  of six voltage rated value  of civing voltage or six voltage resistance  of six voltage rated value  of six voltage rate	insulation voltage rated value	480 V
locking voltage of the thyristor maximum  1800 V  ervice factor  1.15    Very voltage resistance rated value   SkV     SkW	degree of pollution	3, acc. to IEC 60947-4-2
ervice factor  1.15  6 kV  Maximum permissible voitage for protective separation  • between main and auxiliary circuit  • between main and auxiliary circuit  • between main and auxiliary circuit  • book resistance  15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  biration resistance  15 mm up to 6 Hz; 2 g up to 500 Hz  50 1 800 s  50 1 800 s  60 1 800 s	impulse voltage rated value	6 kV
urge voltage resistance rated value aximum permissible voltage for protective separation between amain and auxiliary circuit between and auxiliary circuit between after overload trip adjustable  001800 s  Illization category according to IEC 60947-4-2  AC 53a  serence code according to IEC 60947-4-2  AC 53a  serence code according to IEC 61346-2  Q  q  quistance Prohibitance (Date)  ozy15/2018  roduct function  • mamp-up (soft starling)  • reamp-down (soft stop)  • res • breakwary puble  • creep speed in both directions of rotation  • res • pump ramp down  • Creep speed in both directions of rotation  • res • pump ramp down  • Creep speed in both directions of rotation  • res • locate function  • locate function  • locate function  • starle function  • trace function  • trace function  • trace function  • exercity function  • exercity function  • exercity function  • resp. Full motor protection (thermistor motor protection and electronic motor overload protection  • resp. Full motor protection (thermistor motor protection and electronic motor overload protection)  • rest, Full motor protection (thermistor motor protection and electronic motor overload protection)  • rest, Full motor protection (thermistor motor overload protection and electronic motor overload protection)  • rest, Full motor protection (thermistor motor overload protection and electronic motor overload protection of thermistor motor protection and electronic motor overload protection of thermistor motor protection  • rest function  • evaluation of thermistor motor protection  • rest function  • respective function  • respecti	blocking voltage of the thyristor maximum	1 600 V
aximum permissible voltage for protective separation  • between main and auxiliary circuit  • bits of the second	service factor	1.15
between main and auxiliary circuit brock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting libration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz  convery time after overload trip adjustable 60 1 800 s  lilization category according to IEC 60947-4-2 AC 53a  forence code according to IEC 81346-2 Q  cubstance Prohibitance (Date)  oziferance code according to IEC 60947-4-2 AC 53a  forence code according to IEC 60947-4-2 AC 53a  forence code according to IEC 81346-2 Q  cutstance Prohibitance (Date)  oziferance code according to IEC 60947-4-2 AC 53a  forence code according to IEC 60947-4-4 AC 54  Forence code according to	surge voltage resistance rated value	6 kV
hock resistance biration resistance biration resistance biration resistance covery time after overload trip adjustable 601 800 s discense code according to IEC 80947-4-2 AC 53a defence code according to IEC 8346-2 Qubstance Prohibitance (Date) visatance Prohibitance (Prohibitance (Date) visatance Prohibitance (Prohibitance (Date) visatance Prohibitance (Prohibitance (Prohibi	maximum permissible voltage for protective separation	
Street   15 mm up to 6 Hz; 2 g up to 500 Hz	between main and auxiliary circuit	480 V; does not apply for thermistor connection
seovery time after overload trip adjustable  illization category according to IEC 60947-42  AC 53a ference code according to IEC 81346-2  ubstance Prohibitance (Date)  ozitifyzo18  roduct function  - (amp-up (soft starting)  - ramp-down (soft stop)  - breakaway pulse - adjustable current imitation  - creep speed in both directions of rotation  - pump ramp down - DC braking - motor heating - wes - sale pointer function - infinisc device protection - infinisc device protection - infinisc device protection - everiluation of thermistor motor protection - inside-delta circuit - evaluation of thermistor motor protection - inside-delta circuit - inside-delta circuit - inmanual RESET - remote reset - communication function - operating measured value display - event list - ever togobook - vias offware parameterizable - via software configurable - screw terminal - PROFlenergy - firmware update - removable terminal for control circuit - ves - removable terminal - PROFlenergy - vesi (son) - ves - removable terminal - removable terminal - rese - remova	shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
Illization category according to IEC 80947-4-2  AC 53a  ference code according to IEC 81346-2  Q  Quitispand Social Socia	vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
deference code according to IEC 81346-2  ubstance Prohibitance (Date)  oz/15/2018  ramp-up (soft starting)  · ramp-down (soft stop)  · ramp-down (	recovery time after overload trip adjustable	60 1 800 s
roduct function  in amp-up (soft starting) in tramp-up (soft starting) in transport starting (soft starting) in tramp-up (soft starting) in tr	utilization category according to IEC 60947-4-2	AC 53a
e l'amp-up (soft starting) e breakaway pulse e de disustable current limitation e reep speed in both directions of rotation e reep speed in both directions of rotation e l'exe e pump ramp down e l'exe e pump ramp down e l'exe e motor heating e slave pointer function e slave pointer function e ves e intrinsic device protection e intrinsic device protection e verse function e vesiquation of thermistor motor protection e evaluation of thermistor motor protection e evaluation of thermistor motor protection e vesiquation of thermistor motor protection e inside-delta circuit e vesiquation of thermistor motor protection e inside-delta circuit e vesiquation of thermistor motor protection e inside-delta circuit e vesiquation of thermistor motor protection e sudo-RESET e manual RESET e manual RESET e remote reset e remote reset e remote reset e vesiquation function e operating measured value display e verit list e remote prodook e verit list error (ogbook e ves e via software parameterizable yes e screw terminal e refore longbook e ves e screw terminal e removable terminal e PROFlenergy firmware update removable terminal for control circuit yes e removable terminal for control circu	reference code according to IEC 81346-2	Q
• ramp-up (soft starting) • ramp-down (soft stop) • ramp-down (soft stop) • ramp-down (soft stop) • reakaway pulse • adjustable current limitation • resp speed in both directions of rotation • pump ramp down • DC braking • motor heating • siave pointer function • intrinsic device protection • intrinsic device protection • motor overload protection • motor overload protection • evaluation of themistor motor protection • evaluation of themistor motor protection • inside-delta circuit • inside-delta circuit • manual RESET • manual RESET • remote reset • communication function • operating measured value display • event list • ever list • ever configorable • via software parameterizable • via software parameterizable • sirew terminal • profice delta circuit • remote reset • cerror logbook • via software parameterizable • via software parameterizable • via software parameterizable • removable terminal • PROFilenergy • removable terminal • PROFilenergy • removable terminal for control circuit • ves • venorting to manual (efault) / 0 10 V • programmable control inputs/outputs • Presquamerable control inputs/outputs	Substance Prohibitance (Date)	02/15/2018
• ramp-down (soft stop) • breakaway pulse • ramp-down (soft stop) • creep speed in both directions of rotation • creep speed in both directions of rotation • pump ramp down • Cob braking • motor heating • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • rotated function • respective for the stop of the motor overload protection and electronic motor overload protection • rotated function • r	product function	
breakaway pulse adjustable current limitation creep speed in both directions of rotation yes creep speed in both directions of rotation yes DC braking Yes motor heating slave pointer function trace function trace function trace function  intrinsic device protection  evaluation of thermistor motor protection inside-delta circuit suit-RESET manual RESET remote reset communication function operating measured value display event list error logbook via software parameterizable via software parameterizable via software parameterizable sorrer terminal PROFINET Standard and PROFINET Standard and PROFINET High-Feature communication function spring-loaded terminal PROFINET Standard and PROFINET High-Feature communication function spring-loaded terminal PROFINET Standard and PROFINET High-Feature communication function spring-loaded terminal PROFINET Standard and PROFINET High-Feature communication function spring-loaded terminal PROFINET Standard and PROFINET High-Feature communication modules yes combined braking analog output yes alse A 20 mA (default) / 0 10 V yes programmable control inputs/outputs	<ul><li>ramp-up (soft starting)</li></ul>	Yes
adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function trace function trace function intrinsic device protection motor overload protection motor overload protection trace function  evaluation of thermistor motor protection inside-delta circuit slave auto-RESET manual RESET manual RESET manual RESET remote reset communication function operating measured value display event list event list event list remotor parameterizable via software parameterizable sizes with spin-loaded terminal spin-loaded terminal spin-loaded terminal spin-loaded terminal FROFINET Standard and PROFINET High-Feature communication modules firmware update removable terminal for control circuit yes analog output yes analog output yes analog output yes yes	<ul><li>ramp-down (soft stop)</li></ul>	Yes
oreep speed in both directions of rotation     pump ramp down     Yes     DC braking     motor heating     Slave pointer function     trace function     trace function     trace function     trace function     yes     intrinsic device protection     motor overload protection     motor overload protection     wesize function     tevaluation of thermistor motor protection     inside-delta circuit     ves     auto-RESET     yes     manual RESET     yes     communication function     operating measured value display     event list     error logbook     via software parameterizable     via software configurable     screw terminal     spring-loaded terminal     PROFlenergy     firmware update     removable terminal for control circuit     ves     ves     vendue defaultion     ves     ves     voidage ramp     torque control     ves     ves     ves     vendue defaultion     ves     ves     voidage ramp     ves     ves     ves     ves     vendue defaultion     ves     ves     voidage ramp     ves     ves     ves     ves     ves     ves     void default) / 0 10 V     ves     ves     ves     ves     ves     ves     ves     voideful for control inputs/outputs     ves     ves     ves     ves     voideful for found inputs/outputs     ves	<ul> <li>breakaway pulse</li> </ul>	Yes
pump ramp down De Deraking Slave pointer function Itrace function Itrace function Intrinsic device protection and electronic motor overload protection and electronic motor overload protection intoin motor overload protection intoin devices ATEX, an upstream contactor is required in inside-delta circuit.  Yes Intrinsic device protection and electronic motor overload protection intoided	adjustable current limitation	Yes
DC braking     Yes     ontor heating     Slave pointer function     trace function     trace function     ves     intrinsic device protection     wotor overload protection     wotor overload protection     wotor overload protection     wotor overload protection     would be a protection of them both or overload protection and electronic motor     versity be a protection of the protectio	<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
motor heating slave pointer function trace function trace function intrinsic device protection motor overload protection tyes trace function yes intrinsic device protection tyes; 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 auto-RESET yes manual RESET yes remote reset yes communication function yes event list yes event list yes event list yes via software parameterizable yes sia software parameterizable yes screw terminal specification yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules removable terminal for control circuit yes removable terminal for control circuit yes voltage ramp torque control yes analog output yes; 420 mA (default) / 010 V yes programmable control inputs/outputs	<ul><li>pump ramp down</li></ul>	Yes
slave pointer function     trace function     trace function     intrinsic device protection     motor overload protection     west and protection     west and protection     west and protection     ves; 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.     ves; Type A PTC or Klixon / Thermoclick     inside-delta circuit     ves; Type A PTC or Klixon / Thermoclick     inside-delta circuit     ves     auto-RESET     yes     manual RESET     yes     communication function     operating measured value display     ves     vent list     ves     vent list     ves     via software parameterizable     via software configurable     via software configurable     screw terminal     spring-loaded terminal     ves     PROFlenergy     ves; in connection with the PROFINET Standard and PROFINET High-Feature communication modules     firmware update     removable terminal for control circuit     voltage ramp     torque control     combined braking     ves; 4 20 mA (default) / 0 10 V     programmable control inputs/outputs	DC braking	Yes
trace function     intrinsic device protection     motor overload protection     westland protection     westland protection     westland protection     westland protection     westland protection     westland protection     ves; 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     viauto-RESET     yes     emanual RESET     yes     remote reset     yes     communication function     operating measured value display     ves     event list     yes     event list     yes     via software parameterizable     via software parameterizable     via software configurable     screw terminal     spring-loaded terminal     PROFlenergy     yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules     firmware update     removable terminal for control circuit     yes     voltage ramp     torque control     voltage ramp     torque control     combined braking     analog output     yes     analog output     yes     value (default) / 0 10 V     yes; 4 20 mA (default) / 0 10 V     yes	<ul><li>motor heating</li></ul>	Yes
<ul> <li>intrinsic device protection</li> <li>motor overload protection</li> <li>Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)</li> <li>4 evaluation of thermistor motor protection</li> <li>evaluation of thermistor motor protection</li> <li>yes; Type A PTC or Klixon / Thermoclick</li> <li>inside-delta circuit</li> <li>yes</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>yes</li> <li>event list</li> <li>yes</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>spring-loaded terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>yes</li> <li>viatique control</li> <li>yes</li> <li>ovoltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>yes; 4 20 mA (default) / 0 10 V</li> <li>programmable control inputs/outputs</li> <li>yes</li> </ul>	<ul> <li>slave pointer function</li> </ul>	Yes
<ul> <li>motor overload protection</li> <li>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.</li> <li>evaluation of thermistor motor protection</li> <li>inside-delta circuit</li> <li>Yes</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>violage ramp</li> <li>torque control</li> <li>ves</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>20 mA (default) / 0 10 V</li> <li>programmable control inputs/outputs</li> </ul>	trace function	Yes
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 • inside-delta circuit • auto-RESET • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable • via software configurable • screw terminal • spring-loaded terminal • PROFlenergy • removable terminal for control circuit • voltage ramp • torque control • combined braking • analog output • programmable control inputs/outputs	<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>inside-delta circuit</li> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>ves</li> <li>yes</li> <li>yes</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>analog output inputs/outputs</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>analog output inputs/outputs</li> <li>yes</li> </ul>	motor overload protection	overload protection) / When using the motor overload protection according to
<ul> <li>auto-RESET</li> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>yes</li> <li>yes</li> <li>analog output (yes)</li> <li>yes</li> </ul>	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
<ul> <li>manual RESET</li> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>res</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>res</li> <l< td=""><td>• inside-delta circuit</td><td></td></l<></ul>	• inside-delta circuit	
<ul> <li>remote reset</li> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>Firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>otrque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>yes</li> <li>yes</li> <li>analog output</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>analog output</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>analog output</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>analog control inputs/outputs</li> <li>yes</li> </ul>	• auto-RESET	Yes
<ul> <li>communication function</li> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFIenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> </ul>	manual RESET	Yes
<ul> <li>operating measured value display</li> <li>event list</li> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> </ul>	• remote reset	Yes
<ul> <li>event list</li> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFIenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> </ul>	• communication function	Yes
<ul> <li>error logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>ves</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>Yes</li> <li>yes</li> <li>10 V</li> <li>yes</li> </ul>	operating measured value display	Yes
<ul> <li>via software parameterizable</li> <li>via software configurable</li> <li>via software configurable</li> <li>via software configurable</li> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>yes</li> <li>analog output</li> <li>programmable control inputs/outputs</li> </ul>	• event list	Yes
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<ul> <li>screw terminal</li> <li>spring-loaded terminal</li> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>No</li> <li>Yes</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>Yes</li> <li>Yes</li> <li>output</li> <li>Yes</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	·	Yes
<ul> <li>PROFlenergy</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	<u> </u>	No
<ul> <li>PROFlenergy</li> <li>Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	spring-loaded terminal	Yes
<ul> <li>removable terminal for control circuit</li> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> </ul> Yes <ul> <li>Yes</li> <li>20 mA (default) / 0 10 V</li> </ul>	PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
<ul> <li>voltage ramp</li> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> </ul> Yes	firmware update	Yes
<ul> <li>torque control</li> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>combined braking</li> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	voltage ramp	Yes
<ul> <li>analog output</li> <li>programmable control inputs/outputs</li> <li>Yes; 4 20 mA (default) / 0 10 V</li> <li>Yes</li> </ul>	torque control	Yes
programmable control inputs/outputs     Yes	<ul> <li>combined braking</li> </ul>	Yes
	analog output	Yes; 4 20 mA (default) / 0 10 V
• condition monitoring Yes	<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
	condition monitoring	Yes

automatic parameterisation	Yes
<ul> <li>application wizards</li> </ul>	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	38 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	7.5 A
<ul> <li>at 50 °C rated value</li> </ul>	33.5 A
at 60 °C rated value	30.5 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	65.8 A
<ul> <li>at 50 °C rated value</li> </ul>	58 A
• at 60 °C rated value	52.8 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 inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	11 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	18.5 kW
at 400 V at inside-delta circuit at 40 °C rated value	30 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	
<ul> <li>at 40 °C after startup</li> </ul>	11 W
<ul> <li>at 50 °C after startup</li> </ul>	10 W
at 60 °C after startup	9 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	616 W
<ul> <li>at 50 °C during startup</li> </ul>	511 W
at 60 °C during startup	447 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 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 by closing the bypass contacts maximum 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
parameterizable	4
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	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	1A
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	102 IIIIII
• forwards	10 mm
backwards	
	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
weight without packaging	2.6 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
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
• 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	
for control circuit solid	2x (0.25 1.5 mm²)
• for control circuit finely stranded with core end processing	2x (0.25 1.5 mm²)
<ul> <li>for AWG cables for control circuit solid</li> </ul>	2x (24 16)
for AWG cables for control circuit finely stranded with core end processing	2x (24 16)
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 analysis with a second of	40 00 lbt in
for main contacts with screw-type terminals     for a william and control contacts with corour type.	18 22 lbf-in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf-in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
3.4	(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
<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, Class B on request
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
<ul> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
<ul> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 150 A; Iq = 5 kA
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 150 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 150 A; Iq = 5 kA
<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 150 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	10 hp
• at 220/230 V at 50 °C rated value	10 hp
• at 460/480 V at 50 °C rated value	20 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	15 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	20 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	40 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
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

Certificates/ approvals

General Product Approval



Confirmation









**EMC** 

For use in hazardous locations

Declaration of Conformity

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

## **Further information**

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

https://press.siemens.com/global/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=3RW5517-3HA14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5517-3HA14}}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-3HA14

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5517-3HA14\&lang=en}}$ 

Characteristic: Tripping characteristics, I²t, Let-through current

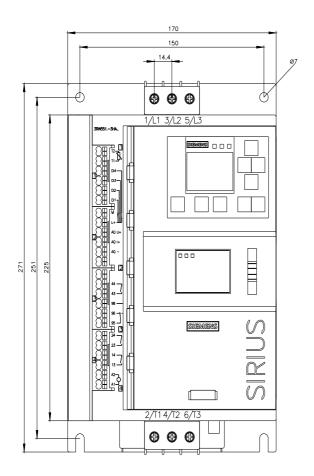
https://support.industry.siemens.com/cs/ww/en/ps/3RW5517-3HA14/char

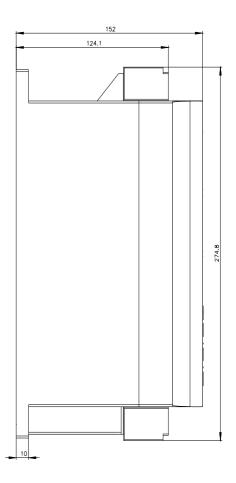
Characteristic: Installation altitude

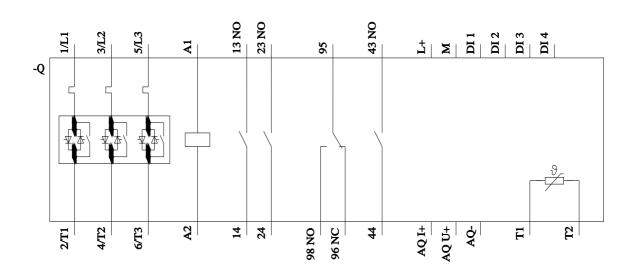
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5517-3HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

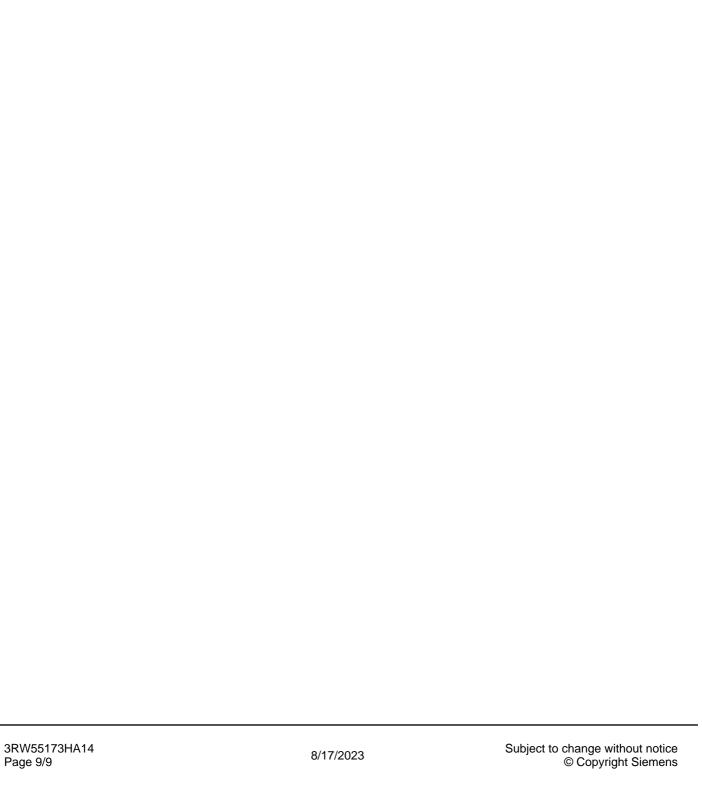
https://support.industry.siemens.com/cs/ww/en/view/101494917







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## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RW55173HA14