## **SIEMENS**

product brand name

product category

Data sheet 3RW5546-6HA14

SIRIUS

Hybrid switching devices



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC Screw terminals





F	,
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>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, lq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, lq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1334-2; 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>	3NE3340-8; 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
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	10 93 /0
for main current circuit	100 ms
for control circuit	100 ms
	0 255 s
idle time adjustable	480 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2 6 kV
impulse voltage rated value	
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	400 V. doos not confu for the service of the
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 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
<ul> <li>breakaway pulse</li> </ul>	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
min/max pointer	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	Yes
spring-loaded terminal	No
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> </ul>	Yes

• torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
at 40 °C rated value	370 A
at 40 °C rated value minimum	74 A
at 50 °C rated value	328 A
at 60 °C rated value	300 A
operational current at inside-delta circuit	
at 40 °C rated value	641 A
at 50 °C rated value	568 A
at 60 °C rated value     at 60 °C rated value	519 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	110 kW
at 230 V at inside-delta circuit at 40 °C rated value	200 kW
at 400 V at 40 °C rated value	200 kW
• at 400 V at inside-delta circuit at 40 °C rated value	355 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	111 W
at 50 °C after startup	98 W
at 60 °C after startup	90 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	5 563 W
at 50 °C during startup	4 694 W
at 60 °C during startup      at 60 °C during startup	4 145 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	10 %
AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at	10 %
AC at 60 Hz	

control supply voltage frequency	50 60 Hz
control supply voltage frequency relative negative tolerance of the control supply voltage	-10 %
frequency	10 /0
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	150 mA
inrush current by closing the bypass contacts maximum	0.87 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
parameterizable	4
number of digital outputs	4
number of digital outputs parameterizable	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	393 mm
width	210 mm
depth	203 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	10.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
with conductor cross-section = 0.5 mm² maximum	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 DIN cable lug for main contacts stranded	2x (50 240 mm²)
for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
for control circuit finely stranded with core end processing	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	, , ,
between soft starter and motor maximum	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	14 24 N·m
- 101 main contacts with solow-type tellilliais	11.00

tightening torque [IbFin]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • during operation  • during operation  • during operation according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • during interpretation according to IEC 60721  • during interpretation according to IEC 60721  • during manager according to IEC 60721  • during manager according to IEC 60721  • during manager according to IEC 60721  • Recommendat footprint  Siemens Eco Profile (SEP)  Siemens Eco Profile (SEP)  Siemens EcoTech  • PROFINET standard  • PROFINED  • Ves  • PROFIBUS  • PROFIBUS    * Ves  • PROFIBUS  * Ves  • PROFIBUS   * Ves  • PROFIBUS  * Ves  • PROFIBUS  * Ves  • PROFIBUS   * Ves	
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• for auxiliary and control contacts with screw-type terminals  Installation altitude at height above sea level maximum  Installation and a count of the devices and a count of the device	
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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  Siemens Eco Profile (SEP)  Siemens Eco Profile (SEP)  Siemens EcoTech  EMC emitted Interference  • acc. to IEC 60947-4-2: Class A  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 the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for 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  — 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  — 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  — 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at 100 C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V 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	
<ul> <li>• during operation according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>• during transport according to IEC 60721</li> <li>• EMECANDING TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN</li></ul>	
(sand must not get into the devices), 3M6  • during storage 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  acc. to IEC 60947-4-2: Class A  Communication Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus RTU  • PROFIBUS  Ves  • PROFIBUS  Ves  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — 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 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 inside-delta circuit up to 575/600 V according to UL  Operating power [hpj for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 200/208 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated value  • at 200/208 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-delt	
inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  Environmental footprint  Siemens Eco Profile (SEP)  Siemens Eco Profile (SEP)  Siemens EcoTech  EMC emitted interference  acc. to IEC 60947-4-2; Class A  Communication Protocol  communication module is supported  PROFINET standard  PROFINET standard  PROFINET high-feature  EtherNet/IP  Modbus RTU  Modbus RTU  PROFIBUS  Ves  PROFIBUS  Ves  PROFIBUS  Ves  Type: Class J / L, max. 1200 A; Iq = 18 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  UL  Lausable for Standard Faults up to 575/600 V according to UL  Lausable for High Faults up to 10 to	S2
Siemens Eco Profile (SEP)   Siemens EcoTech	t get
Siemens Eco Profile (SEP)  EMC emitted interference  acc. to IEC 60947-4-2: Class A  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 the fuse  — 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  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Tigh 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 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 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 60/480 V at inside-delta circuit at 50 °C rated value  • at 60/480 V at inside-delta circuit at 50 °C rated value	
EMC emitted interference  communication module is supported  PROFINET standard PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS PROFIBUS  Tyes  IUL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V according to UL  usable for High Faults up to 575/600 V according to UL  usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  usable for High Faults at inside-delta circuit up to 575/600 V according to UL  usable for High Faults at inside-delta circuit up to 575/600 V according to UL  pusable for High Faults at inside-delta circuit up to 575/600 V according to UL  pusable for High Faults at inside-delta circuit up to 575/600 V according to UL  pusable for High Faults at inside-delta circuit up to 575/600 V according to UL  poperating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value  at 460/480 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  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 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	
Communication / Protocol  communication module is supported  • PROFINET standard  • PROFINET high-feature  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  Tyes  • PROFIBUS  Tyes  • PROFIBUS  Tyes  • PROFIBUS  Tyes  • Ves  • Ves  • Ves  • Ves  • Ves  • PROFIBUS  Tyes  Tyes  • Ves  •	
communication module is supported  PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS  PROFIBUS  Wes  UL/CSA ratings  manufacturer's article number of the fuse  - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL  - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for 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 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 460/480 V 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 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 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	
PROFINET standard PROFINET high-feature PROFINET high-feature Pres EtherNet/IP Modbus RTU Pres PROFIBUS  Wes PROFIBUS  Wes PROFIBUS  Wes  UL/CSA ratings  manufacturer's article number of the fuse  — 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  — 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [Inp] for 3-phase motors  • at 200/208 V at 50 °C rated value • at 480/480 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 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 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 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	
PROFINET high-feature  EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  Yes  PROFIBUS  PROFIBUS  Tyes  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for 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  — 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 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 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 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 2460/480 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	
EtherNet/IP  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  Yes  PROFIBUS   Tyes  Wes  Ves  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for 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  — 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 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  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	
Modbus RTU  Modbus TCP  PROFIBUS  Yes  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — 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  — 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  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  100 hp  at 220/230 V at 50 °C rated value  100 hp  125 hp  126 hp  127 hp  128 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  129 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200 A; Iq = 100 kA  120 class J / L, max. 1200	
Modbus TCP PROFIBUS Pres  PROFIBUS  Pres  UL/CSA ratings  manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — 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  otal 200/208 V at 50 °C rated value otal 200/208 V at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value otal 200/208 V at inside-delta circuit at 50 °C rated value	
● PROFIBUS  Wanufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for 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 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 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	
manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for 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  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  otal 200/208 V at 50 °C rated value  otal 220/230 V at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  otal 220/230 V at inside-delta circuit at 50 °C rated value  otal 220/230 V at inside-delta circuit at 50 °C rated value  otal 260 hp  at 460/480 V at inside-delta circuit at 50 °C rated value  otal 260 hp	
manufacturer's article number  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — 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  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  Type: Class J / L, max. 1200 A; Iq = 100 kA  100 hp  at 200/208 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	
of the fuse          — usable for Standard Faults up to 575/600 V according to UL          — usable for High Faults up to 575/600 V according to UL          — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL          — usable for High Faults at inside-delta circuit up to 575/600 V according to UL          — 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 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 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	
- usable for Standard Faults up to 575/600 V according to UL  - usable for High Faults up to 575/600 V according to UL  - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  - usable for 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 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 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	
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 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 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	
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 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 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  • 450 hp	
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 460/480 V at inside-delta circuit at 50 °C rated value	
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 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	
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• at 460/480 V at inside-delta circuit at 50 °C rated value 450 hp	
·	
contact rating of auxiliary contacts according to UL R300-B300	
Electrical Safety	
protection class IP on the front according to IEC 60529  IP00; IP20 with cover	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover	
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	
PFHD with high demand rate according to IEC 61508 5E-7 1/h relating to ATEX	
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	
certificate of suitability	
• ATEX Yes	
• IECEx Yes	

• according to ATEX directive 2014/34/EU

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

**Test Certificates** 

Marine / Shipping



<u>KC</u>





other

Type Test Certificates/Test Report



Marine / Shipping





Confirmation



**Environment** 

Siemens EcoTech



**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=3RW5546-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5546-6HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HA14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5546-6HA14&lang=en

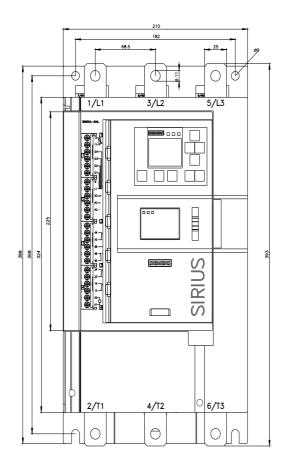
Characteristic: Tripping characteristics, I2t, Let-through current

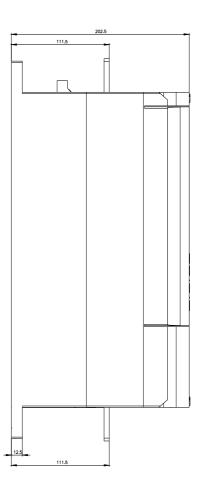
https://support.industry.siemens.com/cs/ww/en/ps/3RW5546-6HA14/char

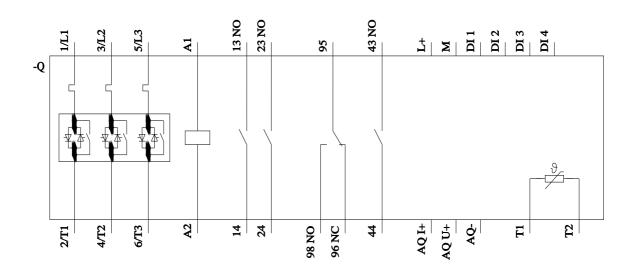
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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