## **SIEMENS**

Data sheet 3RW5553-6HA04



SIRIUS soft starter 200-480 V 720 A, 24 V AC/DC Screw terminals





product brand name	SIRIUS
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>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
of communication module PROFINET high-feature usable	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2716-7AB05-0AA0; 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 full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NB3351-1KK26; 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>	3NC3343-1U; Type of coordination 2, Iq = 65 kA
General technical data	

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	
<ul> <li>CE marking</li> </ul>	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes

product component	Von
HMI-High Feature     is supported HMI High Feature	Yes Yes
is supported HMI-High Feature  Product feature integrated hypers 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 33 /0
• for main current circuit	100 ms
• for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/11/2019
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 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
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
<ul><li>pump ramp down</li></ul>	Yes
DC braking	Yes
<ul><li>motor heating</li></ul>	Yes
<ul><li>min/max pointer</li></ul>	Yes
• trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
operating measured value display	Yes
• event list	Yes
• error logbook	Yes
via software parameterizable	Yes
via software configurable     account forming.	Yes
screw terminal     apring leaded terminal	Yes
<ul><li>spring-loaded terminal</li><li>PROFlenergy</li></ul>	No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
voltage ramp	Yes
- voltago ramp	

and the set based in a	V
combined braking	Yes
analog output     programmable control inputs/outputs	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	<b>=</b> 00.4
at 40 °C rated value	720 A
at 40 °C rated value minimum	144 A
at 50 °C rated value	641 A
at 60 °C rated value	580 A
operational current at inside-delta circuit	
• at 40 °C rated value	1 247 A
• at 50 °C rated value	1 110 A
at 60 °C rated value	1 005 A
operating voltage	200 400 V
• rated value	200 480 V
at inside-delta circuit rated value  relative possitive televance of the energing veltage.	200 480 V
relative negative televance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	10 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 76
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	200 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	400 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	400 kW
at 400 V at inside-delta circuit at 40 °C rated value	710 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	040.W
• at 40 °C after startup	216 W
• at 50 °C after startup	170 W
• at 60 °C after startup	139 W
power loss [W] at AC at current limitation 350 %	11 524 W
• at 50 °C during startup	11 534 W 9 773 W
• at 50 °C during startup	9 7/3 W 8 497 W
at 60 °C during startup  type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Electronic, hipping in the event of thermal overload of the motor
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	10.00
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at	-20 %
AC at 50 Hz	20 %
AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz

relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage at DC	
rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	1 100 mA
inrush current by closing the bypass contacts maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	оторо эт опри
number of digital inputs	4
parameterizable	4
- parametenzasio	
number of digital outputs	4
number of digital outputs parameterizable	3
number of digital outputs parameterizable     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	1A
Installation/ mounting/ dimensions	14
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	764 mm
width	478 mm
depth	241 mm
required spacing with side-by-side mounting	2-11 mm
	10 mm
• forwards	10 mm
<ul><li>forwards</li><li>backwards</li></ul>	0 mm
<ul><li>forwards</li><li>backwards</li><li>upwards</li></ul>	0 mm 100 mm
<ul><li>forwards</li><li>backwards</li><li>upwards</li><li>downwards</li></ul>	0 mm 100 mm 75 mm
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	0 mm 100 mm 75 mm 5 mm
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging	0 mm 100 mm 75 mm
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> </ul>	0 mm 100 mm 75 mm 5 mm
forwards     backwards     upwards     downwards     at the side     weight without packaging     Connections/ Terminals     type of electrical connection	0 mm 100 mm 75 mm 5 mm 45 kg
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> </ul>	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for main current circuit</li> </ul>	0 mm 100 mm 75 mm 5 mm 45 kg
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals
forwards     backwards     upwards     downwards     at the side     weight without packaging     Connections/ Terminals     type of electrical connection     for main current circuit     for control circuit     width of connection bar maximum     wire length for thermistor connection	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm
forwards     backwards     upwards     downwards     at the side     weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-sections	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m
forwards     backwards     upwards     downwards     at the side     weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections     for DIN cable lug for main contacts stranded	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²)
forwards     backwards     upwards     downwards     at the side  weight without packaging  Connections/ Terminals  type of electrical connection     for main current circuit     for control circuit  width of connection bar maximum  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 1.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m  2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
forwards     backwards     upwards     downwards     at the side      weight without packaging      Connections/ Terminals      type of electrical connection     for main current circuit     for control circuit      width of connection bar maximum      wire length for thermistor connection      with conductor cross-section = 0.5 mm² maximum      with conductor cross-section = 1.5 mm² maximum      with conductor cross-section = 2.5 mm² maximum      with conductor cross-sections      for DIN cable lug for main contacts stranded      for DIN cable lug for main contacts finely stranded      type of connectable conductor cross-sections	0 mm 100 mm 75 mm 5 mm 45 kg  busbar connection screw-type terminals 55 mm  50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²)

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	20 35 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf-in]	
for main contacts with screw-type terminals	177 310 lbf·in
for auxiliary and control contacts with screw-type	7 10.3 lbf·in
terminals	7 10.3 IDI III
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
daming operation according to 120 con 2.	(sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
	inside the devices), 1M4
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• DDOEIDLIS	Yes
<ul> <li>PROFIBUS</li> </ul>	165
PROFIBUS  UL/CSA ratings	i es
	165
UL/CSA ratings	
UL/CSA ratings manufacturer's article number	Type: Class J / L, max. 2000 A; Iq = 42 kA
UL/CSA ratings  manufacturer's article number  ● of the fuse  — usable for Standard Faults up to 575/600 V	
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	Type: Class J / L, max. 2000 A; Iq = 42 kA
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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA
■ 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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA
■ 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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA
■ 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     Operating power [hp] for 3-phase motors	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA
manufacturer's article number	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA
manufacturer's article number	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA
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  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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 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 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 200/208 V at inside-delta circuit at 50 °C rated value	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL  usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  at 200/208 V at 50 °C rated value  at 220/230 V at 50 °C rated value  at 460/480 V at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value  at 220/230 V at inside-delta circuit at 50 °C rated value	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 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  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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 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  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	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 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  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  contact rating of auxiliary contacts according to UL  Electrical Safety	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300
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  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  contact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 60529	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300
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  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  contact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300
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  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 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  contact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300
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  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  tontact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 60529  ATEX  Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508	Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  Type: Class J / L, max. 2000 A; Iq = 42 kA  Type: Class J / L, max. 2000 A; Iq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300  IP00
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  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 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  contact rating of auxiliary contacts according to UL  Electrical Safety  protection class IP on the front according to IEC 61508 relating to ATEX  PFHD with high demand rate according to IEC 61508 relating to ATEX  PFDavg with low demand rate according to IEC 61508 relating to ATEX  hardware fault tolerance according to IEC 61508 relating to	Type: Class J / L, max. 2000 A; lq = 42 kA  Type: Class J / L, max. 2000 A; lq = 100 kA  Type: Class J / L, max. 2000 A; lq = 42 kA  Type: Class J / L, max. 2000 A; lq = 100 kA  200 hp 250 hp 500 hp 400 hp 450 hp 950 hp R300-B300  IP00  SIL1  5E-7 1/h 0.008

certificate of suitability

- ATEX
- IECEx

• according to ATEX directive 2014/34/EU

type of protection according to ATEX directive 2014/34/EU

Yes

Yes Yes

BVS 18 ATEX F 003 X

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>





Type Test Certificates/Test Report



Marine / Shipping





Confirmation

other



Environment





Environment

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5553-6HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5553-6HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5553-6HA04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

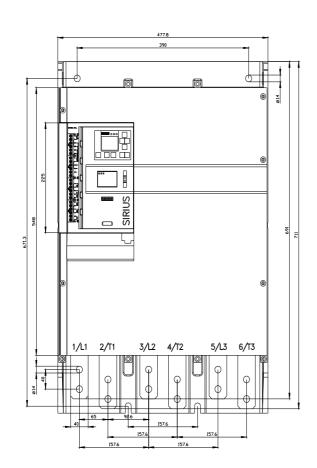
https://support.industry.siemens.com/cs/ww/en/ps/3RW5553-6HA04/char

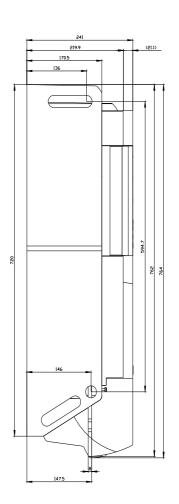
Characteristic: Installation altitude

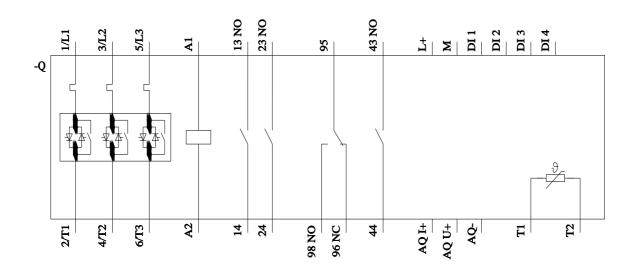
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5553-6HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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