## **SIEMENS**

Data sheet 3RW5558-2HA14



SIRIUS soft starter 200-480 V 1280 A, 110-250 V AC Spring-type terminals

Figure similar

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>	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>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</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>	3x3NA3365-6; 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>	3NB3357-1KK26: 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>	3x3NE3340-8; Type of coordination 2, lq = 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     is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
for main current circuit	100 ms
• for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1.15
	6 kV
maximum permissible voltage for protective separation	ONV
	480 V; does not apply for thermistor connection
between main and auxiliary circuit	
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/11/2019
product function	V
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	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>slave pointer function</li> </ul>	Yes
• trace function	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes
communication function	Yes
operating measured value display	Yes
• event list	Yes
• error logbook	Yes
via software parameterizable	Yes
via software configurable	Yes
screw terminal	No
spring-loaded terminal	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
voltage ramp	Yes
torque control	Yes
	Yes
combined braking	100
<ul><li>combined braking</li><li>analog output</li></ul>	Yes; 4 20 mA (default) / 0 10 V
analog output	
<ul><li>analog output</li><li>programmable control inputs/outputs</li></ul>	Yes; 4 20 mA (default) / 0 10 V
analog output	Yes; 4 20 mA (default) / 0 10 V Yes

a alternative run deves	Voo
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
• at 40 °C rated value	1 280 A
• at 40 °C rated value minimum	256 A
• at 50 °C rated value	1 139 A
at 60 °C rated value	1 030 A
operational current at inside-delta circuit	
• at 40 °C rated value	2 217 A
• at 50 °C rated value	1 973 A
at 60 °C rated value	1 784 A
operating voltage	000 400 1/
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	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	400 kW
• at 230 V at inside-delta circuit at 40 °C rated value	710 kW
• at 400 V at 40 °C rated value	710 kW
at 400 V at inside-delta circuit at 40 °C rated value	1 200 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	
	384 W
<ul> <li>at 40 °C after startup</li> </ul>	304 W
<ul><li>at 40 °C after startup</li><li>at 50 °C after startup</li></ul>	337 W
•	
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %	337 W
at 50 °C after startup     at 60 °C after startup	337 W
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %	337 W 275 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> </ul>	337 W 275 W 23 279 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul>	337 W 275 W 23 279 W 19 496 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	337 W 275 W 23 279 W 19 496 W 16 778 W
<ul> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>type of the motor protection</li> </ul>	337 W 275 W 23 279 W 19 496 W 16 778 W
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control	337 W 275 W  23 279 W 19 496 W 16 778 W  Electronic, tripping in the event of thermal overload of the motor
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage	337 W 275 W  23 279 W 19 496 W 16 778 W  Electronic, tripping in the event of thermal overload of the motor
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  -15 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  -15 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  -15 %  50 60 Hz
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  50 60 Hz -10 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  at 60 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  -15 %  10 %  50 60 Hz -10 %
at 50 °C after startup  at 60 °C after startup  power loss [W] at AC at current limitation 350 %  at 40 °C during startup  at 50 °C during startup  at 60 °C during startup  type of the motor protection  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply current in standby mode rated value	337 W 275 W  23 279 W 19 496 W 16 778 W Electronic, tripping in the event of thermal overload of the motor  AC  110 250 V 110 250 V -15 %  10 %  50 60 Hz -10 %  10 %  10 %

inrush current peak at application of control supply voltage maximum	44 A
duration of inrush current peak at application of control supply voltage	1.7 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
a number of divided autoute	
number of digital outputs	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable  digital output version	1 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	764 mm
width	478 mm
depth	241 mm
required spacing with side-by-side mounting	
• forwards	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	61 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
• for control circuit	spring-loaded terminals
width of connection bar maximum	55 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 atranded	2x (50 240 mm²)
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	= X (00 iii = 10 iiiii )
for DIN cable lug for main contacts stranded     for DIN cable lug for main contacts finely stranded	2x (70 240 mm²)
-	
for DIN cable lug for main contacts finely stranded	
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	2x (70 240 mm²)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections      for control circuit solid	2x (70 240 mm²)  2x (0.25 1.5 mm²)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing	2x (70 240 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  2x (24 16)
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  800 m
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum     at the digital inputs at DC maximum	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  800 m
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum     at the digital inputs at DC maximum  tightening torque	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  2x (24 16)  800 m  1 000 m
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum     at the digital inputs at DC maximum  tightening torque     for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  2x (24 16)  800 m  1 000 m
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum     at the digital inputs at DC maximum  tightening torque     for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  2x (24 16)  800 m  1 000 m
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections     for control circuit solid     for control circuit finely stranded with core end processing     for AWG cables for control circuit solid     for AWG cables for control circuit finely stranded with core end processing  wire length     between soft starter and motor maximum     at the digital inputs at DC maximum  tightening torque     for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals  tightening torque [lbf-in]	2x (70 240 mm²)  2x (0.25 1.5 mm²)  2x (0.25 1.5 mm²)  2x (24 16)  2x (24 16)  800 m  1 000 m  20 35 N·m  0.8 1.2 N·m

installation altitude at height above and level maying un-	5 000 m. Dorating on of 1000 m. one satalas
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	07 00 00 Pt
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 (sand must not get into the devices), 3M6
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not go inside the devices), 1M4
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
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  II (CSA retings)	Yes
JL/CSA ratings	
manufacturer's article number	
of the fuse  — usable for Standard Faults up to 575/600 V  according to LIII	Type: Class J / L, max. 3000 A; Iq = 85 kA
according to UL  — usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 3000 A; Iq = 100 kA
usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 3000 A; lq = 85 kA
usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 3000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	400 hp
at 220/230 V at 50 °C rated value	450 hp
• at 460/480 V at 50 °C rated value	1 000 hp
at 200/208 V at inside-delta circuit at 50 °C rated value	700 hp
at 220/230 V at inside-delta circuit at 50 °C rated value	850 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	1 700 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP00
electromagnetic compatibility	acc. to IEC 60947-4-2
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]
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	EMC



## Confirmation









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=3RW5558-2HA14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5558-2HA14}}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-2HA14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5558-2HA14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

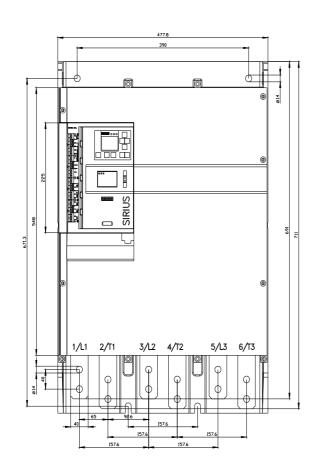
https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-2HA14/char

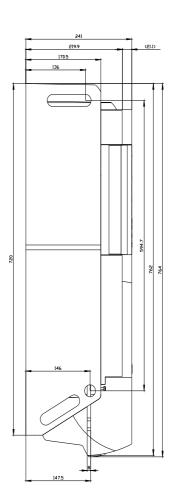
Characteristic: Installation altitude

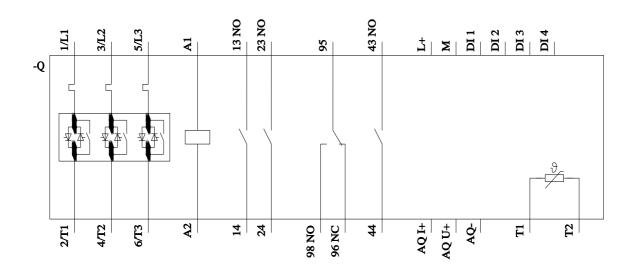
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5558-2HA14\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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