## **SIEMENS**

Data sheet 3RW5525-1HA04



SIRIUS soft starter 200-480 V 63 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>	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>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3830-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3830-6; 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>	3NE1022-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3227: Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
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 acc. to IEC 61557-12	5 %
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
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 %
recovery time after overload trip adjustable	60 1 800 s
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
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
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
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reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET  • manual RESET  • remote reset	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting)  • ramp-down (soft stop)  • breakaway pulse  • adjustable current limitation  • creep speed in both directions of rotation  • pump ramp down  • DC braking  • motor heating  • slave pointer function  • trace function  • intrinsic device protection  • motor overload protection  • evaluation of thermistor motor protection  • inside-delta circuit  • auto-RESET  • manual RESET  • remote reset  • communication function	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection  • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2  Substance Prohibitance (Date)  product function  • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection  • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

a apring type terminal	No
spring-type terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
	Yes
voltage ramp     terrus central	Yes
torque control     combined braking	Yes
combined braking	
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	63 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	13 A
<ul> <li>at 50 °C rated value</li> </ul>	55.5 A
at 60 °C rated value	50.5 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	109 A
<ul> <li>at 50 °C rated value</li> </ul>	96 A
at 60 °C rated value	87.5 A
operating voltage	
<ul> <li>rated value</li> </ul>	200 480 V
<ul> <li>at inside-delta circuit rated value</li> </ul>	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	18.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	30 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	19 W
<ul> <li>at 50 °C after startup</li> </ul>	17 W
at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 056 W
<ul> <li>at 50 °C during startup</li> </ul>	732 W
at 60 °C during startup	647 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/DC
control supply voltage at AC	
at 50 Hz rated value	24 V

at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
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	870 mA
locked-rotor current at close of bypass contact maximum	6.3 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	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
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	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	75 mm
at the side	5 mm
weight without packaging	5.9 kg
Connections/ Terminals	
type of electrical connection	
- for main ourrant airquit	
<ul> <li>for main current circuit</li> </ul>	box terminal
for control circuit	box terminal screw-type terminals

width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> </ul>	250 m
type of connectable conductor cross-sections	
for main contacts for box terminal using the front	1x (2.5 16 mm²)
clamping point solid	
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	1x (10 2/0)
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	2x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 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]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf-in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
during operation acc. 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 acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. 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 high-feature</li> </ul>	Yes
EtherNet/IP	Yes
<ul> <li>Modbus RTU</li> </ul>	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
<ul> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V</li> </ul>	Signans type: 3D\/2742 may 70 A or 3\/A51 may 125 A: In = 10 kA
according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
<ul> <li>usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA
<ul> <li>usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 225 A; Iq = 100 kA
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 225 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	15 hp
• at 220/230 V at 50 °C rated value	20 hp
• at 460/480 V at 50 °C rated value	40 hp
at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	30 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	75 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	IDAA IDAA III
protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	IP00; IP20 with cover
electromagnetic compatibility	finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2
ATEX	acc. to 120 00047-4-2
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y

## Certificates/ approvals

**General Product Approval** 

**EMC** 

For use in hazardous locations













For use in hazardous locations Declaration of Conformity

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

## **Further information**

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=3RW5525-1HA04

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5525-1HA04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

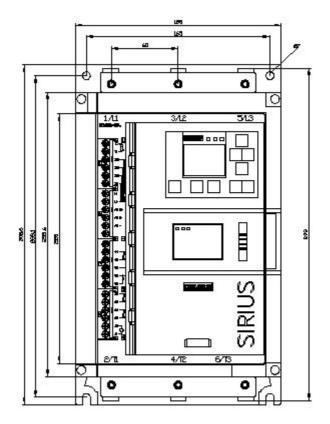
https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HA04/char

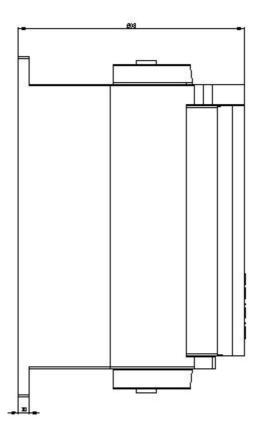
Characteristic: Installation altitude

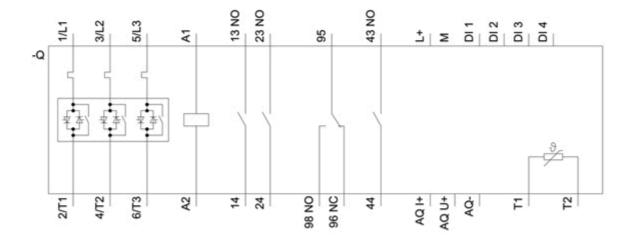
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5525-1HA04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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