## SIEMENS

## Data sheet

## 3RW5525-1HA16



SIRIUS soft starter 200-690 V 63 A, 110-250 V AC Screw terminals

product category         Hybrid switching devices           product designation         Soft starter           product type designation         SRW55           manufacturer's article number         SRW5980-01F00           • of high feature HMI module usable         SRW5980-0CS00           • of communication module PROFINET standard         SRW5980-0CS00           usable         of communication module PROFINET standard           • of communication module PROFIBUS usable         SRW5980-0CF00           • of communication module Mobus TCP usable         SRW5980-0CF00           • of communication module Ethernet/IP         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of circuit breaker usable at 400 V         SRW5980-0CF00           • of the G fuse usable at 900 V         SRW5980-0CF00           • of the gG fuse usable at 900 V         SRW5980-0CF00           • of the gG fuse usable at 900 V         SRW5980-0CF00	product brand name	SIRIUS
product designation         Soft starter           product type designation         3RW55           manufacturer's article number         of high feature HMI module usable         3RW5980-0CES00           • of communication module PROFINET standard usable         3RW5980-0CES00         3RW5980-0CES00           • of communication module PROFINET high-feature usable         3RW5980-0CE00         3RW5980-0CE00           • of communication module Modbus TCP usable         3RW5980-0CE00         3RW5980-0CE00           • of communication module Modbus RTU usable         3RW5980-0CE00         3RW5980-0CE00           • of communication module Rthernet/IP         3RW5980-0CE00         3RW5980-0CE00           • of circuit breaker usable at 400 V         3RW5980-0CE00         3RW5980-0CE00           • of circuit breaker usable at 400 V         3RW5980-0CE00         3VA2163-7MN32-0AA0: Type of coordination 1. lg = 65 kA, CLASS 10           • of circuit breaker usable at 500 V         3VA2163-7MN32-0AA0: Type of coordination 1. lg = 65 kA, CLASS 10           • of the gG fuse usable at 500 V at inside-delta circuit         3VA2110-7MN32-0AA0: Type of coordination 1. lg = 65 kA, CLASS 10           • of the gG fuse usable at inside-delta circuit up to 500 V         3NA3830-6: Type of coordination 1. lg = 65 kA           • of back-up R fuse link for semiconductor protection usable up to 690 V         3NE3227: Type of coordination 2. lg = 65 kA	•	
product type designation       3RW55         manufacturer's article number       3RW5980-0HE00         • of high feature HMI module usable       3RW5980-0HE00         • of communication module PROFINET standard       3RW5980-0CE00         • of communication module PROFINET high-feature usable       3RW5980-0CE00         • of communication module Modus RTU usable       3RW5980-0CE00         • of communication module Modus RTU usable       3RW5980-0CE00         • of communication module Modus RTU usable       3RW5980-0CE00         • of circuit breaker usable at 400 V       3VA2163-7MN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10         • of circuit breaker usable at 400 V       3VA2163-7MN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10         • of circuit breaker usable at 500 V       3VA2163-7MN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10         • of circuit breaker usable at 500 V       3VA210-7MN32-0AA0; Type of coordination 1. Iq = 65 kA, CLASS 10         • of the gG fuse usable at 500 V       3NA3830-6; Type of coordination 1. Iq = 65 kA         • of the gG fuse usable at inside-delta circuit up to 500 V       3NE1022-0; Type of coordination 2. Iq = 65 kA         • of back-up R fuse link for semiconductor protection usable up to 690 V       3NE3227; Type of coordination 2. Iq = 65 kA         • of back-up R fuse link for semiconductor protection usable up to 690 V       3NE3222; Type of coordination 2. Iq = 65 kA		
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breakaway time adjustable 0 2 s	current limiting value [%] adjustable	125 800 %
	breakaway voltage [%] adjustable	40 100 %
number of parameter sets 3	breakaway time adjustable	0 2 s
	number of parameter sets	3

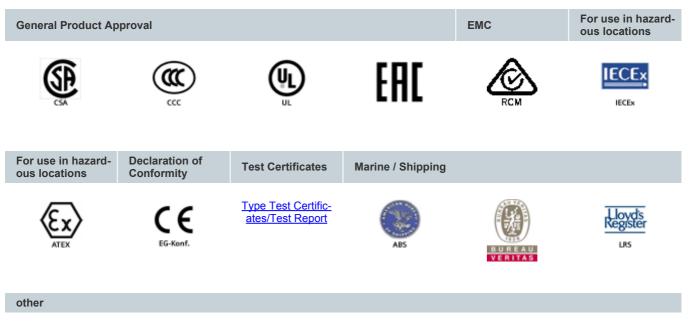
accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
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	
<ul> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	690 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	8 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1.15
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	690 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
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
• breakaway pulse	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
slave pointer function	Yes
trace function     intrincip device protection	Yes
intrinsic device protection	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
<ul> <li>inside-delta circuit</li> </ul>	Yes; Only up to 600 V operating voltage
● auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
event list	Yes
<ul> <li>error logbook</li> </ul>	Yes
<ul> <li>via software parameterizable</li> </ul>	Yes
<ul> <li>via software configurable</li> </ul>	Yes
	Yes
<ul> <li>screw terminal</li> </ul>	165
<ul> <li>screw terminal</li> <li>spring-type terminal</li> </ul>	No

	Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes
• voltage ramp	Yes
• torque control	Yes
combined braking	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
condition monitoring	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	63 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	13 A
● at 50 °C rated value	55.5 A
• at 60 °C rated value	50.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	109 A
• at 50 °C rated value	96 A
at 60 °C rated value	87.5 A
operating voltage	
rated value	200 690 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at	10 % -15 %
inside-delta circuit	-13 /0
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>	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
<ul> <li>at 500 V at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 500 V at inside-delta circuit at 40 °C rated value</li> </ul>	
	55 kW
• at 690 V at 40 °C rated value	55 kW
at 690 V at 40 °C rated value     Operating frequency 1 rated value	55 kW 50 Hz
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value	55 kW 50 Hz 60 Hz
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency	55 kW 50 Hz 60 Hz -10 %
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency	55 kW 50 Hz 60 Hz -10 % 10 %
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]	55 kW 50 Hz 60 Hz -10 %
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]     power loss [W] for rated value of the current at AC	55 kW 50 Hz 60 Hz -10 % 10 %; Relative to set le
• at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]     power loss [W] for rated value of the current at AC         • at 40 °C after startup	55 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]     power loss [W] for rated value of the current at AC         e at 40 °C after startup         e at 50 °C after startup	55 kW 50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]     power loss [W] for rated value of the current at AC         e at 40 °C after startup         e at 50 °C after startup         e at 60 °C after startup	55 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W
at 690 V at 40 °C rated value     Operating frequency 1 rated value     Operating frequency 2 rated value     relative negative tolerance of the operating frequency     relative positive tolerance of the operating frequency     minimum load [%]     power loss [W] for rated value of the current at AC         e at 40 °C after startup         e at 50 °C after startup         e at 60 °C after startup         power loss [W] at AC at current limitation 350 %	55 kW 50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W 15 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 60 °C after startup</li> <li>at 60 °C after startup</li> <li>at 40 °C during startup</li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC <ul> <li>at 40 °C after startup</li> <li>at 60 °C after startup</li> <li>at 60 °C after startup</li> </ul> </li> <li>power loss [W] at AC at current limitation 350 % <ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul> </li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W 15 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> <li>at 60 °C during startup</li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W
<ul> <li>at 690 V at 40 °C rated value</li> <li>Operating frequency 1 rated value</li> <li>Operating frequency 2 rated value</li> <li>relative negative tolerance of the operating frequency</li> <li>relative positive tolerance of the operating frequency</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>at 60 °C after startup</li> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> <li>at 60 °C during startup</li> </ul>	55 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 19 W 17 W 15 W 1 056 W 732 W 647 W Electronic, tripping in the event of thermal overload of the motor

• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	100 mA
holding current in bypass operation rated value	180 mA
locked-rotor current at close of bypass contact maximum	0.8 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 inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	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 185 mm
depth	203 mm
required spacing with side-by-side mounting	203 mm
forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	5.9 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m

- with conductor error continuity $-0.5$ mm <sup>2</sup> measured	250 m
with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
<ul> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<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)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at DC maximum</li> </ul>	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	2 000 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
<ul> <li>environmental category</li> <li>during operation acc. to IEC 60721</li> </ul>	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, Class B on request
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

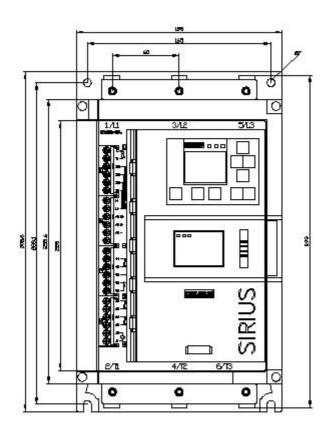
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA51, max. 125 A; lq 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; lq = 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; lq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 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; lq 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; lq = 10 kA
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 225 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	15 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	20 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	40 hp
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	50 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
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	75 hp
at 575/600 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	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance 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 у
Certificates/ approvals	

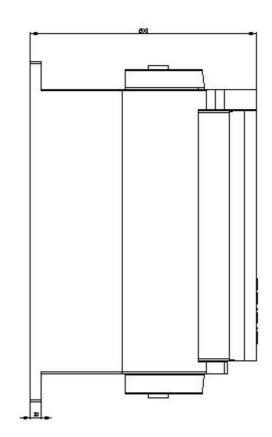


**Confirmation** 

**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=3RW5525-1HA16 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5525-1HA16 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HA16 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5525-1HA16&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-1HA16/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5525-1HA16&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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