SIEMENS

Data sheet

3RW5521-3HA16



SIRIUS soft starter 200-690 V 25 A, 110-250 V AC spring-type terminals

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW55			
manufacturer's article number				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6: Type of coordination 1. lq = 65 kA</u>			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8021-1: Type of coordination 2. Iq = 65 kA</u>			
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				

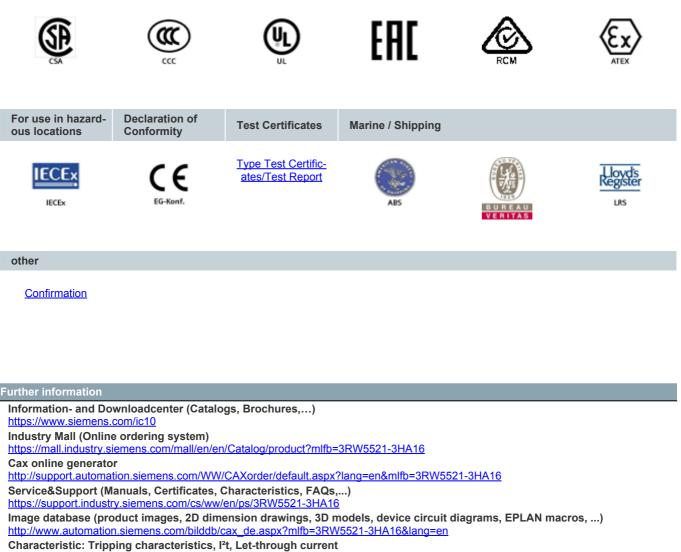
e HMI High Egoturo	Voc				
HMI-High Feature is supported HMI-High Feature	Yes				
is supported HMI-High Feature	Yes				
product feature integrated bypass contact system	Yes3				
number of controlled phases	3 CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2				
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2				
current unbalance limiting value [%] ground-fault monitoring limiting value [%]	10 60 % 10 95 %				
recovery time after overload trip adjustable	10 95 % 60 1 800 s				
buffering time in the event of power failure	00 1 000 3				
for main current circuit	100 ms				
for control circuit	100 ms 100 ms				
idle time adjustable	0 255 s				
insulation voltage rated value	0 255 \$ 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					
 between main and auxiliary circuit 	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					
 ramp-up (soft starting) 	Yes				
 ramp-down (soft stop) 	Yes				
 breakaway pulse 	Yes				
 adjustable current limitation 	Yes				
 creep speed in both directions of rotation 	Yes				
 pump ramp down 	Yes				
DC braking	Yes				
 motor heating 	Yes				
 slave pointer function 	Yes				
 trace function 	Yes				
 intrinsic device protection 	Yes				
 motor overload protection 	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)				
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick				
inside-delta circuit	Yes; Only up to 600 V operating voltage				
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 via software configurable 	Yes				
via software configurable screw terminal	No				
	Yes				
 spring-type terminal PROFlenergy 	Yes; in connection with the PROFINET Standard and PROFINET High-				
	Feature communication modules Yes				
firmware update romovable terminal for control circuit					
removable terminal for control circuit	Yes				
voltage ramp torque control	Yes				
torque control combined braking	Yes				
combined braking	Yes				

 analog output 	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				
5,5	163				
Power Electronics					
operational current					
• at 40 °C rated value	25 A				
 at 40 °C rated value minimum 	5 A				
• at 50 °C rated value	22.3 A				
• at 60 °C rated value	19.6 A				
operational current at inside-delta circuit					
• at 40 °C rated value	43.3 A				
• at 50 °C rated value	39 A				
• at 60 °C rated value	33.9 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	10 %				
relative negative tolerance of the operating voltage at	-15 %				
inside-delta circuit					
relative positive tolerance of the operating voltage at	10 %				
inside-delta circuit					
operating power for 3-phase motors					
 at 230 V at 40 °C rated value 	5.5 kW				
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW				
 at 400 V at 40 °C rated value 	11 kW				
	18.5 kW				
 at 400 V at inside-delta circuit at 40 °C rated value 	18.5 kW				
 at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value 	18.5 kW 15 kW				
• at 500 V at 40 °C rated value	15 kW				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 	15 kW 22 kW				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value 	15 kW 22 kW 22 kW				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value	15 kW 22 kW 22 kW 50 Hz				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value	15 kW 22 kW 22 kW 50 Hz 60 Hz				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 %				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 %				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 [%]	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 %				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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	15 kW 22 kW 22 kW 50 Hz -10 % 10 % 10 %; Relative to set le				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 % Relative to set le 8 W 7 W 6 W 332 W 283 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 % Relative to set le 8 W 7 W 6 W 332 W 283 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 60 °C during startup 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W Electronic, tripping in the event of thermal overload of the motor				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 60 °C during startup at 60 °C during startup type of the motor protection 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W Electronic, tripping in the event of thermal overload of the motor				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value 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 at 50 °C after startup at 60 °C after startup at 60 °C during startup at 60 °C during startup at 60 °C during startup type of the motor protection 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W Electronic, tripping in the event of thermal overload of the motor				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °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 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V				
 at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 690 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 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 at 50 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 60 °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 60 Hz relative negative tolerance of the control supply 	15 kW 22 kW 22 kW 50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 8 W 7 W 6 W 332 W 283 W 239 W Electronic, tripping in the event of thermal overload of the motor AC 110 250 V 110 250 V				

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			
 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			
backwards	0 mm			
• upwards	100 mm			
downwards	75 mm			
at the side	5 mm			
weight without packaging	5.5 kg			
Connections/ Terminals				
type of electrical connection				
for main current circuit	box terminal			
for control circuit width of connection bar maximum	spring-loaded terminals 25 mm			
wire length for thermistor connection				
with conductor cross-section = 0.5 mm ² maximum	50 m			
• with conductor cross-section = 1.5 mm ² maximum	150 m			
• with conductor cross-section = 2.5 mm ² maximum	250 m			
type of connectable conductor cross-sections				
 for main contacts for box terminal using the front clamping point solid 	1x (2.5 16 mm²)			
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²)			

 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)			
 at AWG cables for main contacts for box terminal using the front clamping point 	1x (10 2/0)			
 for main contacts for box terminal using the back clamping point solid 	1x (2.5 16 mm²)			
 at AWG cables for main contacts for box terminal using the back clamping point 	1x (10 2/0)			
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)			
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)			
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)			
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)			
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)			
type of connectable conductor cross-sections				
 for control circuit solid 	2x (0.25 1.5 mm²)			
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)			
 at AWG cables for control circuit solid 	2x (24 16)			
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at DC maximum 	1 000 m			
tightening torque				
 for main contacts with screw-type terminals 	4.5 6 N·m			
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m			
tightening torque [lbf·in]				
 for main contacts with screw-type terminals 	40 53 lbf·in			
 for auxiliary and control contacts with screw-type terminals 	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			
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, Class B on request			
Communication/ Protocol				
communication module is supported				
PROFINET standard	Yes			
 PROFINET high-feature 	Yes			
• EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus TCP	Yes			
PROFIBUS	Yes			
UL/CSA ratings				
manufacturer's article number				
of circuit breaker				

 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, ma	ax. 70 A or 3VA51, max	. 70 A; lq = 5 kA		
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA				
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 70 A; Iq = 5 kA				
 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA				
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 70 A; Iq = 5 kA				
 usable for High Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA				
 — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 70 A; lq = 5 kA				
 of the fuse 					
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; lq = 5 kA				
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 100 A; Iq = 100 kA				
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; lq = 5 kA				
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 100 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
 at 200/208 V at 50 °C rated value 	5 hp				
 at 220/230 V at 50 °C rated value 	7.5 hp				
 at 460/480 V at 50 °C rated value 	15 hp				
 at 575/600 V at 50 °C rated value 	20 hp				
 at 200/208 V at inside-delta circuit at 50 °C rated value 	10 hp				
 at 220/230 V at inside-delta circuit at 50 °C rated value 	10 hp				
 at 460/480 V at inside-delta circuit at 50 °C rated value 	25 hp				
 at 575/600 V at inside-delta circuit at 50 °C rated value 	30 hp				
contact rating of auxiliary contacts according to UL	R300-B300	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 conta	ct from the front with c	over		
electromagnetic compatibility	finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2				
ATEX					
certificate of suitability	N/				
• 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 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					
General Product Approval		EMC	For use in hazard- ous locations		

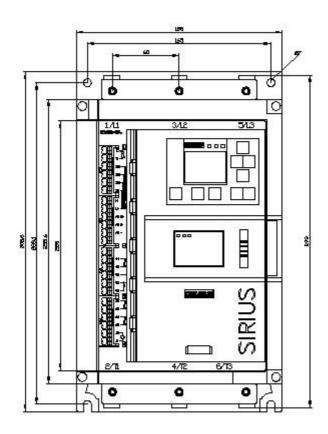


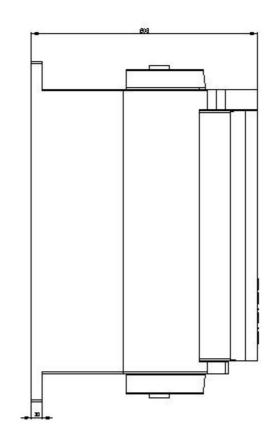
https://support.industry.siemens.com/cs/ww/en/ps/3RW5521-3HA16/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5521-3HA16&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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