SIEMENS



Data sheet 3RW5525-3HA06



SIRIUS soft starter 200-690 V 63 A, 24 V AC/DC 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 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFINET high-feature usable 	3RW5950-0CH00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	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 500 V 	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 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

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 according to IEC 61557-12	5 %
certificate of suitability	

CE marking	Yes		
 UL approval 	Yes		
 CSA approval 	Yes Yes Yes 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 %		
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	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	O KV		
	600 V: doos not apply for thermister connection		
between main and auxiliary circuit shock resistance	690 V; does not apply for thermistor connection 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 60 1 800 s		
recovery time after overload trip adjustable			
utilization category according to IEC 60947-4-2	AC 53a		
reference code according to IEC 81346-2	Q 00/45/2040		
Substance Prohibitance (Date)	02/15/2018		
product function	V		
• 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 	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		
 removable terminal for control circuit 	Yes		
 voltage ramp 	Yes		

torque control	Yes Yes Yes; 4 20 mA (de) 10 Valentudong
 combined braking 	Yes
analog output	Yes; 4 20 mA (de) 10 V
 programmable control inputs/outputs 	Yes
 condition monitoring 	Yes
 automatic parameterisation 	Yes
 application wizards 	Yes
 alternative run-down 	Yes
 emergency operation mode 	Yes
 reversing operation 	Yes
 soft starting at heavy starting conditions 	Yes
Power Electronics	
operational current	
 at 40 °C rated value 	63 A
 at 40 °C rated value minimum 	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	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	
 at 230 V at 40 °C rated value 	18.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 400 V at 40 °C rated value 	30 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	55 kW
 at 500 V at 40 °C rated value 	37 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	55 kW
at 690 V at 40 °C rated value	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	
• at 40 °C after startup	19 W
• at 50 °C after startup	17 W
at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	4.050.W
• at 40 °C during startup	1 056 W
at 50 °C during startup at 60 °C during startup	732 W
at 60 °C during startup tups of the motor protection	647 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	AOIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	2424
• 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 % dientudong	
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 digital outputs	1	
	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	5.9 kg	
Connections/ Terminals		
type of electrical connection		
for main current circuit	box terminal	
for main current circuit for control circuit		
	spring-loaded terminals	
width of connection bar maximum	25 mm	
wire length for thermistor connection	FO	
• 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 main contacts for box terminal using the front 	1x (2.5 16 mm²)	

clamping point solid	\dientudona		
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	1x (2.5 50 mm²) dientudong		
 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	45 01		
for main contacts with screw-type terminals for auxiliary and control contacts with screw type	4.5 6 N·m 0.8 1.2 N·m		
 for auxiliary and control contacts with screw-type terminals 	U.O 1.2 IN III		
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	40 53 lbf·in		
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in		
terminals			
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog		
ambient temperature	05 100 °0. Disease share a desetting of the continue of 10 °0 and		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during storage and transport	-40 +80 °C		
environmental categoryduring 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 get 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			
PROFINET standard	Yes		
 PROFINET high-feature 	Yes		
• EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			

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according to UL — usable for Standard Faults at 575/600 V at insidedelta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V at insidedelta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Operating power (high for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 4576/600 V at 50 °C rated value • at 450/480 V at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 450/480 V at inside-delta circuit at 50 °C rated value • at 450/480 V at inside-delta circuit at 50 °C rated value • at 4576/600 V at inside-delta circuit at 50 °C rated value • at 4576/600 V at inside-delta circuit at 50 °C rated value • at 576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta circuit at 50 °C rated value • at 7576/600 V at inside-delta		Siemens type: 3VA51, max. 125 A; lq max = 65 kA		
delta circuit according to UL. — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL. — usable for Standard Faults up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at Inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at Inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at Inside-delta circuit up to 575/600 V at 50° C rated value • at 200/208 V at 50° C rated value • at 220/230 V at inside-delta circuit at 50° C rated value • at 460/480 V at inside-delta circuit at 50° C rated value • at 575/600 V at 50° C rated value • at 575/600 V at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-delta circuit at 50° C rated value • at 575/600 V at inside-del		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA		
inside-delta circuit according to UL of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Operating power [hp] for 3-phase motors • at 200/208 V at 50° C rated value • at 220/230 V at 50° C rated value • at 460/480 V at 50° C rated value • at 220/230 V at inside-delta circuit at 50° C rated value • at 220/230 V at inside-delta circuit at 50° C rated value • at 675/600 V at inside-delta circuit		Siemens type: 3VA51, max. 125 A; Iq max = 65 kA		
- usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable Value - at 220/230 V at 50 °C rated value - at 220/230 V at 50 °C rated value - at 220/230 V at inside-delta circuit at 50 °C rated value - at 480/480 V at inside-delta circuit at 50 °C rated value - at 480/480 V at inside-delta circuit at 50 °C rated value - at 480/480 V at inside-delta circuit at 50 °C rated value - at 480/480 V at inside-delta circuit at 50 °C rated value - at 480/480 V at inside-delta circuit at 50 °C rated value - at 575/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 675/600 V at inside-delta circuit at 50 °C rated value - at 6		Siemens type: 3VA51, max. 125 A; Iq = 10 kA		
according to UL — usable for Fligh Faults up to 575/600 V according to UL — usable for Slandard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Operating power (hg) for 3-phase motors • at 200/208 V at 50 °C rated value • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 260/480 V at inside-delta circuit at 50 °C rated value • at 375/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 207/200 V at inside-delta circuit at 50 °C rated value • at 376/600 V at inside-delta circuit at 50 °C rated value • at 207/200 V at inside-delta circuit at 50 °C rated value • at 207/200 V at inside-delta circuit at 50 °C rated value • at 207/200 V at inside-delta circuit at 50 °C rated value • at 207/200 V at insi	of the fuse			
according to U. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to U. — usable for High Faults at inside-delta circuit up to 575/600 V according to U. — usable for High Faults at inside-delta circuit up to 575/600 V according to U. — usable for High Faults at inside-delta circuit up to 575/600 V at 50° C rated value • at 200/200 V at 50° C rated value • at 220/230 V at 50° C rated value • at 460/480 V at 50° C rated value • at 220/230 V at inside-delta circuit at 50° C rated value • at 220/230 V at inside-delta circuit at 50° C rated value • at 200/208 V at inside-delta circuit at 50° C rated value • at 250/300 V at inside-delta circuit at 50° C rated value • at 675/600 V at inside-delta circuit at 50° C rated va		Type: Class RK5 / K5, max. 200 A; Iq = 10 kA		
circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [high for 3-phase motors • at 200/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 200/208 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 257/600 V at inside-delta circuit at 50 °C rated value • at 357/600 V at inside-delta circuit at 50 °C rated value • at 357/600 V at inside-delta circuit at 50 °C rated value • at 450/480 V at inside-delta circuit at 50 °C rated value • at 257/600 V at inside-delta circuit at 50 °C rated value • at 250/200 V at inside-delta circuit at 50 °C rated value • at 250/200 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-		Type: Class J / L, max. 225 A; Iq = 100 kA		
to 575/5000 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 480/480 V at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 480/480 V at inside-delta circuit at 50 °C rated value • at 480/480 V at inside-delta circuit at 50 °C rated value • at 480/480 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 3575/600 V at inside-delta circuit at 50 °C rated value • at 3575/600 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 250/600 V at inside-d		Type: Class RK5 / K5, max. 200 A; Iq = 10 kA		
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 420/480 V at 50 °C rated value at 4575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 4575/600 V at inside-delta circuit at 50 °C rated value at 4575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL asfety related data protection class IP on the front according to IEC 60529 IPP00: IP20 with cover finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2 ATEX certificate of suitability ATEX yes according to ATEX directive 2014/34/EU ATEX type of protection according to ATEX directive 2014/34/EU IVP of protection according to ATEX directive 2014/34/EU IVP of protection according to ATEX directive 2014/34/EU IVP of protection according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX Serty Integrity Level (SIL) according to IEC 61508 relating to ATEX Ti value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/approvals		Type: Class J / L, max. 225 A; Iq = 100 kA		
at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at inside-delta circuit at 50 °C rated value at 450/480 V at 50 Ppp value at 575/600 V at inside-delta circuit at 50 °C rated value at 450/480 V at 50 Ppp value at 575/600 V at 50 Ppp value at 575/600 V at 50 Ppp value at 575/600 V at 50 Ppp value	operating power [hp] for 3-phase motors			
at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 4575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX IECEX according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to IEC 61508 relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to IEC 61508 relating to IEC 61508 relating to ATEX Certificates/approvals	 at 200/208 V at 50 °C rated value 	15 hp		
at 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data Protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover 60529 electromagnetic compatibility ATEX certificate of suitability ATEX i IECEx according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU specificate of ATEX PFDD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to EN 62061 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/approvals Solution and the service life according to IEC 61508 relating to ATEX Certificates/approvals Solution and the service life according to IEC 61508 relating to ATEX Certificates/approvals	at 220/230 V at 50 °C rated value	20 hp		
at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 240/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability ATEX EIECEX according to ATEX directive 2014/34/EU bype of protection according to ATEX directive 2014/34/EU brack fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to EN 62061 relating to ATEX Tivalue for proof test interval or service life according to IEC 61508 relating to ATEX Tivalue for proof test interval or service life according to IEC 61508 relating to ATEX Cortificates/approvals Solution: Tivalue for proof test interval or service life according to IEC 61508 relating to ATEX Cortificates/approvals	at 460/480 V at 50 °C rated value	40 hp		
value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 4575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta in 50 °C rated value • at 576/600 V at inside-delta in 50 °C rated value • at 576/600 V at inside-delta in 50 °C rated value • at 576/600 V at inside-delta in 50 °C rated value • at 576/600 V at inside delta in 50 °C rated value • at 576/600 V at inside delta in 50 °C rated value • at 576/600	 at 575/600 V at 50 °C rated value 	50 hp		
value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value • at 575/600 V at inside-delta circuit at 50 °C rated value Contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility ATEX Certificate of suitability • ATEX • IECEx • according to ATEX directive 2014/34/EU type of protection according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Ty value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/approvals		30 hp		
value • at 575/600 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 electromagnetic compatibility ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU thardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX To the suitability at 50 condition and the suitability according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to EC 61508 relating to ATEX To take the suitability according to ATEX directive according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX To take the suitable according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX To take the suitable according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX To take the suitable according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX Certificates/approvals		30 hp		
contact rating of auxiliary contacts according to UL Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/4/EU surfaction of ATEX relating to ATEX PFDay with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/approvals	value	75 hp		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 electromagnetic compatibility • ATEX certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU production according to ATEX directive 2014/34/EU production according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to IEC 61508 relating to ATEX Certificates/ approvals		75 hp		
touch protection on the front according to IEC 60529 electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability • ATEX • IECEX • according to ATEX directive 2014/34/EU type of protection according to ATEX directive 2014/34/EU bardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to EC 61508 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals IP00; IP20 with cover finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2 Telecting to ATEX Yes Yes Yes Yes II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], II (M2) [Ex db Mb] 0 0 0.008 SIL 1 SIL 1 SIL 1 Certificates/ approvals	contact rating of auxiliary contacts according to UL	R300-B300		
touch protection on the front according to IEC 60529 electromagnetic compatibility ATEX certificate of suitability ATEX IECEX IECE	Safety related data			
electromagnetic compatibility ATEX certificate of suitability ATEX ATEX IECEX IECEX Certificate of protection according to ATEX directive 2014/34/EU ATEX ACCORDING ATEX directive 2014/34/EU EVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] ATEX BYES BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] ATEX BYES BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] ATEX BYES BVS 18 ATEX F 003 X II (2)G [Ex eb Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb] ATEX BYES BVS 18 ATEX F 003 X BVS 18 ATEX F 003		IP00; IP20 with cover		
certificate of suitability ATEX ATEX IECEX Certificate of protection according to ATEX directive 2014/34/EU EVENT SUITABLE S	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with co	over	
e ATEX e IECEx e according to ATEX directive 2014/34/EU bype of protection according to ATEX directive 2014/34/EU li (2)G [Ex eb 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 PFDavg with low demand rate according to IEC 61508 relating to ATEX PFHD with high demand rate according to EN 62061 relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	electromagnetic compatibility	acc. to IEC 60947-4-2		
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		3 s		
	Certificates/ approvals			
			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

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=3RW5525-3HA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5525-3HA06

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HA06

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5525-3HA06&lang=en

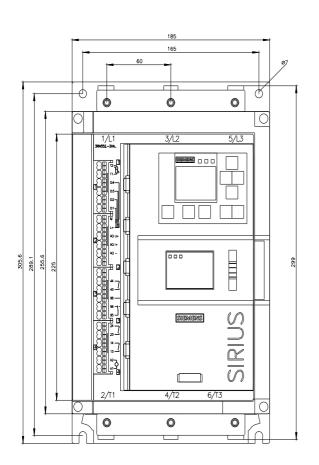
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HA06/char

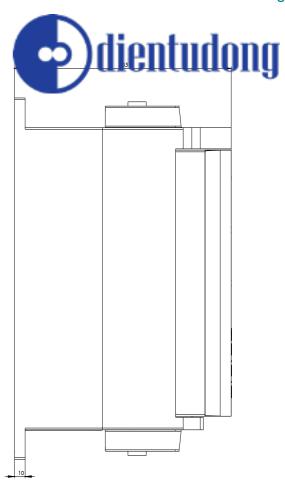
Characteristic: Installation altitude

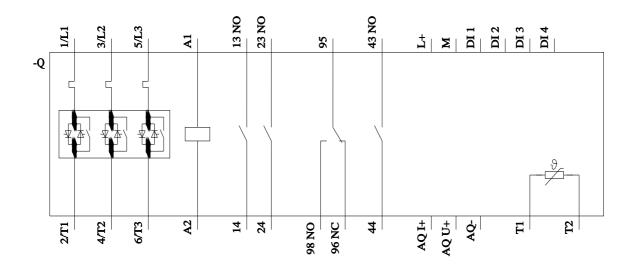
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5525-3HA06&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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