SIEMENS



Data sheet 3RW5545-6HA16



SIRIUS soft starter 200-690 V 315 A, 110-250 V AC Screw 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 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1334-2; Type of coordination 2, Iq = 65 kA

usable up to 690 v	
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
CSA approval product component	Yes (Section 2) dientudong
product component • HMI-High Feature	Yes JUICHUUUIIU
•	Yes
• is supported HMI-High Feature	
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	
between main and auxiliary circuit	690 V; does not apply for thermistor connection
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
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 	Yes
 via software configurable 	Yes
• screw terminal	Yes
	No
 spring-loaded terminal 	140
spring-loaded terminalPROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
	Yes; in connection with the PROFINET Standard and PROFINET High-
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
 PROFlenergy firmware update removable terminal for control circuit 	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules Yes
PROFlenergy firmware update	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules Yes

analog output	Yes; 4 20 mA (de Yes Yes Yes
 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 	315 A
 at 40 °C rated value minimum 	63 A
 at 50 °C rated value 	279 A
 at 60 °C rated value 	255 A
operational current at inside-delta circuit	
• at 40 °C rated value	546 A
• at 50 °C rated value	483 A
• at 60 °C rated value	442 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 	90 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	160 kW
 at 400 V at 40 °C rated value 	160 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	315 kW
 at 500 V at 40 °C rated value 	200 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	355 kW
 at 690 V at 40 °C rated value 	315 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	95 W
• at 50 °C after startup	84 W
• at 60 °C after startup	77 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	4 966 W
 at 50 °C during startup 	4 153 W
at 60 °C during startup	3 646 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• 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	-15 %
voltage at AC at 60 Hz	

relative positive tolerance of the control supply voltage at AC at 60 Hz	10 % 50 60 Hz dientudong
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	150 mA
locked-rotor current at close of bypass contact maximum	0.87 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 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	393 mm
height width	210 mm
width	210 mm
width depth	210 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm
width depth required spacing with side-by-side mounting • forwards	210 mm 203 mm 10 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m
width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²)
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
width depth required spacing with side-by-side mounting	210 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 10.2 kg busbar connection screw-type terminals 45 mm 50 m 150 m 250 m 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)

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• for auxiliary and control contacts with screw-type terminals • for fauxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals installation altitude at height above sea level maximum ministratemperature • during operation • during operation • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • PROFINET standar		14 24 Nm
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• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721	· · · · · · · · · · · · · · · · · · ·	0.0 1.2 N III
• for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • Alternative according to IEC 60721 • Communication module is supported • PROFINET standard • PROFINED • Modebus TU • Wes • Standard Faults at 460/480 V according to UL • Usable for Standard Faults at 460/480 V at inside-delta circuit according to UL • Usable for Standard Faults at 460/480 V at inside-delta circuit according to UL • Usable for Standard Faults at 575/600 V according to UL • Usable for Standard Faults at 75/600 V at inside-delta circuit according to UL • Usable for Standard Faults at 75/600 V at inside-delta circuit according to UL • Of the fuse • Usable for Standard Faults at 175/600 V at inside-delta circuit according to UL • Usable for Standard Faults at 175/600 V at inside-delta circuit according to UL • Usable for Standard Faults at 175/600 V at inside-delta circuit according to UL • Usable for Standard Faults at 175/600 V at inside-delta circuit according to UL • Usable for Standard Faults at 175/600 V at inside-delta circuit 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	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication/Protocol ves elementylip ves ves ves ves ves ves ves ve	 for main contacts with screw-type terminals 	124 210 lbf·in
Ambient conditions Installation altitude at height above sea level maximum abient temperature • during operation • during storage and transport • during storage and transport • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication Protocol communication Protocol communication module is supported • PROFINET shadrad • PROFINET shigh-feature • EthenNet/IP • Modbus RTU • Modbus TCP • PROFINES UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 4575/600 V according to UL — usable for Standard Faults at 757/600 V according to UL — usable for Standard Faults at 757/600 V according to UL — usable for Standard Faults at 757/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V according to UL — usable for Standard Faults at 157/600 V ac	 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
installation altitude at height above sea level maximum ambient temperature • during poeration • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Protocol communication Protocol communication Module is supported • PROFINET standard • PROFINET high-feature • PROFINET high-feature • PROFINET high-feature • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at total standard Faults at 575/600 V according to UL — usable for Standard Faults at total standard Faults at 575/600 V according to UL — usable for Standard Faults at total standard Faults at 575/600 V according to UL — usable for Standard Faults at total standard Faults at 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable		
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environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference communication Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 575/600 V according to UL — usable for Standard Faults at inside-delta circuit according to UL — usable for Standard Faults at inside-delta circuit according to UL — usable for Standard Faults at inside-delta circuit according to UL — usable for Standard Faults at inside-delta circuit according to UL — usable for Standard Faults at Inside-delta circuit according to UL — usable for Standard Faults at inside-delta circuit according to UL — usable for Standard	during operation	
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60947-4-2: Class A during transport according to IEC 60941 during transport according	 during storage and transport 	-40 +80 °C
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according to UL — usable for High Faults at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL • of the fuse — 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 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 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 1 Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA		Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
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 — 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 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 Type: Class J / L, max. 1000 A; Iq = 18 kA Type: Class J / L, max. 1000 A; Iq = 18 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA Type: Class J / L, max. 1000 A; Iq = 100 kA 		Siemens type: 3VA54, max. 600 A; Iq = 18 kA
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 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 [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value 100 hp	• of the fuse	
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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 100 hp		Type: Class J / L, max. 1000 A; Iq = 18 kA
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value 100 hp 	·	Type: Class J / L, max. 1000 A; Iq = 100 kA
• at 220/230 V at 50 °C rated value 100 hp	operating power [hp] for 3-phase motors	
·	 at 200/208 V at 50 °C rated value 	75 hp
	 at 220/230 V at 50 °C rated value 	100 hp
• at 460/480 V at 50 °C rated value 200 hp	 at 460/480 V at 50 °C rated value 	200 hp
• at 575/600 V at 50 °C rated value 250 hp	• at 575/600 V at 50 °C rated value	250 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value		150 hp
at 220/230 V at inside-delta circuit at 50 °C rated 200 hp	at 220/230 V at incide delta circuit at 50 °C rated	200 hp

value at 460/480 V at inside-delta circuit at 50 °C rated 400 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 500 hp value contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front according to IEC IP00; IP20 with cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover acc. to IEC 60947-4-2 electromagnetic compatibility ATEX certificate of suitability Yes ATEX IECEx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X type of protection according to ATEX directive II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 2014/34/EU I (M2) [Ex db Mb] hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508 0.008 relating to ATEX PFHD with high demand rate according to EN 62061 5E-7 1/h relating to ATEX Safety Integrity Level (SIL) according to IEC 61508 SIL1 relating to ATEX T1 value for proof test interval or service life 3 s according to IEC 61508 relating to ATEX



Certificates/ approvals

General Product Approval

Confirmation









EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other



LRS



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=3RW5545-6HA16

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-6HA16

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-6HA16

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5545-6HA16&

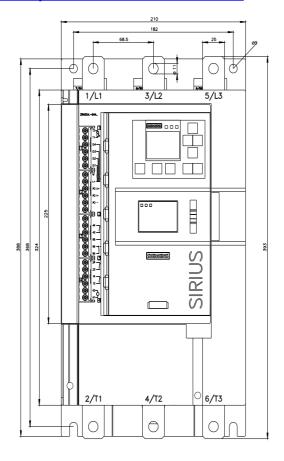
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-6HA16/char

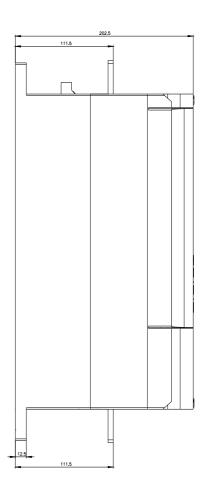
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545 13&objecttype=14&gridview=view

Simulation Tool for Soft Starters (STS)

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





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