SIEMENS

Data sheet 3RW5514-3HA04



SIRIUS soft starter 200-480 V 18 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 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4EA10: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1802-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8020-1: Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3

accuracy class acc. to IEC 61557-12	5 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
recovery time after overload trip adjustable	60 1 800 s
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
utilization category acc. to IEC 60947-4-2	AC 53a
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
	ap to 0 g ap to 000
reference code acc. to IEC 81346-2	Q
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting)	Q 15.02.2018 00:00:00 Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • waluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

spring-type 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
• combined braking	
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	Yes
automatic parameterisation	Yes
application wizards	Yes
 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 	18 A
 at 40 °C rated value minimum 	3.5 A
 at 50 °C rated value 	15.9 A
 at 60 °C rated value 	13.8 A
operational current at inside-delta circuit	
 at 40 °C rated value 	31.5 A
at 50 °C rated value	28 A
at 60 °C rated value	23.9 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit	
operating power for 3-phase motors	A 1.3A/
• at 230 V at 40 °C rated value	4 kW
• at 230 V at inside-delta circuit at 40 °C rated value	7.5 kW
• at 400 V at 40 °C rated value	7.5 kW
at 400 V at inside-delta circuit at 40 °C rated value	15 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	
power loss [W] for rated value of the current at AC • at 40 °C after startup	5 W
power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup	5 W 5 W
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	5 W
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 %	5 W 5 W 4 W
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 % • at 40 °C during startup	5 W 5 W
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 %	5 W 5 W 4 W
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 % • at 40 °C during startup	5 W 5 W 4 W
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 % • at 40 °C during startup • at 50 °C during startup	5 W 5 W 4 W 266 W 229 W
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 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup	5 W 5 W 4 W 266 W 229 W 188 W
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 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup type of the motor protection	5 W 5 W 4 W 266 W 229 W 188 W
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 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup type of the motor protection Control circuit/ Control	5 W 5 W 4 W 266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor
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 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup type of the motor protection Control circuit/ Control type of voltage of the control supply voltage	5 W 5 W 4 W 266 W 229 W 188 W Electronic, tripping in the event of thermal overload of the motor

at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
 at DC rated value 	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	420 mA
holding current in bypass operation rated value	820 mA
locked-rotor current at close of bypass contact maximum	0.91 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	4
number of digital outputs parameterizable	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	·
at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	
	0 mm
• upwards	
upwardsdownwards	0 mm
·	0 mm 100 mm
• downwards	0 mm 100 mm 75 mm
downwardsat the side	0 mm 100 mm 75 mm 5 mm
downwards at the side weight without packaging	0 mm 100 mm 75 mm 5 mm
downwards at the side weight without packaging Connections/ Terminals	0 mm 100 mm 75 mm 5 mm
downwards at the side weight without packaging Connections/ Terminals type of electrical connection	0 mm 100 mm 75 mm 5 mm 2.3 kg

with conductor cross-section = 1.5 mm² maximum		
with conductor cross-section = 1.5 mm² maximum with conductor cross-sections • for main contacts • for control circuit solid • for control circuit finely stranded with core end processing • if control circuit solid • for control circuit finely stranded with core end processing • if control circuit finely stranded with core end processing • if AWG cables for control circuit solid • if with endities of the processing • if AWG cables for control circuit solid • if with endities of the processing • between soft starter and motor maximum • at the digital inputs at IDC maximum • between soft starter and motor maximum • at the digital inputs at IDC maximum • at the digital inputs at IDC maximum • for availiary and control contacts with screw-type terminals • for main contacts with screw-type terminals •	wire length for thermistor connection	
### conductor cross-sections	• with conductor cross-section = 0.5 mm² maximum	50 m
type of connectable conductor cross-sections • for main contacts — solid — Inely stranded with core end processing • at AWC cables for main current circuit solid • for control circuit finely stranded with core end processing • at AWC cables for control circuit finely stranded with core end processing • at AWC cables for control circuit finely stranded with core end processing • at AWC cables for control circuit finely stranded with core end processing • at AWC cables for control circuit finely stranded with core end processing • at AWC cables for control circuit finely stranded with core end processing • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for main contacts • fo		
• for main contacts — solid — finely stranded with core end processing — solid — finely stranded with core end processing • for control circuit solid • re and AVIC cables for main current circuit solid • re or control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • all AVIC cables for control circuit solid • all AVIC cables for control circuit finely stranded with core end processing • all AVIC cables for control circuit solid • all AVIC cables for control contacts with screw-type terminals • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contact	• with conductor cross-section = 2.5 mm² maximum	250 m
	type of connectable conductor cross-sections	
finely stranded with core end processing	• for main contacts	
e at AWG cables for main current circuit solid type of connectable conductor cross-sections	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
type of connectable conductor cross-sections	 finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
• for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • between soft starler and motor maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts • fo	at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at DC maximum 1000 m 100	type of connectable conductor cross-sections	
o at AWG cables for control circuit soild • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at DC maximum • of main contacts with screw-type terminals • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • during approach of terminals at terminals with screw-type terminals • during operation acc. to IEC 60721 • verification in the	 for control circuit solid 	2x (0.25 1.5 mm²)
at AMG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type • for main contacts with screw-type terminals • for auxillairy and control contacts with screw-type • for main contacts with screw-type • for for main contacts with screw-type • for main contacts with screw-type • for for the	· · · · · · · · · · · · · · · · · · ·	2x (0.25 1.5 mm²)
wire length • between soft starter and motor maximum • at the digital inputs at DC maximum 1 000 m	 at AWG cables for control circuit solid 	2x (24 16)
between soft starter and motor maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals of ror auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals of ror auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals of ror auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminal		2x (24 16)
• at the digital inputs at DC maximum tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for 0 main contacts with screw-type terminals • for	wire length	
tightening torque • for main contacts with screw-type terminals • for auxiliary and control	 between soft starter and motor maximum 	800 m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary 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 • for auxiliary and control contacts with screw-type terminals • during peration • during peration acc. to IEC 60721 • for (E 60721 • for (C Please observe derating at temperatures of 40 °C or ab	at the digital inputs at DC maximum	1 000 m
tightening torque (lbf-in] • for main contacts with screw-type terminals • for auxiliary and control on on on manufactures of force of control on one and temperatures of force of c	tightening torque	
tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary 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 ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET high-feature • PROFINET standard • PROFINED • Description • Auxiliary and control contacts with screw-type terminals **Yes • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS **UCSA ratings** manufacturer's article number • 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 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 4575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	 for main contacts with screw-type terminals 	2 2.5 N·m
tightening torque [lbf-in] • for main contacts with screw-type terminals • for awailiary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during goeration • during storage and transport • during storage and transport • during gorage and transport • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • PROFIBUS manufacturer's article number • 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 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 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 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 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 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 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A		0.8 1.2 N·m
• 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 operation • during storage and transport • during storage and transport • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus TU • Modbus TU • Nodbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — 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 Standard 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 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 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 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 450/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
emailiary and control contacts with screw-type terminals Anbient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during peration acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication Protocol Communication Protocol Communication Protocol PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus RTU • LetherNet/IP • Modbus RTU • Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA 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 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 Fligh Faults at 460/480 V at inside-delta circuit according to UL — usable for Flandard Faults at 455/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		40 00 11 5
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus TU • Modbus TU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Fligh Faults at 460/480 V at inside-delta circuit according to UL — usable for Fligh Faults at 460/480 V at inside-delta circuit according to UL — usable for Fligh Faults at 460/480 V at inside-delta circuit according to UL — usable for Fligh 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 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 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
Ambient conditions Installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during storage and transport • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication Protocol Communication Module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET stigh-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS Wes UL/CSA ratings manufacturer's article number • 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 460/480 V at inside-delta circuit according to UL — usable for High 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 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 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 450/480 V at inside-delta circuit according to UL — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 KA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 KA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 KA		/ 10.3 lbt·in
installation altitude at height above sea level maximum ambient temperature during operation during storage and transport during operation acc. to IEC 60721 during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 during transport acc. to IEC 60721 EMC emitted interference communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker 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 Flandard Faults at 460/480 V at inside-delta circuit according to UL usable for Flandard 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 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 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 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 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
ambient temperature • during operation • during storage and transport • during storage and transport • during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS **Ves *		5 000 m; Derating as of 1000 m, see catalog
 during operation during storage and transport during storage and transport during operation acc. to IEC 60721 during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 during transport acc. to IEC 60721 during transport acc. to IEC 60721 EMC emitted interference communication Protocol PROFINET standard PROFINET standard PROFIBUS Modbus RTU PROFIBUS PROFIBUS Yes PROFIBUS Yes PROFIBUS Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA isiemens type: 3RV2742, max.		5 000 HI, Detailing as of 1000 HI, see catalog
above -40 +80 °C environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference communication/ Protocol communication/ Protocol • PROFINET standard • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • PROFIBUS Tyes • PROFIBUS Tubel of or Standard Faults at 460/480 V according to UL — usable for High 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 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 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 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	•	-25 +60 °C: Please observe denating at temporatures of 40 °C or
 • 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 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS Ves • PROFIBUS Ves • PROFIBUS UL/CSA ratings manufacturer's article number • 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 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 	uulling operation	
environmental category • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference • Communication Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS PROFIBUS Tusable 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 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 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 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 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 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 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	during storage and transport	
 during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 1K6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Protocol communication module is supported PROFINET standard PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number 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 High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742		
mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFIBUS • PROFIBUS UL/CSA ratings manufacturer's article number • 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 High 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 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 High 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 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		3K6 (no ice formation, only occasional condensation), 3C3 (no salt
ot get inside the devices), 1M4 * during transport acc. to IEC 60721 EMC emitted interference communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS **Yes PROFIBUS **Yes PROFIBUS **Yes **Inside-field circuit 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 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 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 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 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 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 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	.	mist), 3S2 (sand must not get into the devices), 3M6
 during transport acc. to IEC 60721 2KZ, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS Yes PROFIBUS UL/CSA ratings manufacturer's article number 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 High Faults at 460/480 V at inside-delta circuit according to UL usable for High 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 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 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 450/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Sieme	• during storage acc. to IEC 60721	
EMC emitted interference communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS wasale 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 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 High Faults at 460/480 V at inside-delta circuit according to UL usable for High 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 High 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 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA Siemens type: 3RV2742, max. 35 A; lq max = 65 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3VA51, max. 35 A; lq max = 65 kA	during transport acc. to IEC 60721	, , , , , , , , , , , , , , , , , , ,
communication/ Protocol communication module is supported PROFINET standard PROFINET high-feature PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS ves PROFIBUS wes UL/CSA ratings manufacturer's article number 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 High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 65 KA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 KA		, , , , , , , , , , , , , , , , , , , ,
communication module is supported PROFINET standard PROFINET high-feature PROFINET high-feature PROFINET high-feature PROFINET high-feature PROFINET high-feature Profine Modbus RTU Pes Modbus RTU Pes PROFIBUS Pres PROFIBUS Pres PROFIBUS Wes PROFIBUS Wes Ves Ves UL/CSA ratings Wanufacturer's article number Of circuit breaker Usable for Standard Faults at 460/480 V according to UL Usable for High Faults at 460/480 V at inside-delta circuit according to UL Usable for High Faults at 460/480 V at inside-delta circuit according to UL Usable for High Faults at 460/480 V at inside-delta circuit according to UL Usable for High Faults at 460/480 V at inside-delta circuit according to UL Usable for High Faults at 460/480 V at inside-delta circuit according to UL Usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		460. to 120 00047-4-2. Olass A
 PROFINET standard PROFINET high-feature EtherNet/IP Modbus RTU Modbus RTU Modbus TCP PROFIBUS Yes Modbus TCP PROFIBUS Yes Yes Yes Modbus TCP Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		
 PROFINET high-feature EtherNet/IP Modbus RTU Modbus TCP PROFIBUS PROFIBUS Yes PROFIBUS Ves UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High 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 460/480 V at inside-delta circuit according to UL — usable for High 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 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 	•••	Voc
 EtherNet/IP Modbus RTU Modbus TCP Modbus TCP Modbus TCP Yes Yes PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		
Modbus RTU Modbus TCP PROFIBUS Yes Ves Ves Ves UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	_	
 Modbus TCP PROFIBUS Yes Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Yes Yes Yes Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		
● PROFIBUS Wes ### PROFIBUS ### Profice in the image is a profit of the image is a		
manufacturer's article number ■ of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		
 ■ of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3VA51, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		res
 of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		
 — usable for Standard Faults at 460/480 V according to UL — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for High 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 Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA 		
according to UL — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		
to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	according to UL	2 ,
inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	to UL	kA
delta circuit according to UL — usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	inside-delta circuit according to UL	
	delta circuit according to UL	,,
		Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA

- usable for High Faults at 575/600 V at inside-Siemens type: 3VA51, max. 35 A; Iq max = 65 kA delta circuit according to UL - usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA inside-delta circuit according to UL of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 70 A; Iq = 5 kA according to UL — usable for High Faults up to 575/600 V Type: Class J / L, max. 70 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 70 A; Iq = 5 kA circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up Type: Class J / L, max. 70 A; Iq = 100 kA to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value 3 hp • at 220/230 V at 50 °C rated value 5 hp at 460/480 V at 50 °C rated value 10 hp • at 200/208 V at inside-delta circuit at 50 °C rated 7.5 hp value at 220/230 V at inside-delta circuit at 50 °C rated 7.5 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 20 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front acc. to IEC 60947-4-2 electromagnetic compatibility certificate of suitability ATEX Yes 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 acc. to IEC 61508 relating to **ATEX** PFDavg with low demand rate acc. to IEC 61508 0.008 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating 0.0000005 1/h to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1

Certificates/ approvals

General Product Approval

IEC 61508 relating to ATEX

EMC

For use in hazardous locations





T1 value for proof test interval or service life acc. to



3 y







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=3RW5514-3HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5514-3HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5514-3HA04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

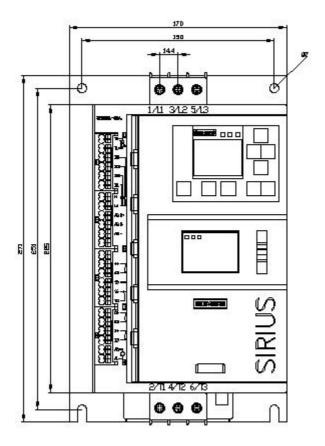
https://support.industry.siemens.com/cs/ww/en/ps/3RW5514-3HA04/char

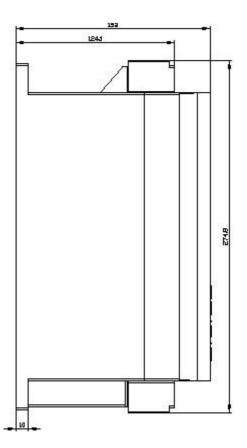
Characteristic: Installation altitude

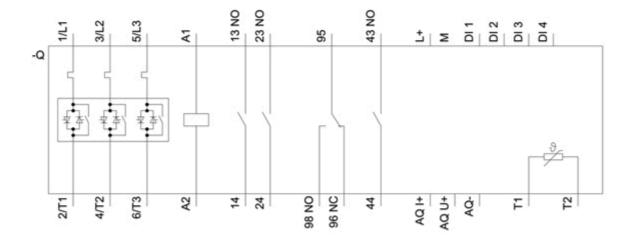
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5514-3HA04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 3/9/2021 🖸