SIEMENS

Data sheet 3RW5558-6HA14

SIRIUS



SIRIUS soft starter 200-480 V 1280 A, 110-250 V AC Screw terminals

Figure similar

product brand name

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 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NB3357-1KK26: Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3x3NE3340-8; 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

# HMH-High Feature # Yes # Supported HMH-High Feature # Yes		_
e is supported HMI-High Feature Product feature integrated bypass contact system number of controlled phases 19 class 10 class 10A / 10E (default) / 20E / 30E; sect. to IEC 60947-4-2 10 closs 1	product component	
product feature integrated bypass contact system number of controlled phases 3 CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 current unbalance limiting value [%] ground-fault monitoring limiting value [%] frecovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for main adjustable • for main current circuit • for main adjustable • for main current circuit • for main curre	3	
number of controlled phases trip class Current unbalance limiting value [%] ground-fault monitoring limiting value [%] buffering time in the event of power failure • for man current circuit 100 ms • for control		
trip class current unbalance limiting value [Ys] ground-fault monitoring limiting value [Ys] ground-fault monitoring limiting value [Ys] ground-fault monitoring limiting value [Ys] 10 89 % recovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for main current circuit • for main current circuit • for control circuit value value voltage rated value dispress of pollution 3. acc. to IEC 60947-4-2 insulation voltage rated value 6 kV degree of pollution 3. acc. to IEC 60947-4-2 insulation voltage 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 S3a shock resistance 15 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 8 g / 11 ms with potential contact lifting vibration resistance 15 mup to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) product function • emp-up (soft stating) • emp-down (soft stop) • resistance • ramp-up (soft stating) • emp-down (soft stating) • emp-down (soft stating) • emp-down (soft stating) • emp-down (soft stating) • recovering device protection • corep speed in both directions of rotation • pump ramp down • Dc braking • motor healing • lave pointer function • ves • valuation of thermistor motor protection • motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit • evaluation of thermistor motor protection • motor overload protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection overload protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection overload protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protectio		
current unbalance limiting value [%] 10 95 % ground-fault monitoring limiting value [%] 10 95 % secovery time after overload trip adjustable 60 1 800 s buffering time in the event of power failure • for control circuit 100 ms • for control circuit 100 ms • for control circuit 100 ms • for main current circuit 100 ms • for main current circuit 100 ms • for main current circuit 100 ms • for control contr	·	
ground-fault monitoring limiting value [½] recovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for main current circ	•	
recovery time after overload trip adjustable buffering time in the event of power failure • for main current circuit • for control circ		
buffering time in the event of power failure • for main current circuit • for control circuit 100 ms • for control circuit 100 ms • for control circuit 1480 V degree of pollution impulse voltage rated value 6 kV degree of pollution 1 400 V service factor 1 1.5 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 ace. to IEC 60947-4-2 AC S3a shock resistance 15 mm up to 6 Hz; 2 g up to 500 Hz vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz verance code acc. to IEC 81346-2 Q Substance Prohibitance (Date) • ramp-up (soft starting) • respect unction • ramp-up (soft starting) • ramp-up (soft starting) • ramp-up (soft starting) • ramp-up (soft starting) • respect unction • ramp-up (soft starting) • respect unction		
For main current circuit		60 1 800 s
• for control circuit 100 ms	•	
Insulation voltage rated value degree of pollution agriculture degree of pollution blocking voltage of the thyristor maximum service factor surge voltage resistance rated value blocking voltage resistance rated value blocking voltage of the thyristor maximum service factor surge voltage resistance rated value between main and auxiliary circuit 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 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 Geference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starling) • ramp-down (soft storl) • breakaway pulse • ramp-down (soft storl) • breakaway pulse • ramp-down (soft storl) • pump ramp down • DC braking • motor heating • siave pontier function • race function • motor overload protection • motor overload protection • motor overload protection • reside-delta circuit • evaluation of thermistor motor protection • remote reset • communication function • per annual RESET • manual RESET • memote reset • communication function • yes • communication function • yes • communication function • yes • remote reset • communication function • yes • venet list • creor togdook • via software parameterizable • via software configurable • via software configurable • via software configurable • vis oftware configurable • vis oftware configurable • vis firmware update		
insulation voltage rated value degree of pollution 3, a.c. to IEC 60947-4-2 impulse voltage rated value 6 kV blocking voltage of the thyristor maximum 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 S3a shock resistance 15 g/ 11 ms. from 6 g / 11 ms with potential contact lifting vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11,02 2019 00:00:00 product function • ramp-up (soft starting) • ramp-down (soft stop) • ramp down • creep speed in both directions of rotation • creep speed in both directions of rotation • race function •		
degree of pollution 3, acc. to IEC 60947-4-2 Impulse voltage rated value 6 kV		
Impulse voltage rated value 1400 V		
Diocking voltage of the thyristor maximum 1,400 V		
service factor surge voltage resistance rated value Set Association Associatio		
surge voltage resistance rated value 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 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02 2019 00:00:00 ramp-up (soft starting) • ramp-up (soft starting) • ramp-down (soft stop) • ramp-down (soft stop) • ramp-down (soft stop) • ramp-down (soft stop) • read-way pulse • adjustable current limitation • creep speed in both directions of rotation • creep speed in both directions of rotation • pump ramp down • pump ramp down • Pes • DC braking • motor heating • slave pointer function • intrinsic device protection • motor overload protection • motor overload protection • motor overload protection • motor overload protection of ATEX, an upstream contactor is required in inside-delta circuit. • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • remote reset • communication function • operating measured value display • ves • event list • error logbook • vis software parameterizable • via software parameterizable • via software porting and • PROFlenergy • firmware update		
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 shock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02.2019 00:00:00 • ramp-down (soft storing) • ramp-down (soft storing) • ramp-down (soft storing) • ramp-down (soft storing) • product function • ramp-up (soft starting) • ramp-down (soft storing) • product function (Pes • adjustable current limitation (Pes • adjustable current limitation (Pes • creep speed in both directions of rotation (Pes • pump ramp down (Pes • DC braking (Pes • slave pointer function (Pes • slave pointer function (Pes • intrinsic device protection (Pes • motor overload protection (Pes • motor overload protection (Pes • motor overload protection (Pes • ramp-up (soft starting) (Pes • ramp-down (soft storing) (Pes •		
between main and auxiliary circuit 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 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) product function * ramp-up (soft starting) * ramp-down (soft storp) * breakaway pulse * adjustable current limitation * creep speed in both directions of rotation * pump ramp down DC braking * slave pointer function * trace function * motor overload protection * motor overload protection * motor overload protection * inside-delta circuit * auto-RESET * manual RESET * remote reset * communication function * operating measured value display * event list * event list * error logbook * via software configurable		6 kV
utilization category acc. to IEC 60947-4-2 AC 53a shock resistance 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02.2019 00:00:00 product function 11.02.2019 00:00:00 e ramp-down (soft stop) Yes e ramp-down (soft stop) Yes e breakaway pulse Yes e adjustable current limitation Yes e pump ramp down Yes e DC braking Yes e motor heating Yes e slave pointer function Yes e trace function Yes e trace function Yes e intrinsic device protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick in side-delta circuit Yes remote reset Yes evaluation of thermistor motor protect		
shock resistance vibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02.2019 00:00:00 ramp-up (soft starting) ramp-down (soft stop) breakway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function ves ves valuation of thermistor motor protection ves; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection inside-delta circuit ves auto-RESET remote reset ves communication function operating measured value display ves event list ves event list ves via software parameterizable via software configurable ves vias oftmare update ves vias inconnection with the PROFINET Standard and PROFINET High-Feature communication modules ves		
wibration resistance 15 mm up to 6 Hz; 2 g up to 500 Hz reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 11.02.2019 00:00:00 product function Yes • ramp-up (soft starting) 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 • slave pointer function Yes • trace function Yes • motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes • communication function Yes • very logbook <td< th=""><th></th><th></th></td<>		
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 reference code acc. to IEC 81346-2 Pes adjustable current limitation reference code acc. to IEC 81346-2 reference code acc. to IEC 81346-2 Yes reference code acc. to IEC 81346-2 11.02.2019 00:00:00 Yes reference code acc. to IEC 81346-2 Int.02.2019 00:00:00 Yes reference code acc. to IEC 81346-2 Yes reference code acc. to IEC 81346-2 Int.02.2019 00:00:00 Yes reference code acc. to IEC 81346-2 Yes reference code acc. to IEC 81346-2 Int.02.2019 00:00:00 Yes reference code acc. to IEC 81346-2 Yes reference code acc. to IEC 813	shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
Substance Prohibitance (Date) The product function Framp-up (soft starting) Yes Framp-down (soft storp) Yes Yes Framp-down (soft storp) Yes Ye	vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
product function • ramp-up (soft starting) • ramp-up (soft starting) • 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 • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection) • motor overload protection • motor overload protection) • motor overload protection (thermistor motor protection according to ATEX, an upstream contactor is required in inside-delta circuit. • evaluation of thermistor motor protection • inside-delta circuit • evaluation of thermistor motor protection • inside-delta circuit • evaluation of thermistor motor protection • reset or Klixon / Thermoclick • required in inside-delta circuit • evaluation of thermistor motor protection • reset • remote reset • reset • communication function • reset • remote reset • reset • communication function • reset • communication function • reset • remote reset • remote reset • reset • communication function • reset • remote reset • re	reference code acc. to IEC 81346-2	Q
ramp-up (soft starting) ramp-down (soft stop) breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down pump ramp down DC braking motor heating slave pointer function intrinsic device protection motor overload protection res; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. evaluation of thermistor motor protection inside-delta circuit auto-RESET remota reset auto-RESET remota reset communication function operating measured value display event list resort list	Substance Prohibitance (Date)	11.02.2019 00:00:00
 ramp-down (soft stop) b reakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down pump ramp down Pes DC braking motor heating slave pointer function trace function trace function intrinsic device protection motor overload protection yes intrinsic device protection yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. evaluation of thermistor motor protection inside-delta circuit evaluation of thermistor motor protection inside-delta circuit yes auto-RESET remanual RESET remote reset communication function operating measured value display event list ves event list ves event list error logbook via software parameterizable via software configurable via software configurable ves everw terminal ves screw terminal PROFlenergy firmware update Feature communication modules Yes	product function	
breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking slave pointer function reac function retare function retare function retare very limit and substitution retared function retared	ramp-up (soft starting)	Yes
 adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function trace function motor overload protection motor overload protection evaluation of thermistor motor protection inside-delta circuit evaluation of thermistor motor protection inside-delta circuit evaluation RESET manual RESET remote reset communication function operating measured value display event list event list event software parameterizable via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update 	ramp-down (soft stop)	Yes
oreep speed in both directions of rotation pump ramp down Yes DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection motor overload protection motor overload protection wealuation of thermistor motor protection inside-delta circuit evaluation of thermistor motor protection inside-delta circuit auto-RESET manual RESET manual RESET remote reset communication function operating measured value display event list event list event list event of software parameterizable via software parameterizable screw terminal spring-type terminal PROFlenergy firmware update ves v	 breakaway pulse 	Yes
 pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection motor overload protection motor overload protection yes motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. evaluation of thermistor motor protection yes; Type A PTC or Klixon / Thermoclick inside-delta circuit yes auto-RESET manual RESET remote reset communication function yes communication function yes event list error logbook via software parameterizable via software parameterizable via software configurable screw terminal spring-type terminal preotupe terminal<!--</th--><th> adjustable current limitation </th><th>Yes</th>	 adjustable current limitation 	Yes
 DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection evaluation of thermistor motor protection evaluation of thermistor motor protection inside-delta circuit evaluation of thermistor motor protection inside-delta circuit yes auto-RESET manual RESET remote reset communication function operating measured value display event list event list yes evror logbook via software parameterizable via software configurable spring-type terminal PROFlenergy firmware update 	 creep speed in both directions of rotation 	Yes
 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 operating measured value display event list event list yes orror logbook via software parameterizable via software configurable spring-type terminal PROFlenergy firmware update yes 	pump ramp down	Yes
 slave pointer function trace function intrinsic device protection motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) westpand protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) westpand protection evaluation of thermistor motor protection evaluation of thermistor motor protection yes; Type A PTC or Klixon / Thermoclick inside-delta circuit yes auto-RESET manual RESET remote reset communication function yes communication function operating measured value display event list event list yes event list yes via software parameterizable via software configurable yes screw terminal spring-type terminal PROFlenergy firmware update Yes 	 DC braking 	Yes
 trace function intrinsic device protection motor overload protection Yes yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. evaluation of thermistor motor protection yes; Type A PTC or Klixon / Thermoclick inside-delta circuit yes auto-RESET manual RESET remote reset communication function operating measured value display event list event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes firmware update 	motor heating	Yes
 intrinsic device protection motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. evaluation of thermistor motor protection inside-delta circuit inside-delta circuit yes auto-RESET manual RESET remote reset communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes yes firmware update 	 slave pointer function 	Yes
 motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. 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 via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit Yes <	trace function	Yes
motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET • manual RESET • remote reset • communication function • operating measured value display • event list • error logbook • via software parameterizable • via software configurable • screw terminal • spring-type terminal • PROFlenergy • firmware update motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit Yes; Type A PTC or Klixon / Thermoclick Yes * yes * yes * yes • ves • ves • ves • ves • ves • ves • via verification of the motor overload protection in scale and circuit. Yes • ves • ves • ves • ves • via verification of the motor overload protection in scale and circuit. * ves • ves • ves • ves • via verification of the mission of the motor overload protection in scale and circuit. * ves • ves • ves • ves • via verification in inside-delta circuit. Yes • ves	 intrinsic device protection 	Yes
 inside-delta circuit auto-RESET manual RESET remote reset communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes Yes yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	motor overload protection	motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta
 auto-RESET manual RESET remote reset communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes Yes Yes Tenders Yes 	 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick
 manual RESET remote reset communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes Yes Yes Testure communication modules Yes 	• inside-delta circuit	Yes
 remote reset communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	auto-RESET	Yes
 communication function operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes 	manual RESET	Yes
 operating measured value display event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes Yes Some connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	• remote reset	Yes
 event list error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFIenergy firmware update Yes Yes 	 communication function 	Yes
 error logbook via software parameterizable via software configurable screw terminal spring-type terminal PROFIenergy firmware update Yes Yes Yes Yes Yes Yes Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	 operating measured value display 	Yes
 via software parameterizable via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes Yes No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	event list	Yes
 via software configurable screw terminal spring-type terminal PROFlenergy firmware update Yes No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	 error logbook 	Yes
 screw terminal spring-type terminal PROFlenergy firmware update Yes Yes No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	 via software parameterizable 	Yes
 spring-type terminal PROFIenergy firmware update No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules Yes 	 via software configurable 	Yes
 PROFlenergy Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules Yes 	• screw terminal	Yes
Feature communication modules • firmware update Yes	 spring-type terminal 	No
		Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules
• removable terminal for control circuit Yes	• firmware update	Yes
	 removable terminal for control circuit 	Yes

voltage ramp	Yes
 torque control 	Yes
 combined braking 	Yes
 analog output 	Yes; 4 20 mA (default) / 0 10 V
 programmable control inputs/outputs 	Yes
 condition monitoring 	Yes
 automatic parameterisation 	Yes
application wizards	Yes
alternative run-down	Yes
emergency operation mode	Yes
reversing operation	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
at 40 °C rated value	1 280 A
at 40 °C rated value minimum	256 A
at 50 °C rated value	1 139 A
at 60 °C rated value	1 030 A
operational current at inside-delta circuit	
• at 40 °C rated value	2 217 A
• at 50 °C rated value	1 973 A
at 60 °C rated value	1 784 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 inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	400 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	710 kW
 at 400 V at 40 °C rated value 	710 kW
at 400 V at inside-delta circuit at 40 °C rated value	1 200 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 	384 W
 at 50 °C after startup 	337 W
at 60 °C after startup	275 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	23 279 W
 at 50 °C during startup 	19 496 W
at 60 °C during startup	16 778 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 %

voltage at AC at 60 Hz control supply voltage frequency relative positive tolerance of the control supply voltage frequency		
relative positive tolerance of the control supply voltage at 24 at 69 tz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value Locked-roter current at close of bypass contact maximum nunch current peak at application of control supply voltage maximum duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage maximum duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at application of control supply voltage duration of innush current peak at applicatio		-15 %
control supply voltage frequency 10	relative positive tolerance of the control supply	10 %
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value holding current in bypass operation rated value incide-order current at close of bypass contact maximum mush current peak at application of control supply voltage maximum duration of mush current peak at application of control design of the overvoltage protection design of short-circuit protection for control circuit spubly voltage design of the overvoltage protection design of short-circuit protection for control circuit **A get fuse four-1 kA), 8 A quick-acting fuse (tou-1 kA), C1 ministure rought breaker (tou-800 A), C6 ministure circuit breaker (tou-800 A), is number of digital inputs **A parameterizable **Inumber of digital inputs **A parameterizable **Inumber of digital outputs **In		50 60 Hz
relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypess operation rated value clocked-rotor current at close of bypass contact maximum inush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit supply voltage design of the overvoltage protection design of insurent peak at application of control supply voltage design of the overvoltage protection design of hort-circuit protection for control circuit speak of the overvoltage protection design of the overvoltage protection design of the overvoltage protection design of particuit protection for control circuit speak of the overvoltage protection design of short-circuit protection for control circuit **parameter/zable** **unmber of digital inputs** **parameter/zable** **unmber of digital outputs **unmber of digital outputs parameter/zable **unmber of digital outputs **parameter/zable** **unmber of digital outputs and parameter/zable **parameter/zable** **unmber of digital outputs **and DC-13 at 24 V rated value **and	relative negative tolerance of the control supply	-10 %
Control supply current in standby mode rated value 100 mA 10 mA	relative positive tolerance of the control supply	10 %
Dolding current in bypass operation rated value 210 mA 1		100 mA
maximum inust current peak at application of control supply voltage maximum duration of inush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit must of digital inputs • parameterizable • number of digital inputs • number of digital outputs • number of digital outputs parameterizable • number of aligital outputs • at AC-15 at 250 V rated value • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • at Contract of the relay outputs • at AC-15 at 250 V rated value • for a to Contract of the relay outputs • at Contract of the relay outputs • at Contract of the relay outputs • at Contract of the relay outputs • forwards • formards • formards • formards • for control circuit • for control		210 mA
maximum duration of insush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit asign of short-circuit protection for control circuit breaker (lou= 800 A), C8 miniature circuit breaker (lou= 300 A), Is number of digital inputs a parameterizable a parameterizable a number of digital outputs a number of digital outputs parameterizable a number of digital outputs not parameterizable a number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value at DC-13 at 24 V rated value breaking position Vertical (can be rotated +/- 90" and tilted forward or backward +/- 22.5") Table in the side backwards backwards backwards backwards backwards backwards cupwards cupwards cupwards cupwards backwards cupwards	• • • • • • • • • • • • • • • • • • • •	1 A
supply voltage design of the overvoltage protection design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection design of supply design of su		44 A
design of short-circuit protection for control circuit 4 A GG fuse (fcu=1 kA), 6 A quick-acting fuse (fcu=1 kA), C1 miniature circuit breaker (fcu=300 A); is not part of scope of supply		1.7 ms
inputs/ Outputs number of digital inputs parameterizable number of inputs for thermistor connection in mumber of digital outputs number of digital outputs number of digital outputs parameterizable number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value 1 A Installation/mounting/ dimensions mounting position vertical (can be rotated +/- 90° and bitted forward or backward +/- 22.5°) fastening method screw fixing height 764 mm wickth depth required spacing with side-by-side mounting forwards upwards upwards downwards to mm to mm obackwards downwards to mm to mm obackwards downwards to mm other thermistor connection of or main current circuit for control circuit for control circuit width of connection bar maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum so the conductor cross-section = 2.5 mm² maximum so the conductor cros		Varistor
number of digital inputs parameterizable 1	design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
number of inputs for thermistor connection 1: Type A PTC or Klixon / Thermoclick	Inputs/ Outputs	
number of linjuts for thermistor connection • number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs 1 switching capacity current of the relay outputs • at Ac-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/dimensions mounting position fastening method height 764 mm depth required spacing with side-by-side mounting • forwards • upwards • at the side • for control circuit • for control circuit • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • cross-section	number of digital inputs	4
• number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position Sorew fixing mounting position fastening method height indepth	 parameterizable 	4
• number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at AC-15 at 250 V rated value • at CC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastenling method height width depth required spacing with side-by-side mounting • forowards • upwards • downwards • at the side • downwards • at the side weight without packaging connections/ Terminals type of electrical connection • with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 1.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN ca	number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
• number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at AC-15 at 250 V rated value • at CC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastenling method height width depth required spacing with side-by-side mounting • forowards • upwards • downwards • at the side • downwards • at the side weight without packaging connections/ Terminals type of electrical connection • with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 1.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN ca	number of digital outputs	4
digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method screw fixing • feathing method screw fixing • forwards • backwards • outpwards • outpwards • outpwards • outpwards • at the side • or main current circuit • for control circuit width or connection bar maximum • 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 • with cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded		3
number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastening method height vidth 478 mm depth et pure of connections • backwards • at the side • at the side • of or control circuit • for control circuit • for control circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	 number of digital outputs not parameterizable 	1
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • 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 height vidth 478 mm depth required spacing with side-by-side mounting • forwards • backwards • upwards • upwards • at the side velight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts stranded	digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting of forwards backwards backwards backwards depth required spacing with side-by-side mounting of forwards backwards backwards backwards backwards depth required spacing with side-by-side mounting of forwards backwards	number of analog outputs	1
• at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position Fastening method height vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method screw fixing 764 mm width 478 mm depth required spacing with side-by-side mounting • forwards • backwards • upwards • 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 • 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 con	switching capacity current of the relay outputs	
Installation/ mounting/ dimensions Wertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method Screw fixing Screw fixing Screw fixing Meight 764 mm Meight 764 mm Meight 241 mm Meight Mei	 at AC-15 at 250 V rated value 	3 A
mounting position fastening method height 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 control circuit width of connection bar maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing foat mm 478 mm 478 mm 478 mm 409 mm 400 mm 510 mm 61 kg Connections/ Terminals busbar connection screw-type terminals busbar connection 55 mm 55 mm 450 m 550 m 150 m 2x (70 240 mm²) 2x (70 240 mm²) 4x (70 240 mm²)	 at DC-13 at 24 V rated value 	1 A
fastening method height 764 mm width 478 mm depth 241 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • 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 type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	Installation/ mounting/ dimensions	
height 764 mm width 478 mm depth 241 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit • width of connection bar maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum type of connectable conductor stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections to mm 478 mm 478 mm 60 mm 61 kg 61 kg 62 kg 63 kg 64 kg 65 mm 67 mm	mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
width 478 mm depth 241 mm required spacing with side-by-side mounting 10 mm • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 61 kg Connections/ Terminals type of electrical connection busbar connection • for main current circuit screw-type terminals width of connection bar maximum 55 mm wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (50 240 mm²) • for DIN cable lug for main contacts stranded 2x (70 240 mm²) • type of connectable conductor cross-sections	fastening method	screw fixing
depth 241 mm required spacing with side-by-side mounting 10 mm • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm weight without packaging 61 kg Connections/ Terminals type of electrical connection • for main current circuit busbar connection • for control circuit screw-type terminals width of connection bar maximum 55 mm wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (50 240 mm²) • for DIN cable lug for main contacts stranded 2x (70 240 mm²) • for DIN cable lug for main contacts finely stranded 2x (70 240 mm²)	height	764 mm
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for main current circuit • for control circuit • for control circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-sections • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded	width	478 mm
• forwards • backwards • backwards • upwards • upwards • downwards • at the side • at the side • formain current circuit • for control 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-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	depth	241 mm
backwards upwards upwards downwards at the side s mm weight without packaging Connections/ Terminals type of electrical connection for main current circuit	required spacing with side-by-side mounting	
 upwards downwards at the side 5 mm weight without packaging 61 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit screw-type terminals 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-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	forwards	10 mm
o downwards o at the side o mm weight without packaging Connections/ Terminals type of electrical connection o for main current circuit o for control circuit o for connection bar maximum width of connection bar maximum wire length for thermistor connection o with conductor cross-section = 0.5 mm² maximum o with conductor cross-section = 1.5 mm² maximum o with conductor cross-section = 2.5 mm² maximum o with conductor cross-section = 2.5 mm² maximum o with conductor cross-sections o for DIN cable lug for main contacts stranded o for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	backwards	0 mm
 at the side weight without packaging 61 kg Connections/ Terminals type of electrical connection for main current circuit for control circuit screw-type terminals 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 type of connectable conductor cross-sections type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	•	100 mm
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 • with conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections		
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 • with conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections		
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 • with conductor cross-section = 2.5 mm² maximum • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections		61 kg
 for main current circuit for control circuit screw-type terminals 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 type of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 		
 ◆ 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 150 m ♦ with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections ♦ for DIN cable lug for main contacts stranded ♦ for DIN cable lug for main contacts finely stranded 2x (50 240 mm²) type of connectable conductor cross-sections 		
width of connection bar maximum 55 mm wire length for thermistor connection 50 m with conductor cross-section = 0.5 mm² maximum 50 m with conductor cross-section = 1.5 mm² maximum 150 m with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (50 240 mm²) ofor DIN cable lug for main contacts finely stranded 2x (70 240 mm²) type of connectable conductor cross-sections 2x (70 240 mm²)		
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 type of connectable conductor cross-sections type of connectable conductor cross-sections		
 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 type of connectable conductor cross-sections 		55 mm
 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 for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	_	50
 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 type of connectable conductor cross-sections 250 m 2x (50 240 mm²) 2x (70 240 mm²)		
type of connectable conductor cross-sections		
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 2x (50 240 mm²) 2x (70 240 mm²)		200 III
◆ for DIN cable lug for main contacts finely stranded 2x (70 240 mm²) type of connectable conductor cross-sections		2v /50 240 mm²)
type of connectable conductor cross-sections		
		۲۸ (۱۰ ۲ ۹ ۰ ۱۱۱۱۱۱)
		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)

 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	4 (00 40) 0 (00 44)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	20 35 N·m
for auxiliary and control contacts with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	177 310 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
anning operation	above
 during storage and transport 	-40 +80 °C
environmental category	
during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus RTO Modbus TCP	Yes
PROFIBUS	Yes
	165
UL/CSA ratings	
manufacturer's article number	
of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class J / L, max. 3000 A; Iq = 85 kA
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 3000 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 3000 A; Iq = 85 kA
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 3000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	400 hp
• at 220/230 V at 50 °C rated value	450 hp
 at 460/480 V at 50 °C rated value 	1 000 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	700 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	850 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	1 700 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00
electromagnetic compatibility	acc. to IEC 60947-4-2
	400. 10 120 000 11 12
ATEX	430. 10 120 300 11 1 2

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 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.0000005 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping

other





Type Test Certificates/Test Report





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=3RW5558-6HA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5558-6HA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5558-6HA14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

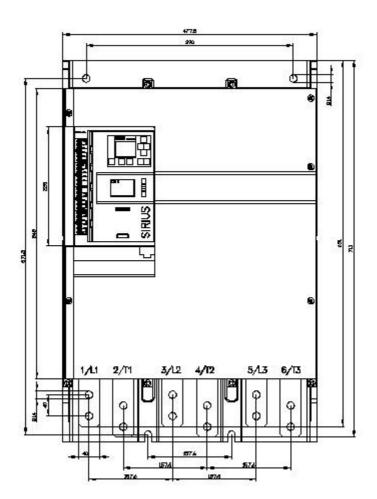
https://support.industry.siemens.com/cs/ww/en/ps/3RW5558-6HA14/char

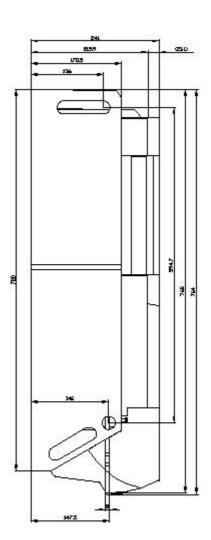
Characteristic: Installation altitude

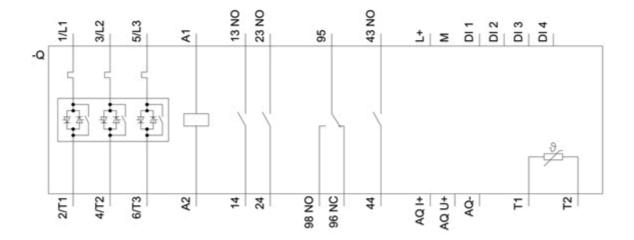
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5558-6HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified: 3/9/2021 🖸