SIEMENS

Data sheet

3RW5513-1HA14



SIRIUS soft starter 200-480 V 13 A, 110-250 V AC Screw terminals

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW55		
manufacturer's article number			
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>		
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>		
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>		
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>		
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>		
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>		
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>		
 of circuit breaker usable at 400 V 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 18 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 	<u>3NE1815-0; Type of coordination 2, Iq = 65 kA</u>		
of back-up R fuse link for semiconductor protection	3NE8017-1 Type of coordination 2 Ig = 65 kA		

\bullet of back-up R fuse link for semiconductor protection usable up to 690 V

3NE8017-1; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%]	20 100 %		
stopping voltage [%]	50 %; non-adjustable		
start-up ramp time of soft starter	0 360 s		
ramp-down time of soft starter	0 360 s		
start torque [%]	10 100 %		
stopping torque [%]	10 100 %		
torque limitation [%]	20 200 %		
current limiting value [%] adjustable	125 800 %		
breakaway voltage [%] adjustable	40 100 %		
breakaway time adjustable	0 2 s		
number of parameter sets	3		
accuracy class	5 (based on IEC 61557-12)		
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 %			
buffering time in the event of power failure	IO 00 /0			
for main current circuit	100 ms			
for control circuit	100 ms			
idle time adjustable	0 255 s			
insulation voltage rated value	0 255 S 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 protective separation				
between main and auxiliary circuit	480 V; does not apply for thermistor connection			
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting			
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz			
recovery time after overload trip adjustable	60 1 800 s			
utilization category according to IEC 60947-4-2	AC 53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	02/15/2018			
product function				
ramp-up (soft starting)	Yes			
 ramp-down (soft stop) 	Yes			
breakaway pulse	Yes			
adjustable current limitation	Yes			
 creep speed in both directions of rotation 	Yes			
pump ramp down	Yes			
DC braking	Yes			
motor heating	Yes			
slave pointer function	Yes			
trace function	Yes			
intrinsic device protection	Yes			
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / 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			
 operating measured value display 	Yes			
• event list	Yes			
error logbook	Yes			
• via software parameterizable	Yes			
• via software configurable	Yes			
screw terminal	Yes			
 spring-loaded terminal 	No			
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			
combined braking	Yes			
 analog output 	Yes; 4 20 mA (default) / 0 10 V			
 programmable control inputs/outputs 	Yes			
 condition monitoring 	Yes			

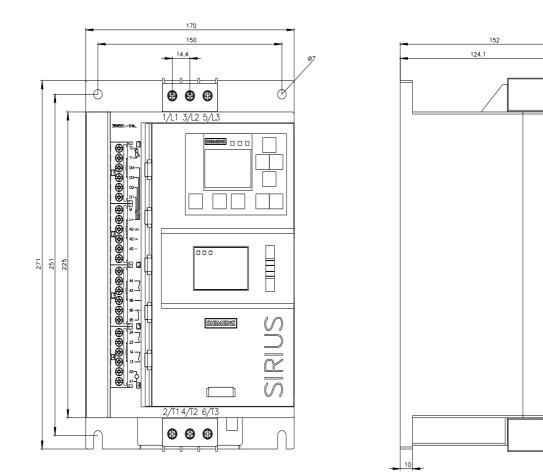
 automatic parameterisation 	Yes			
 application wizards 	Yes			
 alternative run-down 	Yes			
 emergency operation mode 	Yes			
 reversing operation 	Yes			
 soft starting at heavy starting conditions 	Yes			
Power Electronics				
operational current				
 at 40 °C rated value 	13 A			
 at 40 °C rated value minimum 	2.5 A			
• at 50 °C rated value	11.5 A			
• at 60 °C rated value	10.5 A			
operational current at inside-delta circuit				
• at 40 °C rated value	22.5 A			
• at 50 °C rated value	19.9 A			
• at 60 °C rated value	18.2 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 inside-delta circuit	-15 %			
relative positive tolerance of the operating voltage at inside-delta circuit	10 %			
operating power for 3-phase motors				
 at 230 V at 40 °C rated value 	3 kW			
• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW			
• at 400 V at 40 °C rated value	5.5 kW			
 at 400 V at inside-delta circuit at 40 °C rated value 	11 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	4 W			
• at 50 °C after startup	3 W			
• at 60 °C after startup	3 W			
power loss [W] at AC at current limitation 350 %				
• at 40 °C during startup	198 W			
● at 50 °C during startup	166 W			
• at 60 °C during startup	148 W			
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz	110 250 V			
• at 60 Hz	110 250 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage frequency	-10 %			
relative positive tolerance of the control supply voltage frequency	10 %			
control supply current in standby mode rated value	100 mA			

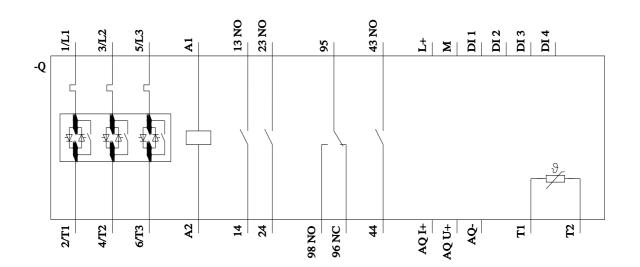
holding current in bypass operation rated value	 165 mA		
inrush current by closing the bypass contacts maximum	0.2 A		
inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum	43 A		
duration of inrush current peak at application of control supply voltage	1.6 ms		
design of the overvoltage protection	Varistor		
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply		
Inputs/ Outputs			
number of digital inputs	4		
parameterizable	4		
 number of digital outputs 	4		
 number of digital outputs parameterizable 	3		
number of digital outputs not parameterizable	1		
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)		
number of analog outputs	1		
switching capacity current of the relay outputs			
• at AC-15 at 250 V rated value	3 A		
• at DC-13 at 24 V rated value	1 A		
Installation/ mounting/ dimensions			
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)		
fastening method	screw fixing		
height	275 mm		
width			
depth	152 mm		
required spacing with side-by-side mounting			
forwards	10 mm		
backwards	0 mm		
• upwards	100 mm		
downwards	75 mm		
at the side	5 mm		
weight without packaging	2.3 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for control circuit			
	screw-type terminals		
wire length for thermistor connection			
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 	50 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum 	50 m 150 m		
 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 	50 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections 	50 m 150 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts 	50 m 150 m 250 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid 	50 m 150 m 250 m 2x (1.0 2.5 mm²), 2x (2.5 10 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 type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for AWG cables for main current circuit solid 	50 m 150 m 250 m 2x (1.0 2.5 mm²), 2x (2.5 10 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 type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for connectable conductor cross-sections for control circuit solid 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for AWG cables for control circuit solid 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for connectable conductor cross-sections for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for AWG cables for control circuit solid wire length 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit solid for control circuit solid wire length between soft starter and motor maximum 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for connectable conductor cross-sections for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit solid wire length 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14)		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit solid for control circuit solid wire length between soft starter and motor maximum 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m 1 000 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid wire length between soft starter and motor maximum at the digital inputs at DC maximum 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts – solid – finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid type of connectable conductor cross-sections for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid to control circuit solid for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid wire length between soft starter and motor maximum 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 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m 1 000 m 2 2.5 N·m		
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit solid between soft starter and motor maximum at the digital inputs at DC maximum if of main contacts with screw-type terminals for auxiliary and control contacts with screw-type 	50 m 150 m 250 m 2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (16 12), 2x (14 8) 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 1x (20 12), 2x (20 14) 800 m 1 000 m 2 2.5 N·m		

Ambient conditions 6000 Resting some set and y and maximum Installation althods and the legist above sets level maximum 6000 Resting some sets above sets level maximum Installation althods and the legist above sets level maximum 6000 Resting some sets above sets level maximum Institution operation	terminals			
ambient temperature e. during contails e. during temperatures e. during temperature e. d				
• during spectation 25	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
	ambient temperature			
environment category during operation according to IEC 60721 during apprent according to IEC 60721 during apprent according to IEC 60721 during apprent apprent according to IEC 60721 during apprent app	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
 during speration according to IEC 60721 during tamport according to IEC 60721 during tamport according to IEC 60721 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 during tamport according to IEC 60721 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 during tamport according to IEC 60721 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 during tamport according to IEC 60721 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 during tamport according to IEC 60721 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand must not get in the devices), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand the device), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand the device), 143 tK0 (only occasional condensation), 102 (no salt mist), 152 (sand the device), 143 temes type: 3FV2742, max, 40 A or 3VA51, max, 40 A (g = 5KA 51 (sand condensation), 102 (sand condensation	during storage and transport	-40 +80 °C		
 eluring storage according to IEC 60721 (uring storage according to IEC 60721 (eluring transport according to IEC 60721 242, 22, 25, 32, 242, 20, 28, 342, 20, 20, 30, 30, 30, 30, 30, 30, 30, 30, 30, 3	environmental category			
Inside the devices), 1144 Inside the devices), 1144 • during transport according to EC: 60721 242, 227, 281, 248, 246, and, 146 (kipit) 0.3 m) EMC amitted interference ec: to EC: 60947-4.2; Class B on request Communication Protocol Yes • PROFINET standard Yes • PROFINET is the supported Yes • PROFINET standard Yes • Modus TCP				
EMC multial interference acc. to IEC 60947-4-2. Class B on request Communication Protocol • Communication Protocol • • PROFINET standard Yes • RPOFINET high-faiture Yes • Ethenkel/P Yes • Modbus TCP Yes • Modbus TCP Yes • Modbus TCP Yes • usable for Standard Faults at 460/480 V according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA • usable for High Faults at 460/480 V according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; lq max = 65 kA • usable for High Faults at 460/480 V at inside-delta cricuit according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; lq max = 65 kA • usable for Standard Faults at 575/600 V at inside-delta cricuit according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; lq max = 65 kA • or the fuse - usable for Standard Faults at 575/600 V at inside-delta cricuit according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA • or the fuse - usable for Standard Faults at 575/600 V at inside-delta cricuit according to UL Stemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; lq max = 65 kA • or usable for Standard Faults at 1575/600 V at inside-delta cricuit according to UL <td> during storage according to IEC 60721 </td> <td></td>	 during storage according to IEC 60721 			
Communication module is supported PROFINET tandard Yes • PROFINET isolator Yes • PROFINET isolator Yes • Etherkel/P Yes • Modous RTU Yes • PROFINET standard Yes • Modous RTU Yes • Modous RTU Yes • Modous RTU Yes • PROFINET standard Yes • PROFINET standard Yes • PROFINET standard Faults at 460/480 V according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 40 A if yet as A table for High Faults at 460/480 V at inside detta crcuit according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 30 A if yet as A table for High Faults at 575/600 V according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 30 A, if yet as A table for High Faults at 575/600 V according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 30 A, if yet as A table for High Faults at 575/600 V according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 30 A, if yet as A table for High Faults at 575/600 V according to UL Stemens type: 3RV2742, max. 40 A or 3VAS1, max. 30 A, if yet as A table for High Faults at table for Stendard Faults at 575/600 V according to UL Type: Class RK5 / K5, max. 50 A; if g = 100 kA • u sable for Stendard Faults at mode-detta circuit up to 575/600 V according to UL Type: Class RK5 / K5, max. 50 A; if g = 100 kA	 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
communication module is supported PROFINET standard Yes PROFINET standard Yes PROFINET standard Yes • Recorring to there with the standard of	EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request		
• PROFINET standardYes• PROFINET standardYes• ElberkHarlpYes• Moduls RTUYes• Moduls TOPYes• Moduls TOPYes• PROFIBUSYes UUCSA-ratings Yes UUCSA-ratings Uucsalie for Standard Faults at 460/480 V according to UL• of circuit breakerSiemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A: Iq = 5 KA• of circuit breakerSiemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A: Iq = 5 KA• usable for High Faults at 460/480 V at inside-detta circuit according to ULSiemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A: Iq = 5 KA• usable for High Faults at 460/480 V at inside-detta circuit according to ULSiemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A: Iq = 5 KA• usable for High Faults at 575600 V at inside-detta circuit according to ULSiemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A: Iq = 5 KA• of the fue • usable for High Faults at 575600 V at inside-detta circuit according to ULSiemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA• of the fue • usable for Standard Faults at 575600 V at inside-detta circuit according to ULType: Class RK5 / K5, max. 50 A; Iq = 5 kA• of the fue • usable for Standard Faults at 575600 V at caccriting to ULType: Class RK5 / K5, max. 50 A; Iq = 5 kA• of the fue • 1 at 200208 V at 50 °C rated value7 type: Class RK5 / K5, max. 50 A; Iq = 5 kA• 1 at 200208 V at 50 °C rated value7.5 hp• 1 at 200208 V at 50 °C rated value7.5 hp• 1 at 200208 V at 50 °C rated value7.5 hp• 1 at 200208	Communication/ Protocol			
PROFINET high-feature Yes Modus RTU Yes Modus RTU Yes Modus RTU Yes Modus TCP Yes Yes	communication module is supported			
Etherhead/P Ves Modous RTU Yes Modous TCP Yes PROFIBUS Yes Ves Ves	PROFINET standard	Yes		
Modbus RTU Modbus TCP Yes Yes PROFINUS Yes Yes	 PROFINET high-feature 	Yes		
Modbus TCP Yes	0	Yes		
Modbus TCP Yes				
PROFIBUS Ves UUCSA ratings UUCSA ratings UUCSA ratings UUCSA ratings UUCSA ratings Ves UUCSA ratings Ves Ves				
ULICSA ratings manufacturer's article number • of circuit broaker				
manufacturer's article number • of circuit breaker				
	- usable for Standard Faults at 460/480 V according	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA		
		Siemens type: 3RV2742 max 30 A or 3VA51 max 35 A Ig max = 65 kA		
	— usable for Standard Faults at 460/480 V at inside-			
to UL	5	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA		
circuit according to UL — usable for Standard Faults at 575/600 V at inside- delta circuit according to UL Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA • of the fuse — usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 50 A; lq = 5 kA — usable for High Faults up to 575/600 V according to UL Type: Class RK5 / K5, max. 50 A; lq = 100 kA — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class RK5 / K5, max. 50 A; lq = 100 kA — usable for High Faults at inside-delta circuit up to 575/600 V according to UL Type: Class J / L, max. 50 A; lq = 100 kA • at 200/208 V at 50 °C rated value 2 hp • at 200/208 V at 50 °C rated value 3 hp • at 200/208 V at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 10 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data IP20 protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	•	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA		
delta circuit according to UL. Type: Class RK5 / K5, max. 50 A; lq = 5 kA		Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA		
		Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA		
according to UL				
UL		Type: Class RK5 / K5, max. 50 A; lq = 5 kA		
to 575/600 V according to UL Type: Class J / L, max. 50 A; lq = 100 kA operating power [hp] for 3-phase motors 2 hp • at 200/208 V at 50 °C rated value 2 hp • at 200/208 V at 50 °C rated value 3 hp • at 200/208 V at 50 °C rated value 5 hp • at 200/208 V at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 200/208 V at inside-delta circuit at 50 °C rated value 5 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 5 hp • at 460/480 V at inside-delta circuit at 50 °C rated value 10 hp contact rating of auxiliary contacts according to UL R300-B300 Safety related data IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Yes • IECEx Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X	UL			
575/600 V according to ULAn an	to 575/600 V according to UL			
• at 200/208 V at 50 °C rated value2 hp• at 220/230 V at 50 °C rated value3 hp• at 460/480 V at 50 °C rated value7.5 hp• at 200/208 V at inside-delta circuit at 50 °C rated value5 hp• at 220/230 V at inside-delta circuit at 50 °C rated value5 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at 200/200 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at 200/200 V at inside-delta circuit at 50 °C rated value10 hp• at 202/230 V at 200/200	575/600 V according to UL	Type: Class J / L, max. 50 A; Iq = 100 KA		
• at 220/230 V at 50 °C rated value3 hp• at 460/480 V at 50 °C rated value7.5 hp• at 200/208 V at inside-delta circuit at 50 °C rated value5 hp• at 220/230 V at inside-delta circuit at 50 °C rated value5 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hp• at 60/480 V at inside-delta circuit at 50 °C rated value10 hp• according of atxiliary contacts according to IEC 60529Inger-safe, for vertical contact from the front• according to function on the front according to IEC 60529Inger-safe, for vertical contact from the front• according to function of the front according to IEC 60529Inger-safe, for vertical contact from the front• ATEX• ATEXYes• ATEXYes• IECExYes• according to ATEX directive 2014/34/EUBVS 18 ATEX F 003 X		2 bp		
• at 460/480 V at 50 °C rated value7.5 hp• at 200/208 V at inside-delta circuit at 50 °C rated value5 hp• at 220/230 V at inside-delta circuit at 50 °C rated value5 hp• at 460/480 V at inside-delta circuit at 50 °C rated value10 hpcontact rating of auxiliary contacts according to ULR300-B300Safety related dataprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontelectromagnetic compatibilityacc. to IEC 60947-4-2ATEXYes• ATEXYes• IECExYes• according to ATEX directive 2014/34/EUBVS 18 ATEX F 003 X				
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• at 460/480 V at inside-delta circuit at 50 °C rated value10 hpcontact rating of auxiliary contacts according to ULR300-B300Safety related dataIP20protection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontelectromagnetic compatibilityacc. to IEC 60947-4-2ATEXYes• ATEXYes• IECExYes• according to ATEX directive 2014/34/EUBVS 18 ATEX F 003 X				
contact rating of auxiliary contacts according to UL R300-B300 Safety related data				
Safety related data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X				
protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X		K300-B300		
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front electromagnetic compatibility acc. to IEC 60947-4-2 ATEX Certificate of suitability • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X				
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ATEX certificate of suitability • ATEX • ATEX • IECEx • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X		-		
certificate of suitability Yes • ATEX Yes • IECEx Yes • according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X		acc. to IEC 60947-4-2		
ATEX Yes IECEx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X	ATEX			
ECEx Yes according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X	certificate of suitability			
• according to ATEX directive 2014/34/EU BVS 18 ATEX F 003 X	• ATEX	Yes		
· · · · · · · · · · · · · · · · · · ·	• IECEx	Yes		
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)	 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)		

			-	b Mb]		
hardware fault tolerance according to IEC 61508 relating to ATEX		0				
PFDavg with low demand rate according to IEC 61508 relating to ATEX		0.008	3			
PFHD with high demand to ATEX	d rate according to E	N 62061 relating	5E-7	1/h		
Safety Integrity Level (S to ATEX	Safety Integrity Level (SIL) according to IEC 61508 relating					
T1 value for proof test i IEC 61508 relating to A		e according to	3 a			
ertificates/ approvals						
General Product Appro	val					EMC
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For use in hazardous lo	ocations	Declaration of formity	Con-	Test Certificates	Marine / Shipping	
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