## SIEMENS

## Data sheet

## 3RW5545-2HA04



SIRIUS soft starter 200-480 V 315 A, 24 V AC/DC spring-type terminals

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW55			
manufacturer's article number				
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>			
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>			
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>			
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>			
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>			
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>			
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>			
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0: Type of coordination 1. lq = 65 kA, CLASS 10			
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1334-2: Type of coordination 2, Iq = 65 kA</u>			
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 morking	Vaa				
• CE marking	Yes				
UL approval	Yes				
CSA approval	Yes				
product component					
• HMI-High Feature	Yes				
is supported HMI-High Feature	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	3				
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2				
current unbalance limiting value [%]	10 60 %				
ground-fault monitoring limiting value [%]	10 95 %				
recovery time after overload trip adjustable	60 1 800 s				
buffering time in the event of power failure	100				
for main current circuit	100 ms				
for control circuit	100 ms				
idle time adjustable	0 255 s				
insulation voltage rated value	480 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 400 V				
service factor	1.15				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation					
between main and auxiliary circuit	480 V; does not apply for thermistor connection				
utilization category acc. to IEC 60947-4-2	AC 53a				
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting				
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz				
reference code acc. to IEC 81346-2	Q				
Substance Prohibitance (Date)	15.02.2018 00:00:00				
product function					
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes				
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes				
<ul> <li>breakaway pulse</li> </ul>	Yes				
<ul> <li>adjustable current limitation</li> </ul>	Yes				
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes				
<ul> <li>pump ramp down</li> </ul>	Yes				
DC braking	Yes				
<ul> <li>motor heating</li> </ul>	Yes				
<ul> <li>slave pointer function</li> </ul>	Yes				
<ul> <li>trace function</li> </ul>	Yes				
<ul> <li>intrinsic device protection</li> </ul>	Yes				
<ul> <li>motor overload protection</li> </ul>	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.				
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick				
inside-delta circuit	Yes				
● auto-RESET	Yes				
manual RESET	Yes				
remote reset	Yes				
communication function	Yes				
<ul> <li>operating measured value display</li> </ul>	Yes				
• event list	Yes				
• error logbook	Yes				
via software parameterizable	Yes				
via software configurable	Yes				
screw terminal	No				
spring-type terminal	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-				
- FICH IEIIEI'BY	res, in connection with the FICOTINET Standard and FROFINET 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				
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes				
<ul> <li>condition monitoring</li> </ul>	Yes				
automatic parameterisation	Yes				
application wizards	Yes				
alternative run-down	Yes				
<ul> <li>emergency operation mode</li> </ul>	Yes				
<ul> <li>reversing operation</li> </ul>	Yes				
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes				
Power Electronics					
operational current					
• at 40 °C rated value	315 A				
<ul> <li>at 40 °C rated value minimum</li> </ul>	63 A				
• at 50 °C rated value	279 A				
• at 60 °C rated value	255 A				
operational current at inside-delta circuit					
• at 40 °C rated value	546 A				
• at 50 °C rated value	483 A				
• at 60 °C rated value	442 A				
operating voltage					
rated value	200 480 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 relative negative tolerance of the operating voltage at	10 % -15 %				
inside-delta circuit	-15 70				
relative positive tolerance of the operating voltage at inside-delta circuit	10 %				
operating power for 3-phase motors					
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	90 kW				
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	160 kW				
• at 400 V at 40 °C rated value	160 kW				
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>					
	315 kW				
Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value	50 Hz 60 Hz				
Operating frequency 2 rated value relative negative tolerance of the operating frequency	50 Hz 60 Hz -10 %				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	50 Hz 60 Hz -10 % 10 %				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%]	50 Hz 60 Hz -10 %				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup	50 Hz 60 Hz -10 % 10 % Relative to set le 95 W 84 W				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 60 °C after startup         • at 60 °C after startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup	50 Hz 60 Hz -10 % 10 % Relative to set le 95 W 84 W				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W				
Operating frequency 2 rated valuerelative negative tolerance of the operating frequencyrelative positive tolerance of the operating frequencyminimum load [%]power loss [W] for rated value of the current at AC• at 40 °C after startup• at 50 °C after startup• at 60 °C after startup• at 60 °C after startup• at 40 °C during startup• at 40 °C during startup• at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W				
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 60 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 60 °C during startup         • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 60 °C differ startup         • at 60 °C during startup         • at 50 °C during startup         • at 60 °C during startup	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 60 °C duri	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor AC/DC				
Operating frequency 2 rated value         relative negative tolerance of the operating frequency         relative positive tolerance of the operating frequency         minimum load [%]         power loss [W] for rated value of the current at AC         • at 40 °C after startup         • at 50 °C after startup         • at 60 °C after startup         • at 40 °C during startup         • at 40 °C during startup         • at 50 °C during startup         • at 60 °C during startup         • at 50 °C during startup         type of the motor protection         Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value	50 Hz 60 Hz -10 % 10 % 10 %; Relative to set le 95 W 84 W 77 W 4 966 W 4 153 W 3 646 W Electronic, tripping in the event of thermal overload of the motor AC/DC 24 V				

voltage at AC at 50 Hz	
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	720 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
<ul> <li>number of digital outputs</li> </ul>	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting • forwards	10 mm
backwards	0 mm
upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	10.2 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	

• with conductor gross-sections         15 mm <sup>m</sup> maximum         250 m           • for DN cable lug for main contacts finally standed         24 (50 240 mm <sup>m</sup> )         25 (50 240 mm <sup>m</sup> )           • for DN cable lug for main contacts finally standed         24 (50 240 mm <sup>m</sup> )         27 (50 240 mm <sup>m</sup> )           • for control circuit shild         24 (50 240 mm <sup>m</sup> )         27 (50 240 mm <sup>m</sup> )           • for control circuit shild         24 (70 240 mm <sup>m</sup> )         27 (70 240 mm <sup>m</sup> )           • for control circuit finally standed with core end processing         27 (22 1.5 mm <sup>m</sup> )         27 (22 1.5 mm <sup>m</sup> )           • of ro control circuit finally standed with core end processing         27 (24 16)         27 (24 16)           • of walling inpols at DC maximum         1000 m         1000 m           • for main controlace with screw-type         14 24 Nm         0.8 12 Nm           • for main controlace with screw-type         14 24 Nm         0.8 12 Nm           • for main controlace with screw-type         124 210 bt/in         7 10.3 bt/in           • for auxiliary and control contacts with screw-type         124 210 bt/in         7 10.3 bt/in           • for main contacts with screw-type         124 210 bt/in         7 10.3 bt/in           • for main contacts with screw-type         124 210 bt/in         7 400 °C						
• with conductor cross-sections         250 m           if or DN cable lug for main contacts stranded         2x (50 240 mm²)           • for DN cable lug for main contacts stranded         2x (70 240 mm²)           • for control circuit solid         2x (0.25 15 mm²)           • for control circuit solid         2x (0.25 15 mm²)           • at AWG cables for control circuit finely stranded with core end processing         2x (2.4 16)           • at AWG cables for control circuit finely stranded with core end processing         2x (2.4 16)           • at AWG cables for control circuit solid         2x (2.4 16)           • at MWG cables for control circuit solid         2x (2.4 16)           • for auxility and control contacts with screw-type terminals         100 m           • for auxility and control contacts with screw-type terminals         14 24 N m           • for auxility and control contacts with screw-type terminals         5000 m; Derating as of 1000 m, see catalog           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation acc, to IEC 60721         9K (no tee formation, only occasional condensation), 3C3 (no salt mas), 3S3 (sant must not get into the devices), 1M6           • during transport acc, to IEC 60721         9K (no tee formation, only occasional condensation), 1C3 (no salt mas), 3S3 (sant must not get into the devices), 1M6           • duri	<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m				
Type of connectable conductor cross-sections         2x (50 240 mm <sup>2</sup> )           • for DN cable lug for main contacts finely stranded         2x (50 240 mm <sup>2</sup> )           • for control circuit finely stranded with core end processing         2x (0.2 1.5 mm <sup>2</sup> )           • at AWG cables for control circuit finely stranded with core end processing         2x (0.2 1.5 mm <sup>2</sup> )           • at AWG cables for control circuit finely stranded with core end processing         2x (24 16)           • at AWG cables for control circuit finely stranded with core end processing         900 m           • at the digit inputs at DC maximum         800 m           • of runk contacts with screw-type terminals         14 24 M m           • for auxiliary and control contacts with screw-type terminals         14 210 Ibrin           • for auxiliary and control contacts with screw-type terminals         124 210 Ibrin           • for auxiliary and control contacts with screw-type terminals         124 210 Ibrin           • for auxiliary and control contacts with screw-type terminals         124 210 Ibrin           • for uning contacts with screw-type terminals         124 40 °C; Please observe derating at temperatures of 40 °C or above           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during strage and transport         -7 +60 °C; Please observe derating at temperatures of 40 °C or above <t< td=""><td></td><td colspan="4"></td></t<>						
• for DIN cable lug for main contacts financed       2x (50240 mm?)         • for control circuit sold       2x (70240 mm?)         • for control circuit sold       2x (70240 mm?)         • for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at XMS cables for control circuit sold       2x (70240 mm?)         • at the digital inputs at DC maximum       1000 m         • for auxiliary and control contacts with screw-type terminals       0.812 N m         • for auxiliary and control contacts with screw-type terminals       0.812 N m         • for auxiliary and control contacts with screw-type terminals       0.0	<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m				
• for DN cable Lig or main contacts finely stranded         2x (70240 mm <sup>2</sup> )           Vpc of connectable conductor cross-sections         • for control circuit mely stranded with core and processing           • for control circuit mely stranded with core and processing         2x (72.515 mm <sup>2</sup> )           • at AWG cables for control circuit mely stranded with core and processing         2x (72.515 mm <sup>2</sup> )           • at AWG cables for control circuit mely stranded with core and processing         2x (72.515 mm <sup>2</sup> )           • at AWG cables for control circuit shell stranded with core and processing         2x (72.515 mm <sup>2</sup> )           • at WG cables for control circuit shell stranded with core and processing         2x (72.515 mm <sup>2</sup> )           • at the digit lipbits at DC maximum         500 m           • for main contacts with screek-type terminals         612 N m           • for main contacts with screek-type terminals         1424 N m           • for main contacts with screek-type terminals         5.000 m; Dereting as of 1000 m; see catalog           Installation atfluide at height above see level maximum         25 +60 °C; Please observe derating at temperatures of 40 °C or about the devices; MM           • during sporation acc. to IEC 60721         3K6 (no lee formation, only occasional condensation), 3C3 (no satt mist), 52 (sand must not get insole the devices; MM           • during sporage ac, to IEC 60721         3K6 (no lee formation, only occasined condensation), 3C3 (no satt mist), 52 (sand must	type of connectable conductor cross-sections					
Type of connectable conductor cross-sections         2x (0.251.5 mm²)           • for control circuit solid         2x (0.251.5 mm²)           • at XMG cables for control circuit solid         2x (0.251.5 mm²)           • at XMG cables for control circuit solid         2x (0.251.5 mm²)           • at XMG cables for control circuit solid         2x (2.416)           • at XMG cables for control circuit solid         2x (2.416)           • at the digital inputs at DC maximum         600 m           • the digital inputs at DC maximum         1000 m           • for main contacts with screw-type terminals         1424 N m           • for main contacts with screw-type terminals         124210 lbf:in           • for auxiliary and control contacts with screw-type terminals         5600 m; Dearating as of 1000 m, see catalog           ambient tomporature         -40480 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40480 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40480 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40480 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40480 °C; Please observe derating at temperatures of 40 °C or above           •	<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)				
a for control circuit solid       2x (0.251.5 mm²)         i at AWG cables for control circuit finely stranded with core and processing       2x (0.251.5 mm²)         i at AWG cables for control circuit finely stranded with core and processing       2x (2416)         i at AWG cables for control circuit finely stranded with core and processing       2x (2416)         i at AWG cables for control circuit finely stranded with core and processing       2x (2416)         i at AWG cables for control circuit finely stranded with core and processing       2x (2416)         i at AWG cables for control circuit finely stranded with core and processing       2x (2416)         i at the digit inplus at Control circuit finely stranded with core and processing       2x (2416)         i at the digit inplus at Control circuit finely stranded with core and motor maximum       800 m         i at the digit inplus at Control circuit swith screw-type terminals       1424 k·m         i for main contacts with screw-type terminals       124210 lbf-lin         i for main contacts with screw-type terminals       5.000 m; Derating as of 1000 m, see catalog         installation atitude at height above sea level maximum       5.000 m; Derating as of 1000 m, see catalog         ambient temperature       -25+60 °C; Please observe derating at temperatures of 40 °C or above         • during storage acc. to IEC 60721       3K6 (no te formation, on/p occasional condensation), 3C3 (no saft mab),	<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>					
• for control circuit finely standed with core end processing         2x (0.25 1.5 mm²)           • at AWG cables for control circuit finely standed with core end processing         2x (24 16)           • at AWG cables for control circuit finely standed with core end processing         2x (24 16)           • at the digital inputs at DC maximum         800 m           • at the digital inputs at DC maximum         800 m           • the tween soft starter and motor maximum         800 m           • the tween soft starter and motor maximum         800 m           • the digital inputs at DC maximum         1000 m           • for main contacts with screw-type terminals         14 24 N-m           • for auxilary and control contacts with screw-type terminals         124 210 lbfin           • for auxilary and control contacts with screw-type terminals         5000 m; Derating as of 1000 m, see catalog           • athing storage and transport         -40 40° °C. Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40 40° °C.           • during storage act. to IEC 60721         3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M4           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)           • EMC emitted interference         2co to IEC 60474-2: Class A	type of connectable conductor cross-sections					
processing       ar AWG cables for control circuit finely stranded with core end processing       2x (24 16)         at AWG cables for control circuit finely stranded with core end processing       3x (24 16)         wire length       800 m         • ot well all inputs at Comsimum       800 m         • ot main contacts with screw-type terminals       14 24 N-m         • for main contacts with screw-type terminals       14 24 N-m         • for main contacts with screw-type terminals       124 210 IbF in         • for main control control contacts with screw-type terminals       124 210 IbF in         • for main control control contacts with screw-type terminals       124 210 IbF in         • for main control control contacts with screw-type terminals       5000 m; Derating as of 1000 m, see catalog         installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       -40 +80 °C         • during operation acc. to IEC 60721       3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indic the devices), 3M6         • during storage acc. to IEC 60721       3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indic the devices), 3M6         • during storage acc. to IEC 60721       3K6 (no tee formation, only occasional condensation), 3C3 (no salt miss), 322 (and must not get indide the devices), 3	<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)				
	<ul> <li>for control circuit finely stranded with core end</li> </ul>	2x (0.25 1.5 mm²)				
	processing					
core end processing     800 m       • between soft starter and motor maximum     800 m       • at the digital inputs at DC maximum     1000 m       • for main contacts with screw-type terminals     14 24 N·m       • for raixiliary and control contacts with screw-type terminals     14 24 N·m       • for raixiliary and control contacts with screw-type terminals     14 210 lbf-in       • for raixiliary and control contacts with screw-type terminals     7 10.3 lbf-in       • for auxiliary and control contacts with screw-type terminals     5.000 m; Deraling as of 1000 m, see catalog       ambient temperature     - 40 +80 °C       • during storage and transport     - 40 +80 °C       • during storage and transport     - 40 +80 °C       • during storage and transport     - 40 +80 °C       • during storage and transport     - 40 +80 °C       • during storage and transport     - 40 +80 °C       • during storage act to IEC 60721     2K6 (no tee formation only occasional contensation), 3C3 (no salt mist), 352 (sand must not get insible the devices), 3M6       • during transport act. to IEC 60721     2K2 (221, 251, 242, 202, 251, 251, 242 (max fail height 0.3 m)       • during transport act. to IEC 60721     2K2 (221, 251, 251, 242 (max fail height 0.3 m)       • during transport act. to IEC 60721     2K2 (221, 251, 251, 242 (max fail height 0.3 m)       • export.Protifieut     Yes       • PROFINET h	<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)				
wire length <ul></ul>		2x (24 16)				
• between soft starter and motor maximum     900 m       • at the digital inputs at DC maximum     1000 m       • for main contacts with screw-type terminals     1424 N-m       • for main contacts with screw-type terminals     1424 N-m       • for auxiliary and control contacts with screw-type terminals     124210 lbf in       • for auxiliary and control contacts with screw-type terminals     710.3 lbf in       • for auxiliary and control contacts with screw-type terminals     5.000 m; Derating as of 1000 m, see catalog       • ambient conditions     5.000 m; Derating as of 1000 m, see catalog       • ambient conditions     -25+60 °C; Please observe derating at temperatures of 40 °C or above       • during storage and transport     -40+80 °C       • during storage and transport     -40+80 °C       • during storage and transport     -40+80 °C       • during storage acc: to IEC 60721     2K (no te formation: only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not oge in the devices), 3M0       • during transport acc: to IEC 60721     2K (22,1, 251, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	<b>_</b>					
	-					
tightening torque <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> <li>Anbient conditions         <ul> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during storage and transport</li> <li>during storage and transport</li> <li>during storage and transport</li> <li>during storage act. to IEC 60721</li> <li>during transport act. to IEC 60721</li> </ul> </li> <li>during transport act. to IEC 60721</li> <li>washed for High Faults at 460/480 V at most core act. to IEC 60947.4-2: Class A</li> <li>Communicationt module is</li>						
• for main contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type     • during operation     • during storage acc. to IEC 60721     • during storage acc. to IEC 60721     • during transport acc. to IEC 60721     • during transport acc. to IEC 60721     • ZC1, 2S1, 2M2 (max. fail height 03 m)     acc. to IEC 60721     • ROFINET tandard     • PROFINET standard     • ef of criait breacher     • of of criait breacher     • usable for Standard Faults at 460/480 V a     according to UL     • usable for Standard Faults at 460/480 V a     inside-detta circuit according to UL     • usable for Hig		1 000 m				
terminals       1         tightening torque [lbf in]       • (or main contacts with screw-type terminals       124 210 lbf in         Ambient conditions       7 10.3 lbf in         Ambient conditions       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       - 25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -40 +80 °C         • during operation acc. to IEC 60721       3K6 (no loc formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during transport acc. to IEC 60721       3K6 (no loc formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc to IEC 60921         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc to IEC 60947.4-2: Class A         Communication module is supported       Yes         • PROFINET high-feature       Yes         • Modus TCP       Yes         • Norbus RTU       Yes         • Of circuit breaker       -         - usable for Standard Faults at 460/480 V according to U.       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA       Siemens type: 3VA53, max. 400 A						
tightening torque [Ibf-in] <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> 124 210 lbf-in           Ambient conditions              5.000 m; Derating as of 1000 m, see catalog            installation all tube at height above sea level maximum              5.000 m; Derating as of 1000 m, see catalog            ambient temperature              -turing operation               -25 +60 °C; Please observe derating at temperatures of 40 °C or             above            - during storage and transport              -40 +80 °C               -40 +80 °C            - during storage acc. to IEC 60721              3K6 (no lec formation, only occasional condensation), 3C3 (no salt             mist), 3S2 (sand must not get instide devices), 3M6            - during transport acc. to IEC 60721              2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)            EMC emitted Interference              acc. to IEC 60721            Communication/ Protocol              ves            communication Module is supported               Yes                 PROFINET standard               Yes                 PROFINET standard Faults at 460/480 V             accorofing to UL               Siemens type: 3		0.8 1.2 N·m				
• for main contacts with screw-type terminals         124 210 lbf in           • for auxiliary and control contacts with screw-type terminals         7 10.3 lbf in           Ambient conditions         5 000 m; Derating as of 1000 m, see catalog           installation altitude at height above sea level maximum         5 000 m; Derating as of 1000 m, see catalog           ambient tomperature         • during operation           • during storage and transport         -40 +80 °C           • during storage acr. to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • etherNet/IP         Yes           • PROFINET high-feature         Yes           • PROFINET high-feature         Yes           • PROFINET high-feature         Yes           • PROFINET high-feature         Yes           • Installe at 460/480 V according to UL         Yes           • of circuit breaker         Yes           • usable for Standard Faults at 460/480 V according to UL         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA           • usable for High Faults at 460/480 V at insided-delta circuit according to UL						
• for auxiliary and control contacts with screw-type terminals         7 10.3 lbf in           Anbient conditions         5 000 m; Derating as of 1000 m, see catalog           ambient temperature         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation acc. to IEC 60721         3K6 (no te formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must or get inside the devices), 1M4           • during transport acc. to IEC 60721         3K6 (not ce formation, 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, falt height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, falt height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, falt height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, falt height 0.3 m)           • during transport acc. to IEC 60721         Yes           • PROFINET standard         Yes           • PROFINET standard         Yes           • PROFINET standard         Yes           • Modbus RTU         Yes           • Modbus RTU         Yes           • of circuit breaker         - usable for High Fa		124 210 lbf in				
Ambient conditions         Installation altitude at height above sea level maximum         ambient temperature         • during operation         • during operation         • during storage and transport         • during storage and transport         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • BMC Emitted interference         acc. to IEC 60947-4-2: Class A         Communication module is supported         • PROFINET standard         • PROFINET high-feature         • BrefNetVIP         • Modbus TCP         • PROFIBUS         Wes         • of circuit breaker         usable for Standard Faults at 460/480 V according to UL         usable for Standard Faults at 460/480 V according to UL         usable for Standard Faults at 460/480 V according to UL         usable for Standard Faults at 460/480 V according to UL         usable for Standard Faults						
Anisient conditions         installation allitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       • during operation         • during storage and transport       -40 +80 °C         • during operation acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mish), 3S2 (sand must not get into the devices), 3M6         • during transport acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mish), 1S2 (sand must not get inside the devices), 3M6         • during transport acc. to IEC 60721       2K2, C21, 2S1, 2M2 (max, fall height 0.3 m)         EMC emitted interference       acc. to IEC 60974-4-2: Class A         Communication/ Protocol       acc. to IEC 60974-4-2: Class A         Communication module is supported       • PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Of circuit breaker       Yes         • usable for High Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 KA         VL/CSA rating at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 KA         Siemens type: 3VA54, max. 600 A; Iq max = 65 KA       Siemens		7 10.3 Ibt-in				
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       • during operation         • during storage and transport       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation acc. to IEC 60721         • during storage 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 transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A         Communication module is supported       Yes         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • DictorPlace       Yes         • Insole for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL						
amblent temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         • 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       3K6 (no ice formation, 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)         acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         acc. to IEC 60947-4-2; Class A       Communication Protocol         communication module is supported       Yes         • PROFINET standard       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         siemens type: 3VA54, max. 600 A; Iq = 18 kA       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA54		5 000 m; Dereting as of 1000 m and astalog				
• during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation acc. to IEC 60721         • during storage acc. to IEC 60721       3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 1S2 (sand must not get inside the devices), 3M6         • during transport 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 module is supported       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET standard       Yes         • Ordicult breaker       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         ULCSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 460/480 V at inside-deta circuit according to UL.       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 460/480 V at inside-	<b>_</b>	5 000 m, Deraling as or 1000 m, see calalog				
eduring storage and transport     -40 +80 °C       enviconmental category     -40 +80 °C       enviconmental category     3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6       e during storage acc. to IEC 60721     3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6       e during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A       communication Protocol     Communication Protocol       communication module is supported     Yes       e PROFINET standard     Yes       e PROFINET standard     Yes       e Modbus RTU     Yes       e Modbus RTU     Yes       e Modbus TCP     Yes       e PROFIBUS     Yes       UL/CSA ratings     Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA       according to UL     - usable for Standard Faults at 460/480 V according to UL       - usable for Fligh Faults at 460/480 V at inside-detla circuit according to UL     Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA       inside-deta circuit according to UL     Siemens type: 3VA54, max. 600 A; lq = 18 kA       inside for High Faults at 460/480 V at inside-detla circuit according to UL     Siemens type: 3VA54, max. 600 A; lq = 18 kA       inside of trigh Faults at 4575/600 V at inside-detla circuit according to UL     Siemens ty	•	25 IGO °C: Plages charge denoting at temperatures of 40 °C or				
• during storage and transport       -40 +80 °C         environmental category       • during operation acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Demunication module is supported       • PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • PROFIBUS       Yes         • DROFIBUS       Yes         • PROFIBUS       Yes         • usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA         • usable for Standard Faults at 460/480 V at inside-detta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq = 18 kA         • usable for Standard Faults at 460/480 V at inside-detta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq = 18 kA         • usable for High Faults at 460/480 V at inside-detta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq = 18 kA         • usable for High Faults at 575/60	• during operation					
environmental category <ul> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 6097.4.2. Class A</li> </ul> <li>Communication / Protocol</li> <li>communication module is supported         <ul> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>PROFIBUS</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li></ul></li>	<ul> <li>during storage and transport</li> </ul>					
<ul> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>tK6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6</li> <li>during transport acc. to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>during transport acc. to IEC 60721</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Communication Protocol</li> <li>Communication module is supported         <ul> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> </ul> </li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta</li></ul></li></ul>						
mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721       1K6 (only occasional condensation), 1C2 (no sait 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         • PROFINET standard       Yes         • EtherNet/IP       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         • DrOFIBUS       Yes         • UL/CSA ratings       Yes         UL/CSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 450/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA		3K6 (no ice formation, only occasional condensation), 3C3 (no salt				
• 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 TCP       Yes         • PROFIBUS       Yes <b>ULCSA ratings</b> Yes         ULCSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 KA         • usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 575/600 V according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 575/						
• 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 TCP       Yes         • PROFIBUS       Yes         • DU/CSA ratings       Yes         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at cording to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL	<ul> <li>during storage acc. to IEC 60721</li> </ul>					
EMC emitted interference       acc. to IEC 60947-4-2: Class A         Communication / Protocol         communication module is supported         • PROFINET standard       Yes         • PROFINET standard       Yes         • PROFINET high-feature       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         Siemens type: 3VA54, max. 600 A; lq max = 65 kA       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq max = 65 kA         delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq max = 65 kA </td <td></td> <td colspan="4"></td>						
Communication Protocol         communication module is supported         e PROFINET standard            PROFINET standard       Yes            PROFINET high-feature       Yes            PROFINET high-feature       Yes            EtherNet/IP       Yes            Modbus RTU       Yes            Modbus TCP       Yes            PROFIBUS       Yes            UL/CSA ratings        Yes            UL/CSA ratings        Yes            u sable for Standard Faults at 460/480 V according to UL        Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA            u sable for Standard Faults at 460/480 V at inside-delta circuit according to UL        Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA            u sable for Standard Faults at 460/480 V at inside-delta circuit according to UL        Siemens type: 3VA54, max. 600 A; lq max = 65 kA            u sable for Standard Faults at 575/600 V at inside-delta circuit according to UL        Siemens type: 3VA54, max. 600 A; lq max = 65 kA            u sable for High Faults at 575/600 V at inside-delta circuit according to UL        Siemens type: 3VA54, max. 600 A; lq = 18 kA            u sable for High Faults at 575/600 V at inside-delta circuit according to UL        Siemens t	<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
communication module is supported       Yes         PROFINET standard       Yes         PROFINET high-feature       Yes         PROFINET high-feature       Yes         EtherNet/IP       Yes         Modbus RTU       Yes         Modbus TCP       Yes         PROFIBUS       Yes         UL/CSA ratings       Yes         UL/CSA ratings       Yes         UL/CSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         Mathematical according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA54, max. 600 A; Iq = 18 kA       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V at inside- delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside- delta circuit according to UL       Siemens type: 3VA54, max. 600 A;	EMC emitted interference	acc. to IEC 60947-4-2: Class A				
<ul> <li>PROFINET standard</li> <li>PROFINET high-feature</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>PROFINET high-feature</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings UL/CSA ratings UL/CSA ratings Semens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA <ul> <li>according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Communication/ Protocol					
<ul> <li>PROFINET high-feature</li> <li>Yes</li> <li>EtherNet/IP</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL <ul> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	communication module is supported					
<ul> <li>EtherNet/IP</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA according to UL <ul> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL <ul> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Fautts at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul></li></ul>	<ul> <li>PROFINET standard</li> </ul>	Yes				
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	<ul> <li>PROFINET high-feature</li> </ul>	Yes				
Modbus TCP     Yes     PROFIBUS     Yes  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  Indufacturer's article number     of circuit breaker     - usable for Standard Faults at 460/480 V     according to UL     - usable for Standard Faults at 460/480 V according     to UL     - usable for Standard Faults at 460/480 V at     inside-delta circuit according to UL     - usable for Standard Faults at 460/480 V at     inside-delta circuit according to UL     - usable for Standard Faults at 460/480 V at     inside-delta circuit according to UL     - usable for Standard Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for Standard Faults at 575/600 V     according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for High Faults at 575/600 V at     inside-delta circuit according to UL     - usable for Hi	EtherNet/IP	Yes				
• PROFIBUS       Yes         UL/CSA ratings       Simmufacturer's article number         • of circuit breaker       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA	Modbus RTU	Yes				
• PROFIBUS       Yes         UL/CSA ratings       Simmufacturer's article number         • of circuit breaker       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for Standard Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA         - usable for High Faults at 575/600 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA	Modbus TCP	Yes				
UL/CSA ratings         manufacturer's article number         • of circuit breaker		Yes				
manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> </ul>						
<ul> <li>of circuit breaker <ul> <li>usable for Standard Faults at 460/480 V</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> </ul> </li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> </ul>						
<ul> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for High Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V at coording to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>						
according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA		Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A: Ig = 18 kA				
to ULkA usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA						
— usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq = 18 kA— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA— usable for High Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA	<ul> <li>— usable for High Faults at 460/480 V according</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65				
inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA						
— usable for High Faults at 460/480 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA— usable for Standard Faults at 575/600 V according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; lq max = 65 kA		Siemens type: 3VA54, max. 600 A; Iq = 18 kA				
delta circuit according to ULSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for Standard Faults at 575/600 VSiemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA— usable for High Faults at 575/600 V at inside- delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq max = 65 kA	5	0				
<ul> <li>usable for Standard Faults at 575/600 V</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>usable for High Faults at 575/600 V at inside- delta circuit according to UL</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> </ul>		Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
according to UL — usable for High Faults at 575/600 V at inside- delta circuit according to UL	-	Signaps type: $21/453$ may 400 Å or $21/454$ may 600 Å to = 40 kÅ				
— usable for High Faults at 575/600 V at inside- delta circuit according to UL		Siemens type. 37433, max. 400 A or 37434, max. 600 A; Iq = 18 KA				
delta circuit according to UL	5	Siemens type: $3VA54$ , max 600 A <sup>-</sup> Ig max = 65 kA				
— usable for Standard Faults at 575/600 V at Siemens type: 3VA54 max 600 A: Ig = 18 kA						
	— usable for Standard Faults at 575/600 V at	Siemens type: 3VA54, max. 600 A; Iq = 18 kA				

	ircuit according to UL						
<ul> <li>of the fuse</li> <li>— usable for according to I</li> </ul>	Standard Faults up to	575/600 V	Туре	Type: Class J / L, max. 1000 A; lq = 18 kA			
0	High Faults up to 575/6	600 V	Туре	Type: Class J / L, max. 1000 A; Iq = 100 kA			
— usable for	according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL			: Class J / L, max. 100	00 A; Iq = 18 kA		
— usable for	High Faults at inside-de according to UL		Туре	Type: Class J / L, max. 1000 A; Iq = 100 kA			
operating power [hp	] for 3-phase motors		-				
• at 200/208 V at	50 °C rated value		75 hp	)			
• at 220/230 V at	50 °C rated value		100 h	ıp			
• at 460/480 V at	50 °C rated value		200 h	ip			
● at 200/208 V at value	inside-delta circuit at 5	0 °C rated	150 h	ıp			
• at 220/230 V at value	inside-delta circuit at 5	0 °C rated	200 h	р			
• at 460/480 V at value	inside-delta circuit at 5	0 °C rated	400 h	р			
	kiliary contacts accor	ding to UL	R300	-B300			
Safety related data							
protection class IP of	on the front acc. to IE	C 60529	IP00;	IP20 with cover			
touch protection on	the front acc. to IEC	60529	finger	r-safe, for vertical con	tact from the front with	cover	
electromagnetic con	npatibility		acc. t	o IEC 60947-4-2			
ATEX							
certificate of suitabil	lity						
<ul> <li>ATEX</li> </ul>			Yes				
<ul> <li>IECEx</li> </ul>			Yes				
according to AT	EX directive 2014/34/E	U	BVS	18 ATEX F 003 X			
type of protection ac 2014/34/EU	type of protection according to ATEX directive			II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], 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	0.008				
to ATEX	nand rate acc. to EN 6		0.0000005 1/h				
to ATEX	el (SIL) acc. to IEC 618		SIL1				
IEC 61508 relating to	T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX		3 у				
Certificates/ approvals	S		_		_		
General Product Ap	proval				EMC	For use in hazard- ous locations	
					•		
60	(m)	(m)		COC	ka k	6.7	
	<u>u</u>	ଞ		C M L	<u>w</u>		
CSA	ccc	UL			RCM	ATEX	
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping			
ICCC.	~~	Type Test Ce				Loude	
IECEX	EG-Konf.	<u>ates/Test Re</u>	<u>ייסטד</u>	ABS		Register	
					BUREAU VERITAS		
Marine / Shipping		other					



## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5545-2HA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5545-2HA04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5545-2HA04&lang=en

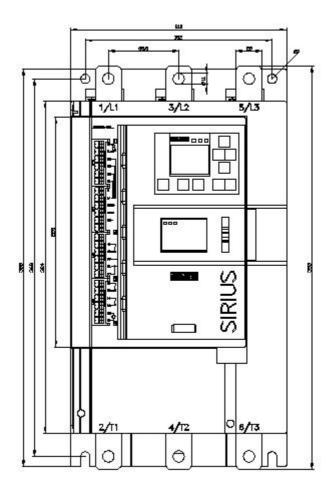
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

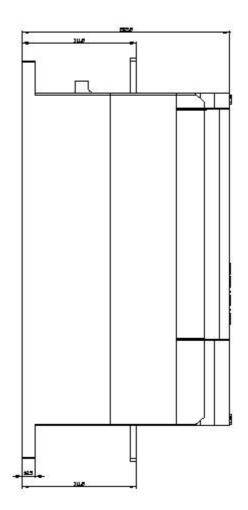
https://support.industry.siemens.com/cs/ww/en/ps/3RW5545-2HA04/char

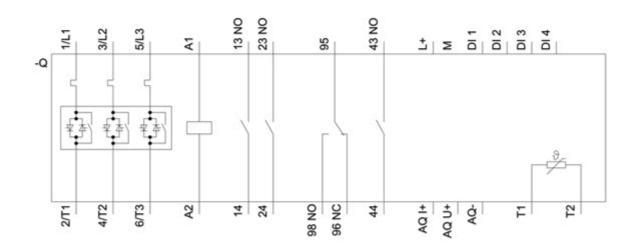
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5545-2HA04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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