## SIEMENS

## Data sheet

## 3RW5224-1TC14



SIRIUS soft starter 200-480 V 47 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>
<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 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>	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3824-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3824-6; 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>3NE1021-2; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start up romp time of soft starter	0

stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms
<ul> <li>for control circuit</li> </ul>	100 ms

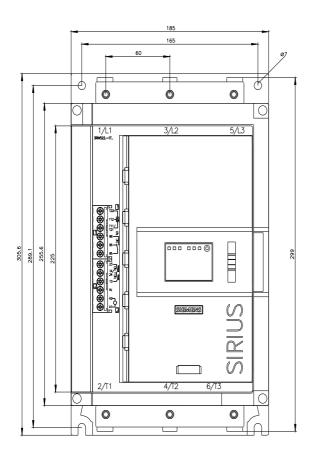
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
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	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<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; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
• via software parameterizable	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
• firmware update	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
torque control	No
<ul> <li>analog output</li> </ul>	No
Power Electronics	
operational current	
• at 40 °C rated value	47 A
• at 50 °C rated value	41.6 A
• at 60 °C rated value	36.2 A
operational current at inside-delta circuit	
• at 40 °C rated value	81.4 A
• at 50 °C rated value	72 A
• at 60 °C rated value	62.7 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	11 kW
• at 230 V at inside-delta circuit at 40 °C rated value	22 kW
• at 400 V at 40 °C rated value	22 kW
• at 400 V at inside-delta circuit at 40 °C rated value	45 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz

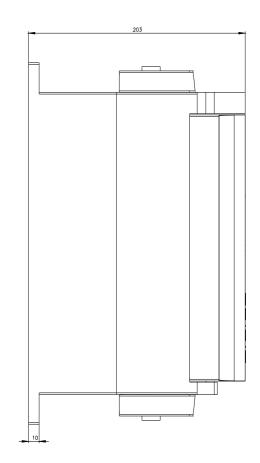
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	20 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	21.8 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	23.6 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	25.4 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	27.2 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	29 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	30.8 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	32.6 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	34.4 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	36.2 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	38 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	39.8 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	41.6 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	43.4 A
at rotary coding switch on switch position 15	45.2 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	47 A
• minimum	20 A
adjustable motor current	
• for inside-delta circuit at rotary coding switch on switch position 1	34.6 A
for inside-delta circuit at rotary coding switch on switch     position 2	37.8 A
for inside-delta circuit at rotary coding switch on switch     position 3	40.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	44 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>	47.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>	50.2 A 53.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	56.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	59.6 A
<ul> <li>for inside delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	62.7 A
<ul> <li>position 10</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	65.8 A
<ul><li>position 11</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	68.9 A
<ul> <li>position 12</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	72.1 A
<ul><li>position 13</li><li>for inside-delta circuit at rotary coding switch on switch</li></ul>	75.2 A
<ul> <li>position 14</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	78.3 A
<ul> <li>position 15</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	81.4 A
position 16 • at inside-delta circuit minimum	34.6 A
• at inside-detta circuit minimum minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	יס אי, הכומווייט ני סווומוויטו שכונמטוב וכ
• at 40 °C after startup	26 W
• at 50 °C after startup	24 W
• at 60 °C after startup	23 W
· · · · · · · · · · · · · · · · · · ·	
power loss [W] at AC at current limitation 350 %	
<ul> <li>power loss [W] at AC at current limitation 350 %</li> <li>at 40 °C during startup</li> </ul>	606 W
• at 40 °C during startup	606 W 522 W
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul>	522 W

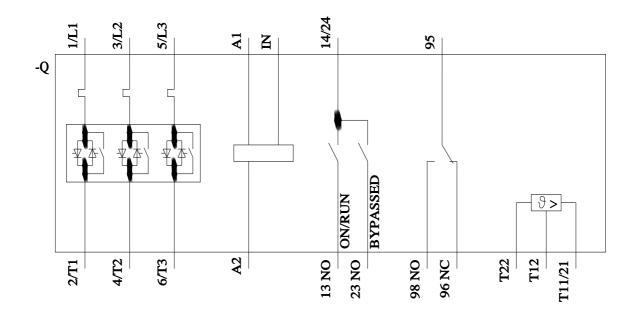
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-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	30 mA
holding current in bypass operation rated value	75 mA
inrush current by closing the bypass contacts maximum	2.5 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 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	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
	0
number of analog outputs	
number of analog outputs switching capacity current of the relay outputs	
switching capacity current of the relay outputs	
switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 A 1 A
<ul> <li>switching capacity current of the relay outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul>	3 A
switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical
switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul></li>	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method</li>	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> </ul></li>	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> </ul> </li>	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
switching capacity current of the relay outputs <ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> </ul> </li> <li>fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul></li>	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • upwards	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         • for control circuit	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         width of connection bar maximum         with conductor cross-section = 0.5 mm <sup>2</sup> maximum	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 50 m
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         width of connection bar maximum         with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • main contacts for box terminal using the front	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 50 m 150 m
switching capacity current of the relay outputs         • at AC-15 at 250 V rated value         • at DC-13 at 24 V rated value         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         width of connection bar maximum         with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum	3 A 1 A */- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.2 kg box terminal screw-type terminals 25 mm 50 m 150 m 250 m

<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)		
• for main contacts for box terminal using the back	1x (2.5 16 mm²)		
clamping point solid <ul> <li>for AWG cables for main contacts for box terminal using</li> </ul>	1x (10 2/0)		
the back clamping point • for main contacts for box terminal using both clamping	2x (2.5 16 mm²)		
points solid	2x (2.5 35 mm <sup>2</sup> )		
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>			
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	2x (6 16 mm²), 2x (10 50 mm²)		
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)		
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	1x (10 70 mm²)		
type of connectable conductor cross-sections			
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )		
<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)		
	······································		
wire length	900 m		
between soft starter and motor maximum	800 m		
at the digital inputs at AC maximum	100 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	4.5 6 N·m		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m		
terminals			
tightening torque [lbf⋅in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	40 53 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in		
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
<ul><li>during operation</li><li>during storage and transport</li></ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C		
during operation	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2		
during operation     ouring storage and transport environmental category	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721 EMC emitted interference	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
• during operation     • during storage and transport     environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721     EMC emitted interference Communication/ Protocol	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A		
• during operation     • during storage and transport     environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721     EMC emitted interference Communication/ Protocol	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A		
• during operation     • during storage and transport environmental category     • during operation according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported     • PROFINET standard	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes		
Ouring operation     ouring storage and transport  environmental category  ouring operation according to IEC 60721  ouring storage according to IEC 60721  ouring transport according to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported  PROFINET standard  EtherNet/IP	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes		
Ouring operation     oduring storage and transport  environmental category     oduring operation according to IEC 60721     oduring storage according to IEC 60721     oduring transport according to IEC 60721 EMC emitted interference Communication Protocol communication module is supported     o PROFINET standard     o EtherNet/IP     o Modbus RTU	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes		
• during operation     • during storage and transport  environmental category      • during operation according to IEC 60721      • during storage according to IEC 60721      • during transport according to IEC 60721  EMC emitted interference  Communication / Protocol  communication module is supported      • PROFINET standard      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes		
Ouring operation     oduring storage and transport  environmental category     oduring operation according to IEC 60721     oduring storage according to IEC 60721     oduring transport according t	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes		
• during operation     • during storage and transport  environmental category      • during operation according to IEC 60721      • during storage according to IEC 60721      • during transport according to IEC 60721      • during transport according to IEC 60721      • during transport according to IEC 60721  EMC emitted interference  Communication Protocol  communication module is supported      • PROFINET standard      • EtherNet/IP      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings manufacturer's article number	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul> </li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 according</li> </ul>	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 according to UL</li> </ul>	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA		
<ul> <li>during operation         <ul> <li>during storage and transport</li> </ul> </li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul> </li> <li>EMC emitted interference</li> <li>Communication module is supported         <ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings         <ul> <li>manufacturer's article number</li> <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> </ul> </li> </ul>	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> </ul>	<ul> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 90 A; lq = 5 kA</li> </ul>		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul> </li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported         <ul> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> </li> <li>UL/CSA ratings         <ul> <li>manufacturer's article number</li> <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 at inside-</li> </ul> </li> </ul>	-40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 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</li> </ul>	<ul> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 90 A; lq = 5 kA</li> </ul>		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> </ul>	<ul> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> </ul>		
<ul> <li>during operation</li> <li>during storage and transport</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</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 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 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 Standard Faults at 575/600 V according to UL</li> </ul> </li> </ul>	<ul> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> </ul>		
<ul> <li>during operation         <ul> <li>during storage and transport</li> </ul> </li> <li>environmental category         <ul> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul> </li> <li>during transport according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>Communication Protocol</li> <li>communication module is supported</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> <li>UL/CSA ratings         <ul> <li>manufacturer's article number</li> <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 insidedelta circuit according to UL</li> <li>usable for High Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at insidedelta circuit according to UL</li> </ul> </li>	<ul> <li>-40 +80 °C</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 90 A; lq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; lq max = 65 kA</li> </ul>		

according to UL — usable for High UL					
	Faults up to 575/600	V according to	Type: Class J / L, max. 175 A; Ic	q = 100 kA	
	<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>		Type: Class RK5 / K5, max. 175 A; Iq = 5 kA		
	<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>		Type: Class J / L, max. 175 A; Iq = 100 kA		
operating power [hp] for 3	-phase motors				
• at 200/208 V at 50 °C	rated value		10 hp		
• at 220/230 V at 50 °C	rated value		10 hp		
• at 460/480 V at 50 °C	rated value		30 hp		
<ul> <li>at 200/208 V at inside</li> </ul>	e-delta circuit at 50 °C	rated value	20 hp		
<ul> <li>at 220/230 V at inside</li> </ul>	e-delta circuit at 50 °C	rated value	25 hp		
• at 460/480 V at inside	e-delta circuit at 50 °C	rated value	50 hp		
contact rating of auxiliary	contacts according	to UL	R300-B300		
Safety related data					
protection class IP on the	front according to I	EC 60529	IP00; IP20 with cover		
touch protection on the fr	ont according to IEC	60529	finger-safe, for vertical contact fr	om the front with cover	
electromagnetic compatib	vility		in accordance with IEC 60947-4	-2	
Certificates/ approvals					
General Product Approva	1				EMC
	(mark)	Confirmatio	• <b>•</b>	rnr	A
(39)	$(\mathbf{m})$		(VL)	FHI	A A
	$\sim$		<u> </u>	LIIL	BCM
C34	ccc		62		NG M
Declaration of Conformity	1	Test Certificate	es Marine / Shipping		
,					
		Type Test Cer	tific-	ALC: YES	
UK	<i>( ( ( ( ( ( ( ( ( (</i>	ates/Test Rep		<u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	Lloyd's
					Kegister
СН	EG-Konf.		ABS	1411	LRS
				VERITAS	
Marine / Shipping of	ther				
-	Orafination				
(And )	Confirmation				
PRS					
Further information					
	vit the Buccian mark	(can hara)			
Siemens has decided to e			own-russian-business		
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