## **SIEMENS**

Data sheet 3RW5213-3AC04



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC spring-type terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- $\bullet$  of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10

3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10

3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NA3820-6; Type of coordination 1, Iq = 65 kA

3NE1815-0; Type of coordination 2, Iq = 65 kA

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

## General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

## product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

• for main current circuit	100 ms
• for control circuit	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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	000.1/
between main and auxiliary circuit     shock resistance	600 V
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	02/10/2010
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No
• inside-delta circuit	Yes
• auto-RESET	Yes
• manual RESET	Yes
<ul> <li>remote reset</li> </ul>	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
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
at 40 °C rated value	13 A
at 50 °C rated value	11.5 A
at 60 °C rated value	10.5 A
operational current at inside-delta circuit	00.5 4
• at 40 °C rated value	22.5 A
• at 50 °C rated value	19.9 A
at 60 °C rated value	18.2 A
operating voltage	200 490 1/
<ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> </ul>	200 480 V 200 480 V
relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
at 230 V at 40 °C rated value	3 kW
• at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
• at 400 V at 40 °C rated value	5.5 kW
• at 400 V at inside-delta circuit at 40 °C rated value	11 kW
Operating frequency 1 rated value	50 Hz

Operating frequency 2 rated value relative negative tolerance of the operating frequency	60 Hz -10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
at rotary coding switch on switch position 1	5.5 A
at rotary coding switch on switch position 2     at rotary coding switch on switch position 2	6 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> </ul>	6.5 A 7 A
at rotary coding switch on switch position 5	7.5 A
at rotary coding switch on switch position 6	8 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	8.5 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	9 A
at rotary coding switch on switch position 9     at rotary coding switch on switch position 10	9.5 A
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> </ul>	10 A 10.5 A
at rotary coding switch on switch position 12	11 A
at rotary coding switch on switch position 13	11.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	12 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	12.5 A
at rotary coding switch on switch position 16	13 A
minimum     adjustable motor current	5.5 A
for inside-delta circuit at rotary coding switch on	9.5 A
switch position 1	40.4.6
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	10.4 A
for inside-delta circuit at rotary coding switch on	11.3 A
<ul><li>switch position 3</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	12.1 A
switch position 4	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	13 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	13.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	14.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	15.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	16.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	17.3 A
for inside-delta circuit at rotary coding switch on switch position 11	18.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	19.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	19.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	20.8 A
for inside-delta circuit at rotary coding switch on switch position 15	21.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	22.5 A
<ul> <li>at inside-delta circuit minimum</li> <li>minimum load [%]</li> </ul>	9.5 A 15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	15 %, Nelative to smallest settable le
• at 40 °C after startup	16 W
at 50 °C after startup	15 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	240 W
<ul> <li>at 40 °C during startup</li> <li>at 50 °C during startup</li> </ul>	210 W 178 W
at 60 °C during startup     at 60 °C during startup	161 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

<ul> <li>at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
<ul> <li>at DC rated value</li> </ul>	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	160 mA
holding current in bypass operation rated value	360 mA
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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
	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)
number of analog outputs	1
switching capacity current of the relay outputs	
at AC-15 at 250 V rated value	3 A
<ul><li>at AC-15 at 250 V rated value</li><li>at DC-13 at 24 V rated value</li></ul>	3 A 1 A
at AC-15 at 250 V rated value	
<ul><li>at AC-15 at 250 V rated value</li><li>at DC-13 at 24 V rated value</li></ul>	1 A +/- 10° rotation possible and can be tilted forward or backward on
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position	1 A  +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
at AC-15 at 250 V rated value     at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm
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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm
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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm
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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method height <ul> <li>width</li> <li>depth</li> </ul> required spacing with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul> required spacing with side-by-side mounting <ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
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 main current circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
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 main current circuit  for control circuit	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
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 main current circuit  for control circuit  type of connectable conductor cross-sections	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg
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 main current circuit  for control circuit  type of connectable conductor cross-sections  for main contacts	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals
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 main current circuit  for control circuit type of connectable conductor cross-sections  for main contacts  solid	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals  2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals  2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main current circuit solid</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals  2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> weight without packaging Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main current circuit solid</li> </ul> type of connectable conductor cross-sections <ul> <li>at AWG cables for main current circuit solid</li> </ul> type of connectable conductor cross-sections <ul> <li>at AWG cables for main current circuit solid</li> </ul> type of connectable conductor cross-sections <ul> <li>of connectable conductor cross-sections</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals  2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8)
<ul> <li>at AC-15 at 250 V rated value</li> <li>at DC-13 at 24 V rated value</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main current circuit solid</li> </ul>	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm 5 mm 2.1 kg  screw-type terminals spring-loaded terminals  2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)

## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for circuit finely stranded with 2x (24 16) ## ANVC cables for control circuit finely stranded with 2x (24 16) ## ANVC cables for circuit finely stranded with 2x (24 16) ## ANVC cables for circuit finely stranded with 2x (24 16) ## ANVC cables for circuit finely stranded with 2x (24 12) ## ANV cables for circuit finely stranded with 2x (24 12) ## ANV cables for circuit finely stranded finely stranded with 2x (24 12) ## ANV cables for circuit finely stranded fin		
a Law Wise and Starter and motor maximum between soft starter and motor soft starter and motor maximum between soft starter and motor maximum between soft starter and motor soft starter and motor soft starter and motor soft soft soft soft soft soft soft soft	processing	
core and processing wive length  • between soft sharter and motor maximum • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with sorew-type terminals •		· · · · · ·
**seleven soft starter and motor maximum ** at the digital inputs at DC maximum ** at the digital inputs at DC maximum 100 m 10 m 1		2x (24 16)
Setween soft starter and motor maximum     at the digital injust at AC maximum     the digital injust at DC maximum     to main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals     installation altitude at height above sea level maximum ambient temperature     submitted temperature     submitted at the properties     submitted temperature     submitted at the properties     submitted at the properties of the properties		
* of the digital injust as IDC maximum     * of the digital injust as IDC maximum     * of the full injust as IDC maximum     * of the full injust as IDC maximum     * of the full injust and control confacts with screw-type     * of main contacts with screw-type terminals     * of resultings and control confacts with screw-type     * of main contacts with screw-type terminals     * of resulting and control confacts with screw-type     * of main contacts with screw-type terminals     * of resulting and control confacts with screw-type     * of main contacts with screw-type     * of maximum     * of resulting and control confacts with screw-type     * of maximum     * of maxim	_	800 m
** at the digital injust at DC maximum lightening torque      ** for main contacts with screw-type terminals     ** for for the ferminals     ** during portaninals     ** during portaninals     ** during portaninals     ** during portaninals     ** during portaninal according to IEC 60721     ** emitted interference     ** Emeritary Protocol     ** emitted interference     ** emitted interference     ** emitted int		
### standard Faults at 460/480 V at Inside-delta circuit according to UL.  ### standard Faults at 460/480 V at Inside-delta circuit according to UL.  ### standard Faults at 1675/600 V according to UL.  ### standard Faults at 1		
• 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  ### Ambient conditions  ### Installation altitude at height above sea level maximum ambient temperature • during pareation according to IEC 60721 • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • during storage according to IEC 60721 • PROFIGUE according to IEC 60721		1 000 111
• for auxiliary and control contacts with screw-type terminals • for 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 installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during operation according to IEC 60721 • during parametric according to IEC 60721 • during parametric according to IEC 60721 • during storage according to IEC 60721 • during the storage according to IEC 60721 • during the storage according to IEC 60721 • Communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • Communication module is supported • PROFIBUS   * 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 up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/60		2 25 N.m
terminals  if pithering torque [lb-in]  of or main contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum ambient temperature  oduring storage and transport  oduring storage and transport  oduring storage and transport  oduring storage according to IEC 60721  oduring operation according to IEC 60721  oduring transport according to IEC 60721  oduring transport according to IEC 60721  oduring transport according to IEC 60721  EMC emitted interference  Communication Protocol  PROFINET standard  observed  PROFINET standard  observed  PROFINET standard  observed  observed  PROFINET standard  observed  observed  observed derating at temperatures of 40 °C or above  above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed  observed derating at temperatures of 40 °C or above  acc. to IEC 60947-4-2: Class A  Communication module is supported  observed be devices, 1M4  yes  observed be devices, 1M4  yes  observed be devices, 1M4  yes  observed maximum  anish, 352 (sand must not get into the devices), 3M6  1K6 (no loc formation, only occasional condensation), 3C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6  acc. to IEC 60947-4-2: Class A  Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  Siemens ty		
### standard Faults at 460/480 V according to U.  - usable for Standard Faults at 460/480 V according to U.  - usable for Standard Faults at 460/480 V according to U.  - usable for Standard Faults at 460/480 V according to U.  - usable for Standard Faults at 460/480 V according to U.  - usable for Standard Faults up to 575/600 V according to U.  - usable for Standard Faults at 360/480 V at inside-delta cricuit up to 575/600 V according to U.  - usable for Standard Faults at 576/600 V according to U.  - usable for Standard Faults at 576/600 V according to U.  - usable for Standard Faults at 576/600 V according to	,	0.0 1.2 (4 )(1
• 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  ### Ambient conditions  **installation altitude at height above sea level maximum ambient temperature • during poteration • during poteration • during storage and transport • during storage and transport • during storage and transport • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFINET standard • Chemenication if Profocol  #### ULICSA ratings  #### ULICSA ratings  ### ULICSA rating	tightening torque [lbf·in]	
• for auxiliary and control contacts with screw-type terminals  Installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during porage and transport • during portation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFIED Protocol  Communication module is supported • PROFIEDS • PROFIEUS • PROFI		18 22 lbf·in
Installation altitude at height above sea level maximum ambient temperature  • during operation  • during operation according to IEC 60721  • during peration according to IEC 60721  • during storage ac	<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
installation altitude at height above sea level maximum ambient temperature  • during operation  • during storage and transport  • during storage and transport  • during storage according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFIBUS   **Brown transport according to IEC 60721  **Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 50 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 50 A; Iq = 5 kA  **Siemens type: 3RV2742, max. 50 A; Iq = 5 kA  **Siemens type: SRV2742, max. 50 A; Iq = 5 kA  **Siemens type: SRV2742	terminals	
### during operation ### during operation ### during operation according to IEC 60721 ### during operation according to IEC 60721 ### during operation according to IEC 60721 ### during storage accor	Ambient conditions	
- during operation - during storage and transport - during poeration according to IEC 60721 - during storage according to IEC 60721 - during transport according to IEC 60721 - during transport according to IEC 60721 - EMC emitted interference - Communication/ Protocol - communication/ Protocol - Communication module is supported - PROFINET standard - Etherhel/IP - Modbus RTU - Modbus RTU - Modbus RTU - PROFIBLS - PROFI	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
above 4 during storage and transport environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • EMC emitted interference  Communication/Protocol  ves  eltherNet/IP  • Modbus RTU  • Yes  • Yes  • PROFIBUS  pros  res  res  res  res  res  res  res	ambient temperature	
• during storage and transport     • during operation according to IEC 60721     • during storage according to IEC 60721     • during storage according to IEC 60721     • during storage according to IEC 60721     • during transport according to IEC 60721     • PROFIBUS  #*Ves**  **PROFIBUS**  ##Wes**  **PROFIBUS**  ##Wes**  **PROFIBUS**  ##Wes**  **PROFIBUS**  ##Wes**  **Included a faults at 460/480 V according to IU.  - usable for Standard Faults at 460/480 V at insidedelta circuit according to IU.  - usable for Standard Faults at 575/600 V according to IU.  - usable for Standard Faults up to 575/600 V according to IU.  - usable for Standard Faults up to 575/600 V according to IU.  - usable for Standard Faults up to 575/600 V according to IU.  - usable for Standard Faults up to 575/600 V according to IU.  - usable for High Faults up to 575/600 V according to IU.  - usable for High Faults up to 575/600 V according to IU.  - usable for High Faults up to 575/600 V according to IU.  - usable for High Faults up to 575/600 V according to IU.  - usable for High Faults at inside-delta circuit up to 575/600 V according to IU.  - usable for High Faults at inside-delta circuit up to 575/600 V according t	<ul> <li>during operation</li> </ul>	
environmental category  • during operation according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard Faults at 460/480 V according to IEC 60721  • PROFINET standard Paults 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 575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at 1575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Fau		
during operation according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721     EMC emitted interference     dominication/ Protocol  communication/ Protocol  communication/ Protocol  communication/ Protocol  communication module is supported     PROFINET standard     PROFINET standard     PROFIBUS     Modbus RTU     Modbus RTU     Nodbus RTU		-40 +80 °C
<ul> <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>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>Yes</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 Flandard 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> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>pusable for Standard Faults at inside-delta circuit up to 5</li></ul>		
• during storage according to IEC 60721     • during transport according to IEC 60721     • during transport according to IEC 60721     • EMC emitted interference  Communication module is supported     • PROFINET standard     • PROFINET standard     • PROFINET standard     • PROFIBUS  PROFIBUS  UL/CSA ratings  manufacturer's article number     • of circuit breaker     — usable for Standard Faults at 460/480 V according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 575/600 V according to UL     — usable for Standard Faults at 575/600 V according to UL     — usable for Standard Faults at 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults at the double according to UL     — usable for Standard Faults at the double according to UL     — usable for Standard Faults at the double according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Standard Faults at inside	<ul> <li>during operation according to IEC 60721</li> </ul>	
oduring transport according to IEC 60721  EMC emitted interference  communication/ Protocol  communication/ Protocol  communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  PROFIBUS  Wes  Modbus TCP  PROFIBUS  TUCSA ratings  manufacturer's article number  of circuit breaker	a during storage according to IEC 60721	
• during transport according to IEC 60721  EMC emitted interference  communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 4575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults	• during storage according to IEC 60721	
EMC emitted interference   acc. to IEC 60947-4-2; Class A	<ul> <li>during transport according to IEC 60721</li> </ul>	
e PROFINET standard  ● PROFINET standard  ● PROFINET standard  ● EtherNet/IP  ● Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS   **Tes  *		
e PROFINET standard  ● PROFINET standard  ● PROFINET standard  ● EtherNet/IP  ● Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS   **Tes  *	Communication/ Protocol	
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EtherNet/IP     Modbus RTU     Modbus TCP     PROFIBUS     Yes     Yes  IL/CSA ratings  manufacturer's article number     of circuit breaker     — usable for Standard Faults at 460/480 V according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     — usable for Fligh 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 Standard Faults at 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for Standard Faults up to 575/600 V according to UL     — usable for High Faults up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for High Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circuit up to 575/600 V according to UL     — usable for Tigh Faults at inside-delta circui	• • • • • • • • • • • • • • • • • • • •	Yes
Modbus RTU Modbus TCP PROFIBUS  Wes Yes Yes Yes Yes Yes Yes Yes Yes Yes Y		
• Modbus TCP • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V according to UL. — usable for High Faults at 460/480 V at inside-delta circuit according to UL. — usable for High Faults at 460/480 V at inside-delta circuit according to UL. — usable for High Faults at 460/480 V at inside-delta circuit according to UL. — usable for Standard Faults at 575/600 V according to UL. — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL. — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL. — usable for Standard Faults at 575/600 V according to UL. — usable for Standard Faults up to 575/600 V according to UL. — usable for Standard Faults up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL. — usable for High Faults at inside-delta circuit up to 575/600 V according to UL. — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575		
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<ul> <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 575/600 V 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 inside-delta circuit according to UL</li> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Thigh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Thigh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for Thigh Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>	<ul> <li>usable for High Faults at 460/480 V according</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65
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 Standard Faults at 575/600 V at inside-delta circuit according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq =	to UL	
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delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated	3	Sigmons type: 2DV2742 may 20 A or 2VAE4 may 25 A la may = 05
<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>• of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Operating power [hp] for 3-phase motors</li> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>	9	
according to UL  — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated  5 hp	e e e e e e e e e e e e e e e e e e e	
inside-delta circuit according to UL  of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  o at 200/208 V at 50 °C rated value  at 460/480 V at 50 °C rated value  at 200/208 V at inside-delta circuit at 50 °C rated  of the fuse  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class J / L, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 5 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5 / K5, max. 50 A; Iq = 100 kA  Type: Class RK5		,,
<ul> <li>• of the fuse  — usable for Standard Faults up to 575/600 V according to UL  — usable for High Faults up to 575/600 V according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  Operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated  5 hp</li> </ul>		Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
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<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Operating power [hp] for 3-phase motors</li> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>		Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
according to UL  — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated • at 200/208 V at inside-delta circuit at 50 °C rated  5 hp	3	Type: Class J / L max 50 A: In = 100 kA
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>Operating power [hp] for 3-phase motors</li> <li>• at 200/208 V at 50 °C rated value</li> <li>• at 220/230 V at 50 °C rated value</li> <li>• at 460/480 V at 50 °C rated value</li> <li>• at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>	• •	1 ypc. 01433 0 7 E, 1114x. 30 74, 14 - 100 104
circuit up to 575/600 V according to UL  — usable for High Faults at inside-delta circuit up to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value  • at 220/230 V at 50 °C rated value  • at 460/480 V at 50 °C rated value  • at 200/208 V at inside-delta circuit at 50 °C rated  • at 200/208 V at inside-delta circuit at 50 °C rated  5 hp	<u> </u>	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
to 575/600 V according to UL  operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value 2 hp  • at 220/230 V at 50 °C rated value 3 hp  • at 460/480 V at 50 °C rated value 7.5 hp  • at 200/208 V at inside-delta circuit at 50 °C rated 5 hp	circuit up to 575/600 V according to UL	
operating power [hp] for 3-phase motors  • at 200/208 V at 50 °C rated value 2 hp  • at 220/230 V at 50 °C rated value 3 hp  • at 460/480 V at 50 °C rated value 7.5 hp  • at 200/208 V at inside-delta circuit at 50 °C rated 5 hp		Type: Class J / L, max. 50 A; Iq = 100 kA
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>	_	
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>		
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 200/208 V at inside-delta circuit at 50 °C rated</li> <li>5 hp</li> </ul>		
at 200/208 V at inside-delta circuit at 50 °C rated     5 hp		·
· ·		·
	■ at 200/200 v at inside-della circuit at 50 °C rated	Juh

• at 220/230 V at inside-delta circuit at 50 °C rated

• at 460/480 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

5 hp

10 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP20

finger-safe, for vertical contact from the front

in accordance with IEC 60947-4-2

Certificates/ approvals

**General Product Approval** 

EMC



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

## **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5213-3AC04

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5213-3AC04$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-3AC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5213-3AC04&lang=en

Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

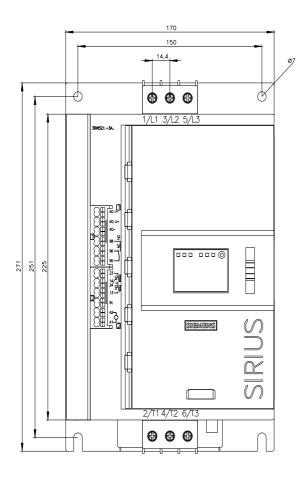
https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-3AC04/char

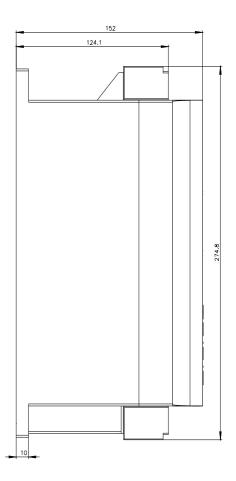
Characteristic: Installation altitude

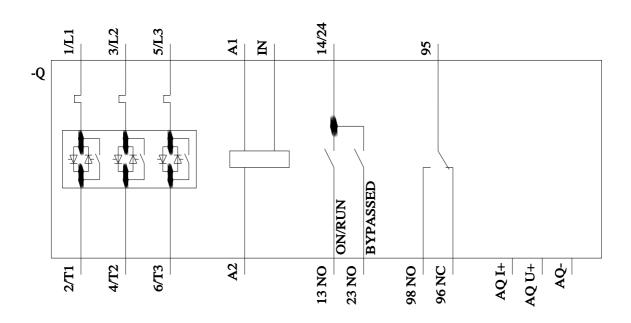
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5213-3AC04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







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