## **SIEMENS**

Data sheet 3RW5216-1TC14



SIRIUS soft starter 200-480 V 32 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>	3RW5980-0HS00
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4JA10; 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>	3NE1818-0: Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE8022-1; Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	30 100 %
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	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	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	
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	
between main and auxiliary circuit	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	
• ramp-up (soft starting)	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
<ul> <li>motor overload protection</li> </ul>	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
<ul> <li>inside-delta circuit</li> </ul>	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
<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	No
Power Electronics	
operational current	
• at 40 °C rated value	32 A
at 50 °C rated value	28 A
at 60 °C rated value	26 A
operational current at inside-delta circuit	
• at 40 °C rated value	55.4 A
• at 50 °C rated value	49 A
at 60 °C rated value	45 A
operating voltage	200 (00)
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	

-t 000 V -t 40 %0t- dl	7.5 1.44
• at 230 V at 40 °C rated value	7.5 kW
• at 230 V at inside-delta circuit at 40 °C rated value	15 kW
• at 400 V at 40 °C rated value	15 kW
at 400 V at inside-delta circuit at 40 °C rated value	22 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	***
at rotary coding switch on switch position 1	14 A
at rotary coding switch on switch position 2	15.2 A
at rotary coding switch on switch position 3	16.4 A
at rotary coding switch on switch position 4	17.6 A
at rotary coding switch on switch position 5	18.8 A
at rotary coding switch on switch position 6	20 A
at rotary coding switch on switch position 7	21.2 A
at rotary coding switch on switch position 8	22.4 A
at rotary coding switch on switch position 9     at rotary coding switch on switch position 10	23.6 A
at rotary coding switch on switch position 10     at rotary coding switch on switch position 11	24.8 A
at rotary coding switch on switch position 11     at rotary coding switch on switch position 12	26 A
at rotary coding switch on switch position 12     at rotary coding switch on switch position 12	27.2 A
at rotary coding switch on switch position 13     at rotary coding switch on switch position 14	28.4 A
at rotary coding switch on switch position 14     at rotary coding switch on switch position 15	29.6 A 30.8 A
<ul> <li>at rotary coding switch on switch position 15</li> <li>at rotary coding switch on switch position 16</li> </ul>	30.8 A 32 A
at rotary county switch on switch position ro     minimum	14 A
adjustable motor current	14 //
for inside-delta circuit at rotary coding switch on switch position 1	24.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	26.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	28.4 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	30.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	32.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	34.6 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	36.7 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	38.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	40.9 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	43 A
for inside-delta circuit at rotary coding switch on switch position 11	45 A
for inside-delta circuit at rotary coding switch on switch position 12      for inside delta sizewit at rotary coding switch on switch on the sizewit at rotary coding switch on the sizewit at rotary coding switch on the sizewit at rotary coding switch on the switch of the sizewit at rotary coding switch on the switch of the sizewit at rotary coding switch on the switch of	47.1 A
for inside-delta circuit at rotary coding switch on switch position 13	49.2 A
for inside-delta circuit at rotary coding switch on switch position 14  for inside delta significant paters and instruction are	51.3 A
for inside-delta circuit at rotary coding switch on switch position 15      for inside delta sizewit at rotary coding switch on	53.3 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	55.4 A
at inside-delta circuit minimum  minimum lood [9/1]	24.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC  • at 40 °C after startup	22 W
at 50 °C after startup	21 W
■ at 50 Gaiter startup	Z I VV

<ul> <li>at 60 °C after startup</li> </ul>	20 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	531 W
at 50 °C during startup	449 W
at 60 °C during startup	395 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz	
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
locked-rotor current at close of bypass contact maximum	0.17 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	
Inputs/ Outputs number of digital inputs	1
	1 3
number of digital inputs	
number of digital inputs number of digital outputs	3
number of digital inputs number of digital outputs  • not parameterizable	3 2
number of digital inputs number of digital outputs  • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm
number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs  • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position  fastening method height width depth	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards	2 normally-open contacts (NO) / 1 changeover contact (CO) 0  3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  275 mm  170 mm  152 mm
number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  275 mm  170 mm  152 mm  10 mm  0 mm  100 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position  fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm
number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • downwards  • at the side	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  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	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm  10 mm 0 mm 100 mm 75 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 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	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs  number of digital outputs  • not parameterizable  digital output version  number of analog outputs  switching capacity current of the relay outputs  • at AC-15 at 250 V rated value  • at DC-13 at 24 V rated value  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	2 normally-open contacts (NO) / 1 changeover contact (CO)  3 A  1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  275 mm  170 mm  152 mm  10 mm  0 mm  1 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 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	2 normally-open contacts (NO) / 1 changeover contact (CO) 0 3 A 1 A  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 275 mm 170 mm 152 mm 10 mm 0 mm 100 mm 75 mm 5 mm

• with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts  — solid — finely stranded with core end processing • at AWC cables for main current circuit solid • for control circuit solid • for solids in solid	wire length for thermister connection	
• with conductor cross-section = 1,5 mm² maximum  • with conductor cross-sections • for main contects  - solid  — finely stranded with core end processing • at AWG cables for main current circuit solid  type of connectable conductor cross-sections • for control circuit solid  type of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for main current circuit solid  vior control circuit finely stranded with core end processing • at AWG cables for control circuit solid  wire length • between soft starter and motor maximum • at the digital inputs at AC maximum  ityphening torque • for main contacts with screw-type terminals • for auxiliary and control	wire length for thermistor connection	F0
type of connectable conductor cross-sections  - for main contacts  - solid  - finely stranded with core end processing  - at AWG cables for main current circuit solid  - for control circuit finely stranded with core end processing  - at AWG cables for control circuit solid  - for control circuit finely stranded with core end processing  - at AWG cables for control circuit solid  - for control circuit finely stranded with core end processing  - at AWG cables for control circuit solid  - for availance and control control solid  - for since the solid in puts at AC maximum  - solid starter and motor maximum  - at the digital inputs at AC maximum  - tiphtening torque - for main contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availancy and control contacts with screw-type terminals - for availance and the scr		
Section   Sect		
• for main contacts  — sold  — finely stranded with core end processing • at AWG cables for main current circuit sold  — finely stranded with core end processing • at AWG cables for main current circuit sold  • for control circuit sold • for control circuit sold • for control circuit finely stranded with core end processing • at AWG cables for control circuit sold  • for control circuit finely stranded with core end processing • at AWG cables for control circuit sold  • for main contacts • for surviliary and control contacts • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for for main contacts with screw-type terminals • for for main contacts with screw-type terminals • for auxiliary and control c		250 M
- finely stranded with core end processing		0 (40 05 3) 0 (05 40 3)
* at AWC cables for main current circuit solid  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWC cables for control circuit solid  * to control circuit finely stranded with core end processing  • at AWC cables for control circuit solid  * to control circuit finely stranded with core end processing  • at AWC cables for control circuit solid  * to control circuit finely stranded with core end processing  • at AWC cables for control circuit solid  * to control circuit finely stranded with core end processing  • at AWC cables for control circuit solid  * to control circuit finely stranded with core end processing  • at AWC cables 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 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 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 at 460/480 V according to UL  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V 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 at 460/480 V according to UL  — usable for Standard Faults at 460		
type of connectable conductor cross-sections  • for control circuit solid  • for solid solid solid  • for auxiliary and control contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for solid s		
• for control circuit solid • for control circuit finely standed with core end processing • at AWG cables for control circuit solid  wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • during operation • during operation • during operation • during operation • during storage according to IEC 60721 • during storage accordin		2x (16 12), 2x (14 8)
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid  wire length • between soft starter and motor maximum • at the digital inputs at AC maximum  • at the digital inputs at AC maximum  tightnening torque • 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 main contacts with screw-type terminals • for maxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for Circuit decording to IEC 60721 • during operation • during storage according to IEC 60721 • PROFINET standard • PROFIN	· ·	4 (05 40 3) 0 (05 05 3)
processing		
* at AWG cables for control circuit solid  wire length between soft starter and motor maximum at the digital inputs at AC maximum 100 m  tightning torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type for "Ce of		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  100 m  tightening torque  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  • for control auxiliary and control contacts with screw-type terminals  • for main laux		1x (20 12) 2x (20 14)
• between soft starter and motor maximum     • at the digital inputs at AC maximum     100 m      • to ramin contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • for auxiliary and control contacts with screw-type terminals     • during peration     • during operation     • during operation according to IEC 60721     • during operation according to UL     • washe for High Faults at 460/480 V at		1X (20 12), 2X (20 14)
at the digital inputs at AC maximum  tightening torque  of or main contacts with screw-type terminals  of auxiliary and control contacts with screw-type terminals  of auxiliary and control contacts with screw-type terminals  of or auxiliary and control on text served the served of one provided and read on the provided of or contacts and transport  of or control of or auxiliary and transport  of or control or or auxiliary and transport  of or control or or auxiliary and transport  of or control or		800 m
tightening torque  • 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 main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type and so for any and auxiliary and auxilia		
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals  tightening torque [librin] • 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 poperation • during storage and transport • during operation according to IEC 60721 • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • PROFIBUS  ULCSA ratings  manufacturer's article number • of circuit breaker  — usable for High Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 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		100 111
tightening torque [lbf-in]  of main contacts with screw-type terminals  of or auxiliary and control contacts with screw-type terminals  of or auxiliary and control contacts with screw-type terminals  Ambient conditions installation altitude at height above sea level maximum  ambient temperature  of during operation  oduring storage and transport  of during storage according to IEC 60721  of during storage according to IEC 60721  of during transport according to IEC 60721  EMC emitted interference  communication Protocol  communication module is supported  of elern-Ner/IP  of circuit breaker  of circuit cording to IIL  usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  usable for Standard Faults at 460/480 V at content of the cord of the cording to UL  usable for Standard Faults at 460/480 V at an abelief or Ithin Faults at 460/480 V at the cord of the cord		2 25 N·m
tightening torque [ibf-in]  • for main contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum • during operation • during operation • during storage and transport • during storage and transport • during operation according to IEC 60721 • during storage according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 • Communication Protocol  Communication Protocol  communication Protocol  communication Follows  Tyes • PROFIBUS  UL/CSA ratings  manufacturer's article number • of circuit breaker  — usable for Standard Faults at 460/480 V a inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V a tinside-delta circuit according to UL  — usable for Standard Faults at 460/480 V a tinside-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 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 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		
tightening torque [lbf-in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  **Total Substitute**  **Total Substit		0.0 1.2 IV III
• for main 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 operation • during storage and transport • 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  • PROFIBUS  PROFIBUS  Ture  - 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 at 450/480 V according to UL  - usable for Standard Faults at 450/480 V according to UL  - usable for Standard Faults at 450/480 V according to UL  - usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 450/480 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 at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/600 V according to UL  - Standard Faults at 575/		
e for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during operation according to IEC 60721  • 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  • Definited interference  Communication Protocol  communication module is supported  • PROFINET standard  • PROFIBUS  ULCSA ratings  manufacturer's article number  • of circuit breaker  — usable for High 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 Standard Faults at 450/480 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 at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL  — usable for Standard Faults at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL  — usable for Standard Faults at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL  — usable for Standard Faults at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL  — usable for Standard Faults at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL  — usable for Standard Faults at 575/600 V  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA according to UL		18 22 lbf·in
terminals  Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage and transport  • during paration according to IEC 60721  • during storage according to IEC 60721  • during storage according to IEC 60721  • during transport according to IEC 60721  • PROFINET standard  • PROFINES  • Modbus RTU  • Modbus RTU  • PROFIBUS    **Pes  **UCCSA 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 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 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		7 10.3 lbf·in
installation altitude at height above sea level maximum  ambient temperature  • during operation  • 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  • during transport according to IEC 60721  EMC emitted interference  Communication module is supported  • EtherNevIP  • Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS  TUCSA 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 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 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		
amblent temperature  • during operation  • during storage and transport  • during storage and transport  • during operation according to IEC 60721  • 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 module is supported  • PROFINET standard  • PROFINET standard  • PROFIBUS   **Yes**  • Modbus RTU  • Modbus RTU  • Modbus TCP  • PROFIBUS  **Tyes**  **Tyes**  **Inside the devices), 1M4  **Yes**  • LitherNet/IP  • Modbus TCP  • PROFIBUS  **Tyes**  **Inside the devices), 1M4  **Yes**  **EtherNet/IP  • Modbus RTU  • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for 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 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 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	Ambient conditions	
<ul> <li>during operation</li> <li>during storage and transport</li> <li>40 +80 °C</li> <li>environmental category</li> <li>during operation according to IEC 60721</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2: Class A</li> </ul> EMC emitted interference <ul> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>PROFIBUS</li> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>PROFIBUS</li> <li>Ves</li> <li>PROFIBUS</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 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>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
oduring storage and transport     oduring operation according to IEC 60721     oduring storage according to IEC 60721     oduring storage according to IEC 60721     oduring storage according to IEC 60721     oduring transport according to IE	ambient temperature	
<ul> <li>during storage and transport</li> <li>during operation according to IEC 60721</li> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IE</li></ul>	<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  • 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 RTU  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of circuit breaker  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for 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 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 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  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA		
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 accord		-40 +80 °C
mist), 3S2 (sand must not get into the devices), 3M6  • during storage according to IEC 60721  • during transport according to IEC 60721  EMC emitted interference  communication / Protocol  communication module is supported  • PROFINET standard  • Modbus RTU  • Modbus TCP  • PROFIBUS  PROFIBUS   TulcSA ratings  manufacturer's article number  • of circuit breaker  — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V  according to UL  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA		
• during storage according to IEC 60721     • during transport according to IEC 60721  EMC emitted interference     • acc. to IEC 60947-4-2: Class A  Communication/ Protocol  communication module is supported     • PROFINET standard     • PROFINET standard     • EtherNet/IP     • Modbus RTU     • Modbus TCP     • PROFIBUS  Wes  • 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 Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 460/480 V at inside-delta circuit according to UL     • usable for Standard Faults at 450/480 V at inside-delta circuit according to UL     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA     • Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA	during operation according to IEC 60721	
ot get inside the devices), 1M4  2k2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  EMC emitted interference  communication / Protocol  communication module is supported  • PROFINET standard  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • 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 Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 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 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	during storage according to IEC 60721	
EMC emitted interference  communication/ Protocol  communication module is supported  PROFINET standard PROFINET standard PROFINET standard PROFINET standard Protocol  Yes Modbus RTU Protocol  Modbus RTU Protocol  Yes Modbus TCP PROFIBUS PROFIBUS  Wes  Ves  Ves PROFIBUS  Wes  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 Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  - usable for Standard Faults at 575/600 V according to UL  - usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA	adming storage according to 120 cor 21	
communication module is supported  PROFINET standard  PROFINET standard  PROFINET standard  Pres  Modbus RTU  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  Wes  Ves  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 Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 450/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA	<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
communication module is supported  PROFINET standard  PROFINET standard  Yes  Modbus RTU  Modbus TCP  PROFIBUS  Ves  PROFIBUS  Ves  PROFIBUS  Ves  Ves  Ves  Ves  Ves  PROFIBUS  Wes  Ves  Ves  Ves  Ves  PROFIBUS  Wes  Ves  Ves  Ves  Ves  Ves  Ves  Ves	EMC emitted interference	acc. to IEC 60947-4-2: Class A
PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  PROFIBUS  Wes  PROFIBUS  Ves  Ves  Ves  Ves  Ves  Ves  Ves  Ve	Communication/ Protocol	
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V 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 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>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	communication module is supported	
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>Modbus TCP</li> <li>Yes</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V 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 according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	• EtherNet/IP	Yes
● PROFIBUS  Wanufacturer's article number  ● of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for 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 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA	Modbus RTU	Yes
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 according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 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 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	Modbus TCP	Yes
<ul> <li>■ of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V 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 575/600 V according to UL</li> <li>— Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	PROFIBUS	Yes
<ul> <li>• of circuit breaker  — usable for Standard Faults at 460/480 V according to UL  — usable for High 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 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 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  — Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3VA51, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	UL/CSA ratings	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>— usable for Standard Faults at 460/480 V at 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 575/600 V according to UL</li> <li>— Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>	manufacturer's article number	
according to UL  — usable for High 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 High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA	of circuit breaker	
to UL  — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  — usable for High Faults at 460/480 V at inside-delta circuit according to UL  — usable for Standard Faults at 575/600 V according to UL  — usable for Standard Faults at 575/600 V according to UL  KA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA
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  Siemens type: 3VA51, max. 60 A; Iq max = 65 kA  Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA		
<ul> <li>usable for High 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>Siemens type: 3VA51, max. 60 A; Iq max = 65 kA</li> <li>Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA</li> </ul>		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA
according to UL		Siemens type: 3VA51, max. 60 A; Iq max = 65 kA
		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA
inside-delta circuit according to UL	9	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> <li>according to UL</li> <li>Type: Class RK5 / K5, max. 125 A; Iq = 5 kA</li> </ul>	— usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 125 A; Iq = 5 kA

<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 125 A; Iq = 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. 125 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. 125 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul><li>at 200/208 V at 50 °C rated value</li></ul>	7.5 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	10 hp
<ul><li>at 460/480 V at 50 °C rated value</li></ul>	20 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	15 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	15 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	30 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	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=3RW5216-1TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5216-1TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-1TC14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5216-1TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

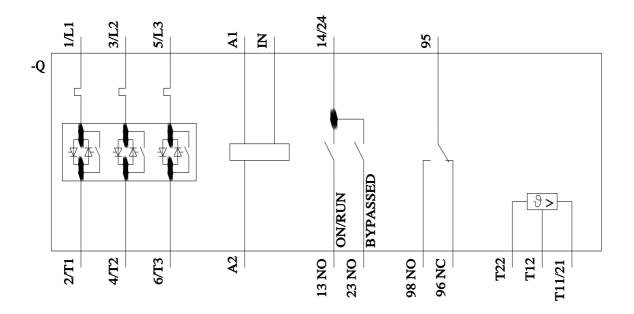
https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-1TC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5216-1TC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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



last modified: 4/10/2022 🖸