SIEMENS

Data sheet

3RW5216-1TC04



SIRIUS soft starter 200-480 V 32 A, 24 V AC/DC Screw terminals Thermistor input

waduot kwand name			
product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW52		
manufacturer's article number			
 of standard HMI module usable 	<u>3RW5980-0HS00</u>		
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>		
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>		
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>		
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>		
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>		
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>		
 of circuit breaker usable at 400 V 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4JA10: Type of coordination 1. Iq = 65 kA. CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>		
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>		
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0: Type of coordination 2. lq = 65 kA</u>		
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1; Type of coordination 2, Iq = 65 kA</u>		
General technical data			
starting voltage [%]	30 100 %		
stopping voltage [%]	50 50 %		
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 is supported			
HMI-Standard	Yes		
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		

Image: Section of point mate 100 ms Image: Section of point mate 100 ms Image: Section of point mate 000 V Section of point 3, acc, to IEC 60947.4.2. Impulse voltage of the thyristor maximum 100 V Section of point 6 kV Image: voltage resistance relad value 6 kV Image: voltage resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting Voltage resistance 17 g / 11 ms with potential contact lifting Voltage resistance 17 g / 11 ms with potential contact lifting Voltage resistance 17	buffering time in the event of power failure	-		
• for control drcuit 100 ms Insulation valage rated value 600 V degree of polution 3, acc. to IEC 60947-4-2 Impulse valage restatance rated value 6 kV blocking valage restatance rated value 6 kV array collage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 kV • botwent main and audial gricuit 600 V #botock main and audial gricuit 700 Protock function #botock main and audial gricuit 700 Protock function #botock main and audial gricuit 700 Protock function #botock main and audial gricuit		100 ms		
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degree of pollution 9, acc. to EC 60047-4-2 impulse voltage rolated value 6 kV blocking voltage of the thyristor maximum 1 600 V service factor 1 surge voltage rolated value 6 kV maximum permissible voltage for safe factoritit 600 V ebetween main and auxiliary circuit 600 V ebetween main and auxiliary circuit 600 V whore resistance 15 gr / 11 ms, from 12 g / 11 ms with potential contact lifting withstion resistance 15 gr / 11 ms, from 12 g / 11 ms with potential contact lifting withstion resistance 15 gr / 11 ms, from 12 g / 11 ms with potential contact lifting withstion category acc. to IEC 60047-4-2 AC 53a reference code acc. to IEC 60147-4-2 AC 53a reference code acc. to IEC 60147-4-2 Ves valuation clost starting) Yes • ramp-up (soft starting) Yes • auxiliary clost starting) Yes				
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maximum permissible voltage for safe isoletion 600 V * 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 Fitz; 2g to 600 Hz Utilization category acc. to EC 60947-42 AC S3a reference code acc. to EC 60947-42 AC S3a generation code acc. to EC 60947-42 AC S3a iramp-up (soft staffig) 15 02 2018 00:00:00 product function Yes • adjustable current limitation Yes • adjustable current limitation Yes • initida device protection Yes • motor overload protection Yes • audo-RESET Yes • error logbook Yes • dive software parameterizable Yes • via software parameterizable Yes • via software parameterizable Yes • via software parameterizabl		1		
maximum permissible voltage for safe isolation 600 V • between main and auxiliary circuit 600 V • between main and auxiliary circuit 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting • vitation resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting • vitation resistance 15 mm to Hz. 2g to 600 Hz • vitation resistance 0 • vitation of the vitation Yes • soft forque Yes • digitation of the mistor motor protection Yes • invide deta circuit Yes • audo-RESET Yes • ommunication function Yes • operating measured value display Yes • error logbook Yes • vis othware parameterizable No • vis othware parameterizable No • vis othware parameterizable Yes	surge voltage resistance rated value	6 kV		
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utilization category acc. to IEC 80347-42 AC 53a reference code acc. to IEC 81346-2 Q substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-up (ofinitance) (ofinitation) Yes • adjustatic current limitation Yes • adjustatic current limitation Yes • adjustatic current limitation Yes • initrinsic device protection Yes • initrinsic device protection Yes • initrinsic device protection Yes • motor overload protection Yes • indiverse TET Yes • auto-RESET Yes • manual RESET Yes • removable RESET Yes • digbook Yes; Dily in conjunction with special accessories • via software parameterizable No • removable terminal for control circuit Yes • fordiv	shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
reference code acc. to EC 81346-2 Q Substance Prohibitance (Date) 15.02.2018 00.00.00 product function Yes * ramp-up (soft starting) Yes * adjustable current limitation Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection Yes • evaluation repase	vibration resistance	15 mm to 6 Hz; 2g to 500 Hz		
Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • intrinsic device protection Yes • intrinsic device protection Yes • intrinsic device protection Yes • indivision diverse protection Yes • indivision motor protection Yes • indivision diverse protection Yes • indivision diverse protection Yes • auto-RESET Yes • annual RESET Yes • remover reset Yes • via software parameterizable No • via software configurable Yes • via software configurable Yes • removable terminal for control circuit Yes • torge control No • analog output No • analog output No • analog output Stat • firmware update Stat • forgue control Stat	utilization category acc. to IEC 60947-4-2	AC 53a		
product function ramp-up (soft starting) read-down (soft stop) read-down (so	reference code acc. to IEC 81346-2	Q		
• ramp-up (soft starting) Yes • ramp-down (seft stop) Yes • soft Torque Yes • adjustable current limitation Yes • unit risic device protection Yes • initiation device protection Yes • motor overload protection Yes • evaluation of themistor motor protection Yes, Type A PTC or Klixon / Thermoclick • inside-deta circuit Yes • auto-RESET Yes • manual RESET Yes • error logbook Yes; Only in conjunction with special accessories • error logbook Yes; Yop A Orly in conjunction with special accessories • via software parameterizable No • via software configurable Yes; only in conjunction with special accessories • via software configurable Yes; in connection with the PROFINET Standard communication module • firmware update Yes • analog output No • analog output No • at 60 °C rated value 32 A • at 60 °C rated value 26 A • at 60 °C rated value 26 A • at 60 °C rated value 45 A • at 60 °C r	Substance Prohibitance (Date)	15.02.2018 00:00:00		
• ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current timitation Yes • adjustable current timitation Yes • pump ramp down Yes • intrinsic device protection Yes. Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes. Type A PTC or Klixon / Thermoclick • inside-defla circuit Yes • auto-RESET Yes. • remote reset Yes. Jype A PTC or Klixon / Thermoclick • remote reset Yes. • operating measured value display Yes. • operating measured value display Yes. Only in conjunction with special accessories • error logbook Yes. Yonly in conjunction with special accessories • via software parameterizable No • via software parameterizable No • via software parametrizable Yes • torque control No • analog output No • at 40 °C rated value 32 A • at 60 °C rated value 26 A • at 60 °C rated value	product function			
• Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • initrinsic device protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Type A PTC or Klixon / Thermoclick • auto-RESET Yes • ananual RESET Yes, Dy turning off the control supply voltage • communication function Yes, Only in conjunction with special accessories • operating measured value display Yes, Only in conjunction with special accessories • via software parameterizable No • via software parameterizable No • via software parameterizable No • removable terminal for control circuit Yes • firmware update Yes • torque control No • analog output No Power Electronics 28 A • at 60 °C rated value 20 480 V • at 60 °C rated value 2	 ramp-up (soft starting) 	Yes		
• adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Type A PTC or Klixon / Thermoclick • inside-defla circuit Yes • auto-RESET Yes • manual RESET Yes • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software configurable Yes • via software parameterizable No • via software parameterizable Yes • trape control No • analog output No Power Electronics 22 A • at 40 °C rated value 22 A • at 60 °C rated value 26 A • operating value 45 A • operating value 45 A • erated value 20 M • at 60 °C rated value 26 M • at 60 °C rated value 45 M • at 60 °C rated value 45 M • at 60 °C rated value 45 M • at 60 °C rated value<	 ramp-down (soft stop) 	Yes		
• pump ramp down Yes • intrinside device protection Yes • motor overload protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes; Type A PTC or Klixon / Thermoclick • inside-detta circuit Yes • auto-RESET Yes • manual RESET Yes • erente reset Yes; Duly in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; Iony in conjunction with special accessories • torque control Yes; Iony in conjunction with special accessories • via software configurable Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • at 40 °C rated value 32 A • at 50 °C rated value 28 A • at 60 °C rated value 26 A operational current 45 A • at 60 °C rated value 26 A operation govitage 15 % • rated value 26 A • at 60 °C rated value 45 A • at 60 °C rated value 45 A <t< td=""><th>Soft Torque</th><td>Yes</td></t<>	Soft Torque	Yes		
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• inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • emotior exect Yes, By turning off the control supply voltage • communication function Yes, Only in conjunction with special accessories • error togbook Yes, Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • PROFlenergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes • error voxble terminal for control circuit Yes • orque control No • analog output No Power Electronics 22 A operational current 32 A • at 60 °C rated value 26 A • at 60 °C rated value 26 A • at 60 °C rated value 45 A • operational current 44 0 °C rated value • at 60 °C rated value 45 A • at 60 °C rated value 45 A operating voltage 200 480 V • at 60 °C rated value 200 480 V <	 motor overload protection 			
• auto-RESET Yes • manual RESET Yes • remote reset Yes, By turning off the control supply voltage • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • Ves No • removable terminal for control circuit Yes • firmware update Yes • removable terminal for control circuit Yes • analog output No • or ated value 32 A • at 50 °C rated value 22 A • at 60 °C rated value 25 A • at 60 °C rated value 45 A • at 60 °C rate				
• manual RESET Yes • remote reset Yes, By turning off the control supply voltage • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • PROFInergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • forque control No • analog output No Power Electronics 28 A • at 40 °C rated value 28 A • at 60 °C rated value 26 A • operating voltage 45 A • at 60 °C rated value 45 A • at 60 °C rated value <td< th=""><th> inside-delta circuit </th><th colspan="2"></th></td<>	 inside-delta circuit 			
• remote reset Yes; By turning off the control supply voltage • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • error togbook Yes; Only in conjunction with special accessories • via software parameterizable 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 22 A • at 60 °C rated value 22 A • at 60 °C rated value 22 A • at 60 °C rated value 49 A • at 50 °C rated value 49 A • at 50 °C rated value 45 A • at 60 °C rated value 20 480 V • at 60 °C rated value 20 480 V • at 60 °C rated value 10 % • rated value 10 %	auto-RESET			
• communication function Yes • operating measured value display Yes: Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; in connection with the PROFINET Standard communication module • firmware update Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • torque control No • analog output No Powor Electronics Operational current • at 40 °C rated value 26 A • at 50 °C rated value 26 A • at 50 °C rated value 49 A • at 50 °C rated value 45 A • at 60 °C rated value 45 A • at 60 °C rated value 200 480 V • at 60 °C rated value 200 480 V • at inside-delta circuit rated value 200 480 V • at inside-delta circuit roted value 15 % • relative positive tolerance of the operating voltage 15 % • relative positive tolerance of the operating voltage 15 % • relative positive tolerance of the operating voltage at inside-delta circuit 15 %	manual RESET			
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• analog output No Power Electronics operational current 32 A • 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 55.4 A • at 50 °C rated value 49 A • at 60 °C rated value 45 A • at 60 °C rated value 45 A operating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 215 % relative negative tolerance of the operating voltage 10 % relative positive tolerance of the operating voltage at inside-delta circuit -15 % relative positive tolerance of the operating voltage at inside-delta circuit 10 %				
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• at inside-delta circuit rated value 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 inside-delta circuit -15 % relative positive 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 10 %		200 480 V		
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relative negative tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors10 %				
inside-delta circuit operating power for 3-phase motors	relative negative tolerance of the operating voltage at			
	inside-delta circuit	10 %		
• at 230 V at 40 °C rated value 7.5 kW				
	• 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 400 C rated value 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	23.6 A
 at rotary coding switch on switch position 10 	24.8 A
• at rotary coding switch on switch position 11	26 A
at rotary coding switch on switch position 12	27.2 A
• at rotary coding switch on switch position 13	28.4 A
at rotary coding switch on switch position 14	29.6 A
• at rotary coding switch on switch position 15	30.8 A
 at rotary coding switch on switch position 16 	32 A
• minimum	14 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	24.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	26.3 A
 for inside-delta circuit at rotary coding switch on switch position 3 	28.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	30.5 A
 for inside-delta circuit at rotary coding switch on switch position 5 	32.6 A
 for inside-delta circuit at rotary coding switch on switch position 6 	34.6 A
• for inside-delta circuit at rotary coding switch on switch position 7	36.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 	38.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 10 	43 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	45 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	47.1 A 49.2 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	49.2 A 51.3 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	53.3 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	55.4 A
 switch position 16 at inside-delta circuit minimum 	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 60 °C after startup	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/DC			
control supply voltage at AC				
• at 50 Hz rated value	24 V			
at 60 Hz rated value	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	10 %			
voltage frequency				
control supply voltage				
at DC rated value	24 V			
relative negative tolerance of the control supply voltage at DC	-20 %			
relative positive tolerance of the control supply voltage at DC	20 %			
control supply current in standby mode rated value	160 mA			
holding current in bypass operation rated value	360 mA			
locked-rotor current at close of bypass contact maximum	0.75 A			
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			
Inputs/ Outputs				
number of digital inputs	1			
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick			
number of digital outputs	3			
not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	0			
switching capacity current of the relay outputs				
 at AC-15 at 250 V rated value 	3 A			
 at DC-13 at 24 V rated value 	1 A			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	275 mm			
width	170 mm			
depth				
required spacing with side-by-side mounting				
• forwards	10 mm			
backwards	0 mm			
• upwards	100 mm			
downwards	75 mm			
at the side	5 mm			

weight without packaging	2.3 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for control circuit	screw-type terminals		
wire length for thermistor connection			
• with conductor cross-section = 0.5 mm ² maximum	50 m		
 with conductor cross-section = 1.5 mm² maximum 	150 m		
 with conductor cross-section = 2.5 mm² maximum 	250 m		
type of connectable conductor cross-sections			
 for main contacts 			
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)		
 finely stranded with core end processing 	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)		
 at AWG cables for main current circuit solid 	2x (16 12), 2x (14 8)		
type of connectable conductor cross-sections			
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
processing	4. (20 4.2) 2. (20 4.4)		
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)		
wire length	200 m		
between soft starter and motor maximum	800 m		
at the digital inputs at AC maximum	100 m		
at the digital inputs at DC maximum	1 000 m		
tightening torque	2 2.5 N·m		
 for main contacts with screw-type terminals for auxiliary and control contacts with acrow type 	2 2.5 N·m 0.8 1.2 N·m		
 for auxiliary and control contacts with screw-type terminals 	0.0 1.2 N°III		
tightening torque [lbf·in]			
 for main contacts with screw-type terminals 	18 22 lbf·in		
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in		
terminals			
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or		
during storage and transport	above		
during storage and transport	-40 +80 °C		
 environmental category during operation acc. to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt		
	mist), 3S2 (sand must not get into the devices), 3M6		
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must		
	not get inside the devices), 1M4		
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
 of circuit breaker 			
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA		
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA		
 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA		

— 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			
— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; lq = 5 kA				
 of the fuse 						
 usable for Standard Faults up to 575/600 V according to UL 		Type: Class RK5 / K5, max. 125 A; lq = 5 kA				
— usable for according to	High Faults up to 575/600 UL) V	Type: Class J / L, max. 125 A; Iq = 100 kA			
	⁻ Standard Faults at inside 575/600 V according to UL		Type: Class RK5 / K5, max. 125 A; lq = 5 kA			
	High Faults at inside-delt	a circuit up	Type: Class J / L, max. 125 A; Iq = 100 kA			
operating power [hp	o] for 3-phase motors					
• at 200/208 V a	t 50 °C rated value		7.5 hp			
• at 220/230 V a	t 50 °C rated value		10 hp			
• at 460/480 V a	t 50 °C rated value		20 hp			
• at 200/208 V a value	• at 200/208 V at inside-delta circuit at 50 °C rated		15 hp			
● at 220/230 V a value	 at 220/230 V at inside-delta circuit at 50 °C rated value 		15 hp			
● at 460/480 V a value	t inside-delta circuit at 50	°C rated	30 hp			
contact rating of au	contact rating of auxiliary contacts according to UL		R300-B300			
Safety related data						
protection class IP on the front acc. to IEC 60529		IP20				
	the front acc. to IEC 60		finger-safe, for vertical contact from the front			
electromagnetic compatibility		in accordance with IEC 60947-4-2				
Certificates/ approval	ls					
					Declaration of	
General Product Ap	oproval			EMC	Conformity	
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CSA	ccc	UL		RCM	EG-Konf.	
Test Certificates	Marine / Shipping					
Type Test Certific- ates/Test Report			Llouds		And and a state of the state of	
ales/Test Report			Régister		DNV-GL	
	ABS	BUREAU	LRS	PRS	DAVOL COM/AP	
		VERITAS				
other						
Confirmation						

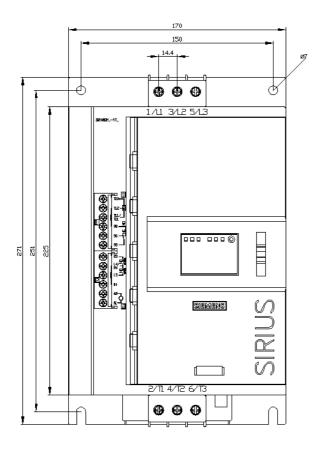
Confirmation

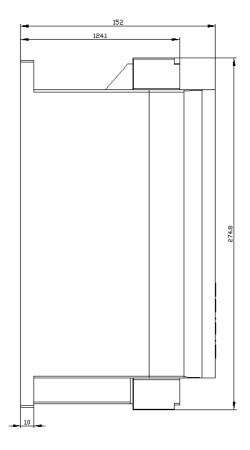
Further information
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5216-1TC04
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5216-1TC04
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-1TC04
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)

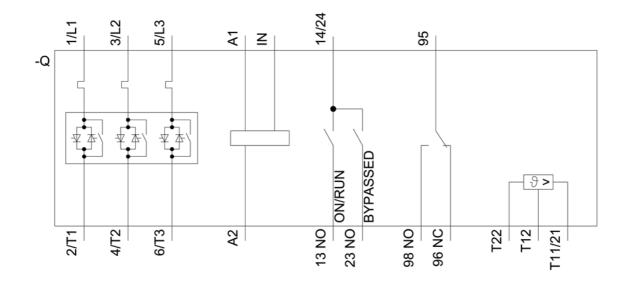
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5216-1TC04&lang=en Characteristic: Tripping characteristics, l²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5216-1TC04/char Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5216-1TC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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