SIEMENS

Data sheet

3RW5214-3TC05



SIRIUS soft starter 200-600 V 18 A, 24 V AC/DC spring-type terminals Thermistor input

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 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	3RV2032-4DA10; Type of coordination 1, Iq = 15 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3820-6: Type of coordination 1. Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1802-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8020-1; Type of coordination 2, Iq = 65 kA</u>			
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				
HMI-High Feature	No			
• is supported HMI-Standard	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				
• ramp-down (soft stop)	Yes				
Soft Torque	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-delta circuit	Yes				
● 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				
• error logbook	Yes; Only in conjunction with special accessories				
via software parameterizable	No				
via software configurable	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard communication				
(internetionally)	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	18 A				
• at 50 °C rated value	16 A				
• at 60 °C rated value	14 A				
operational current at inside-delta circuit					
at 40 °C rated value	31.5 A				
at 50 °C rated value	28 A				
at 50 °C rated value at 60 °C rated value	23.9 A				
operating voltage	20.0 M				
rated value	200 600 V				
 rated value at inside-delta circuit rated value 	200 600 V				
	-15 %				
relative negative tolerance of the operating voltage					
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	10 %				
inside-delta circuit					
operating power for 3-phase motors					
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• for inside-delta circuit at rotary coding switch on switch position 16 31.2 A • at inside-delta circuit minimum 13 A minimum load [%] 15 %; Relative to smallest settable le	 for inside-delta circuit at rotary coding switch on 	30 A
• at inside-delta circuit minimum 13 A minimum load [%] 15 %; Relative to smallest settable le	 for inside-delta circuit at rotary coding switch on 	31.2 A
minimum load [%] 15 %; Relative to smallest settable le		13 A
	power loss [W] for rated value of the current at AC	

 at 40 °C after startup 	17 W
• at 50 °C after startup	17 W
• at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	276 W
 at 50 °C during startup 	241 W
• at 60 °C during startup	200 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 voltage frequency	10 %
control supply voltage	
 at DC rated value 	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	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 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
upwards	100 mm

• at the side side side side side side side sid	downwards	75 mm
wight without packaging 2.1 kg connectional forminals type of electrical connection • for control circuit spring loaded terminals • for control circuit spring loaded terminals • with conductor cross-sections 50 m • with conductor cross-sections 50 m • for main contacts 25 mm ² pack (1.025 mm ²), 2x (2.510 mm ²) - noid 2x (1.025 mm ²), 2x (2.510 mm ²) - ning varianded with core end processing 2x (1.025 mm ²), 2x (2.510 mm ²) • for control circuit finally stranded with core end processing 2x (1.025 mm ²), 2x (2.510 mm ²) • for control circuit finally stranded with core end processing 2x (1.025 mm ²), 2x (2.510 mm ²) • for control circuit finally stranded with core end processing 2x (46) • for control circuit finally stranded with core end processing 2x (215 mm ²) • for control circuit finally stranded with core end processing 2x (215 mm ²) • at AWC cables for control circuit finally stranded with core end processing 2x (215 mm ²) • for rain contacts with screw-type terminals 600 m • for auxilary and control contacts with screw-type terminals 600 m • for auxilary and control contacts with screw-type terminals 5.000 m; Denating as of 1000 m, see catalog • for auxilary and control contacts with screw-type		
Consistent of terminals Type of electrical connection • for main current dirout • with conductor coss-sections • for main current dirout • with conductor coss-sections • for main current dirout • with conductor coss-sections • for main current dirout and • with conductor coss-sections • for main current dirout and • for main current dirout and • for control dirout in solid • at AWG cables for main current circuit finely stranded with core end processing • at AWG cables for control circuit finely stranded with core end processing • at well digital inputs at C maximum • at well digital inputs at C maximum • at well digital inputs at C maximum • at the digital inputs at C maximum • for main contracts with screw-type terminals • for auxiliary and contral contacts with screw-type terminals • for auxiliary and contract swith screw-type terminals • for auxiliary and contracts with screw-type terminals • for auxiliary and conthi screw type		
Type of electrical connection • for main current circuit • for main current circuit • for main current circuit • with conductor cross-section = 0.5 mm ⁺ maximum • with conductor cross-sections • for main contracts • for main contracts • added terminals • for main contracts • for main current circuit solid 2x (10 2.5 mm ⁺). 2x (2.5 10 mm ⁺) • for control circuit finally stranded with core end processing • for control circuit finally stranded with core end processing • at AWG cables for ontrol circuit finally stranded with core end processing • at AWG cables for ontrol circuit finally stranded with core end processing • at main contracts with screw-type terminals • for auxilary and cortrol contracts with screw-type terminals • for auxilary and cortrol contactis with screw-type terminals <t< td=""><td></td><td></td></t<>		
• for control circuit spring-baded terminals wire length for thermistor consellation and the conductor cross-section = 1.5 mm ² maximum 50 m • with conductor cross-sections = 2.5 mm ² maximum 50 m • for main contracts - solid - solid - solid - may stranded with core end processing 2x (10 2.5 mm ²), 2x (2.5 10 mm ²) • for main contracts - solid - for outrol circuit solid 2x (10 2.5 mm ²), 2x (2.5 10 mm ²) • for control circuit solid 2x (10 12), 2x (14 8) type of connectable conductor cross-sections - for anot circuit solid • for control circuit fiely stranded with core end processing 2x (24 16) • at AWG cables for control circuit fiely stranded with core end processing 2x (24 16) wire length • between soft starter and motor maximum 300 m • at the digital inputs at Comaximum 100 m • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacto with screw-type terminals <td< td=""><td></td><td></td></td<>		
wite length for thermistor connection 50 m • with conductor cross-section = 0.5 mm* maximum 50 m • with conductor cross-section = 2.5 mm* maximum 260 m * yeth conductor cross-sections 15 mm* maximum • for main contacts 260 m - solid 280 m - solid 28 (1.0 2.5 mm*), 2x (2.5 10 mm*) - for ontrol circuit fiely stranded with core end processing 2x (1.0 2.5 mm*), 2x (2.5 10 mm*) • for control circuit fiely stranded with core end processing 2x (2.2 1.5 mm*) • for control circuit fiely stranded with core end processing 2x (2.2 1.5 mm*) • at AWG cables for control circuit fiely stranded with core end processing 2x (2.4 16) • at AWG cables for control circuit fiely stranded with core end processing 2x (2.4 16) • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 6 for auxiling and control contacts with screw-type terminals • for main contacts with screw-type terminals 18 22 lbf in • for mainicontacts with screw-type terminals 18 22 lbf	for main current circuit	screw-type terminals
• w Th conductor cross-section = 1.5 mm ³ maximum 50 m • with conductor cross-section = 2.5 mm ³ maximum 150 m • yet of connectable conductor cross-sections • (or main contacts) • for main contacts 2x (1.02.5 mm ³), 2x (2.510 mm ³) • adWG cables for main current circuit sold 2x (1.02.5 mm ³), 2x (2.510 mm ³) • et adWG cables for main current circuit sold 2x (1.02.5 mm ³), 2x (2.510 mm ³) • for oration circuit sold 2x (2.51.5 mm ³) • for oratio circuit finely stranded with core end processing 2x (0.251.5 mm ³) • at AWG cables for control circuit finely stranded with core end processing 2x (2.416) • at AWG cables for control circuit finely stranded with core end processing 2x (2.416) • at the digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 6.000 m; Derating as of 1000 m; see catalog • for main contacts with screw-type terminals 6.000 m; Derating as of 1000 m; see catalog • for mains thore set in the digital puts at AC maximum 5.000 m; Derating as of 1000 m; see catalog • during operation 2.2	 for control circuit 	spring-loaded terminals
• with conductor grass-section = 2.5 mm ² maximum 25 m • for main contacts 2x (10 2.5 mm ²), 2x (2.5 10 mm ³) • a dAWG cables for main current circuit solid 2x (10 2.5 mm ³), 2x (2.5 60 mm ³) • et AWG cables for main current circuit solid 2x (10 2.5 mm ³), 2x (2.5 60 mm ³) • for control circuit finely stranded with core and processing 2x (10 2.5 mm ³), 2x (2.5 60 mm ³) • for control circuit finely stranded with core and processing 2x (2.2 1.5 mm ³) • et AWG cables for control circuit finely stranded with core and processing 2x (2.4 16) • et at WG cables for control circuit finely stranded with core end processing 2x (2.4 16) • et at digital inputs at AC maximum 800 m • at the digital inputs at AC maximum 100 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 0.8 12 N·m • for auxiliary and control control strats with screw-type terminals 18 22 lbfin • for auxiliary and control control with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • for auxiliary and control control with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • for auxiliary and control contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog • for auxiliary and control contacts with screw-type terminals 5 000 m; Derat	wire length for thermistor connection	
• with conductor cross-section = 250 m type of connectable conductor cross-sections - solid solid 2x (1.02.5 mm?), 2x (2.510 mm²) solid 2x (1.02.5 mm²), 2x (2.56.0 mm²)	 with conductor cross-section = 0.5 mm² maximum 	50 m
type of connectable conductor cross-sections • for main contacts	 with conductor cross-section = 1.5 mm² maximum 	150 m
• for main contacts	• with conductor cross-section = 2.5 mm ² maximum	250 m
	type of connectable conductor cross-sections	
	 for main contacts 	
• at AWG cables for main current circuit solid 2x (16 12), 2x (14 8) type of connectable conductor cross-sections 9. • for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) • at AWG cables for control circuit solid 2x (24 16) • at AWG cables for control circuit finely stranded with core end processing 2x (24 16) • et at WG cables for control circuit finely stranded with core end processing 2x (24 16) • et at will cables for control circuit finely stranded with core end processing 2x (24 16) • et at will cables for control circuit finely stranded with core end groups strain 300 m • et at will cables for control circuit finely stranded with core end groups strain 100 m • et at will and control contacts with screw-type terminals 2 2.5 N m • for auxiliary and control contacts with screw-type terminals 18 22 lbfin • for auxiliary and control contacts with screw-type terminals 5 000 m. Derating as of 1000 m, see catalog installation atitude at height above sea level maximum 5 000 m. Derating as of 1000 m, see catalog installation atitude at height above sea level maximum 5 000 m. Derating as of 1000 m, see catalog installation atitude at height above sea level maximum 5 000 m. Derating as of 1000 m, see catalog		
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• for control circuit solid 2x (0.25 1.5 mm²) • or control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) • et XWG cables for control circuit finely stranded with core end processing 2x (24 16) • et AWG cables for control circuit finely stranded with core end processing 2x (24 16) • et AWG cables for control circuit finely stranded with core end processing 2x (24 16) • et a digital inputs at AC maximum 800 m • et the digital inputs at AC maximum 1000 m • et the digital inputs at AC maximum 1000 m • or auxiliary and control contacts with screw-type terminals 2 2.5 N·m • for auxiliary and control contacts with screw-type terminals 18 22 lbrin • for auxiliary and control contacts with screw-type terminals 5 000 m; Derating as of 1000 m, see catalog Installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage according to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1M4 • during storage according to IEC 60721 2K2, 221, 221, 221, 224, 224, 224, 224, 22		2x (16 12), 2x (14 8)
• for control circuit finely stranded with core end processing 2x (0.25 1.5 mm²) • et AWG cables for control circuit solid 2x (24 16) • et AWG cables for control circuit finely stranded with core end processing 2x (24 16) • wire length 800 m • et the digital inputs at AC maximum 800 m • et the digital inputs at AC maximum 100 m • et the digital inputs at AC maximum 100 m • et the digital inputs at AC maximum 100 m • of main contacts with screw-type terminals 2 2.5 N m • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • for axiliary and control contacts with screw-type terminals 7 1.3 lbf in • during operation 25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during tarasport according to IEC 60721 3K6 (no ice formation, o		
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• between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • at the digital inputs at DC maximum 1000 m • tightening torque 2 2.5 N m • for main contacts with screw-type terminals 2 2.5 N m • for auxiliary and control contacts with screw-type terminals 88 1.2 N m • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • for auxiliary and control contacts with screw-type terminals 18 22 lbf:in • during operation -5 000 m; Derating as of 1000 m, see catalog • ambient temperature -40 +80 °C • during storage and transport -40 +80 °C • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to	core end processing	2x (24 16)
• at the digital inputs at AC maximum 100 m • at the digital inputs at DC maximum 1000 m tightening torque 1000 m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 18 1.2 N m • for main contacts with screw-type terminals 18 22 lbf in • for maxiliary and control contacts with screw-type terminals 18 22 lbf in Ambient conditions 7 10.3 lbf in Installation altitude at height above sea level maximum above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -0 during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EMC emitted interference acc. to IEC 60947.4-2; Class A Communication Module Is support		
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• for main contacts with screw-type terminals 18 22 lbf in • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf in Ambient conditions 5 000 m; Derating as of 1000 m, see catalog ambient temperature - 25 + 60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C environmental category • during storage according to IEC 60721 • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Communication Module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes • PROFIBUS Yes • PROFIBUS Yes • Imaufacturer's article number Yes • of circuit breaker Yes • Distreaker Yes <td>terminals</td> <td>0.8 1.2 N·M</td>	terminals	0.8 1.2 N·M
• for auxiliary and control contacts with screw-type terminals 7 10.3 lbf in Ambient conditions 5 000 m; Derating as of 1000 m, see catalog installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • EMC emitted interference acc. to IEC 60947-4-2: Class A Communication Module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • PROFIBUS Yes		
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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 storage according to IEC 60721 • during transport according to IEC 60721 • BC emitted interference • Communication Module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS Yes • Modbus TCP • PROFIBUS Yes • Duries article number • of circuit breaker - usable for Standard Faults at 460/480 V	, , , , , , , , , , , , , , , , , , , ,	7 10.3 Ibt In
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation according 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 according to IEC 60721 3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • BMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • PROFIBUS Yes • anufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		
ambient temperature -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • during storage and transport -40 +80 °C • during operation according 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 according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • BMC emitted interference acc. to IEC 60947-4-2: Class A Communication module is supported Yes • EtherNet/IP Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • PROFIBUS Yes • Droperation module is at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		5 000 m; Derating as of 1000 m, see catalog
• during storage and transport -40 +80 °C • environmental category • during operation according to IEC 60721 • during storage according 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 according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Communication/ Protocol acc. to IEC 60947-4-2: Class A Communication module is supported • PROFINET standard • PROFINET standard Yes • Modbus RTU Yes • Modbus RTU Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number • yes (SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		,
• during storage and transport -40 +80 °C • environmental category • during operation according to IEC 60721 • during storage according 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 according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Communication/ Protocol acc. to IEC 60947-4-2: Class A Communication module is supported • PROFINET standard • PROFINET standard Yes • Modbus RTU Yes • Modbus RTU Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number • yes (SRV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
environmental category during operation according to IEC 60721 during storage according to IEC 60721 during storage according to IEC 60721 K6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during storage according to IEC 60721 K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during transport according 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 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		
• during operation according to IEC 607213K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during storage according to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4• during transport according to IEC 607212K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)• EMC emitted interferenceacc. to IEC 60947-4-2: Class ACommunication Protocolcommunication module is supported • PROFINET standardYes• Modbus RTU • Modbus TCP • PROFIBUSYes• DROFIBUSYesUL/CSA ratingsYesmanufacturer's article number • of circuit breaker • usable for Standard Faults at 460/480 VSiemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA		-40 +80 °C
mist), 3S2 (sand must not get into the devices), 3M6 • during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport according 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 • Modbus RTU • Modbus TCP • PROFIBUS Yes UL/CSA ratings manufacturer's article number • of circuit breaker - usable for Standard Faults at 460/480 V		
• during transport according 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 • DROFIBUS Yes • DROFIBUS Yes • DROFIBUS Yes • Modbus TCP Yes • PROFIBUS Yes • DROFIBUS Yes	 during operation according to IEC 60721 	mist), 3S2 (sand must not get into the devices), 3M6
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard Yes • EtherNet/IP • Modbus RTU • Modbus RTU Yes • Modbus TCP • PROFIBUS Yes UL/CSA ratings manufacturer's article number • of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	 during storage according to IEC 60721 	
Communication/ Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	during transport according to IEC 60721	
communication module is supported Yes • PROFINET standard Yes • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes manufacturer's article number of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	EMC emitted interference	acc. to IEC 60947-4-2: Class A
 PROFINET standard PROFINET standard EtherNet/IP Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	Communication/ Protocol	
• EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes • DROFIBUS Yes • Dt/CSA ratings Yes • of circuit breaker For Circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	communication module is supported	
 Modbus RTU Yes Modbus TCP PROFIBUS Yes UL/CSA ratings UL/CSA raticle number • of circuit breaker - usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; Iq = 5 kA	 PROFINET standard 	Yes
Modbus TCP Yes Yes Yes VL/CSA ratings UL/CSA raticle number of circuit breaker — usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	EtherNet/IP	Yes
PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		Yes
of circuit breaker — usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA	UL/CSA ratings	
- usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 60 A or 3VA51, max. 60 A; lq = 5 kA		
	according to UL	
 usable for High Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA 	8 8	

— usable for Standard Faults at 460	(490 \/ at	Sigmons type: 2	DV/2742 may 6	$0 \wedge \text{or } 2 \setminus (\wedge 51 \text{ m})$	$x = 60 A \cdot la = 5 kA$
inside-delta circuit according to UL	1400 V al	Siemens type. 3	rv2742, 111dX. 0	0 A 01 3VA51, 112	ax. 60 A; lq = 5 kA
 — usable for High Faults at 460/480 delta circuit according to UL 	V at inside-	Siemens type: 3	VA51, max. 35 A	A; lq max = 65 kA	
 — usable for Standard Faults at 575 according to UL 	/600 V	Siemens type: 3	RV2742, max. 6	0 A or 3VA51, ma	ax. 60 A; Iq = 5 kA
— usable for Standard Faults at 575 inside-delta circuit according to UL	/600 V at	Siemens type: 3	RV2742, max. 6	0 A or 3VA51, ma	ax. 60 A; lq = 5 kA
of the fuse	575/600 V	Type: Class PK	5/K5 may 70 A	$\cdot a - 5 k $	
— usable for Standard Faults up to 5 according to UL			5 / K5, max. 70 A		
 — usable for High Faults up to 575/6 according to UL 	500 V	Type: Class J /	L, max. 70 A; Iq =	= 100 KA	
 usable for Standard Faults at inside circuit up to 575/600 V according to 		Type: Class RK	5 / K5, max. 70 A	x; lq = 5 kA	
 usable for High Faults at inside-de to 575/600 V according to UL 	elta circuit up	Type: Class J /	_, max. 70 A; Iq =	= 100 kA	
operating power [hp] for 3-phase motors					
 at 200/208 V at 50 °C rated value 		3 hp			
 at 220/230 V at 50 °C rated value 		5 hp			
 at 460/480 V at 50 °C rated value 		10 hp			
 at 575/600 V at 50 °C rated value 		10 hp			
• at 200/208 V at inside-delta circuit at 5 value		7.5 hp			
at 220/230 V at inside-delta circuit at 5 value		7.5 hp			
at 460/480 V at inside-delta circuit at 5 value		20 hp			
at 575/600 V at inside-delta circuit at 5 value		25 hp			
contact rating of auxiliary contacts accord	ding to UL	R300-B300			
Safety related data			_	_	
protection class IP on the front according 60529	to IEC	IP20			
	DIEC 60529	finger-safe, for v	vertical contact fro	om the front	
touch protection on the front according to electromagnetic compatibility	DIEC 60529	-	vertical contact fro vith IEC 60947-4-		
touch protection on the front according to	o IEC 60529	-			_
touch protection on the front according to electromagnetic compatibility	DIEC 60529	-			EMC
touch protection on the front according to electromagnetic compatibility Certificates/ approvals	DIEC 60529	-			EMC
touch protection on the front according to electromagnetic compatibility Certificates/ approvals	DIEC 60529	in accordance v			EMC
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touch protection on the front according to electromagnetic compatibility Certificates/ approvals		in accordance v			EMC EMC
touch protection on the front according to electromagnetic compatibility Certificates/ approvals		in accordance v			EMC EMC RCM
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touch protection on the front according to electromagnetic compatibility Certificates/ approvals General Product Approval		in accordance v	vith IEC 60947-4-		EMC ECC RCM
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Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5214-3TC05$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5214-3TC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-3TC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5214-3TC05&lang=en</u>

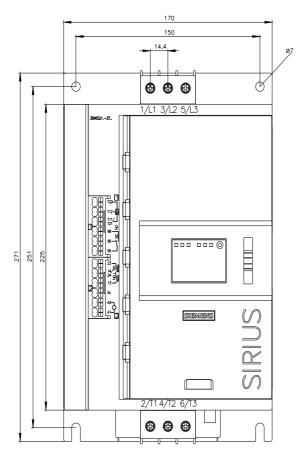
Characteristic: Tripping characteristics, I²t, Let-through current

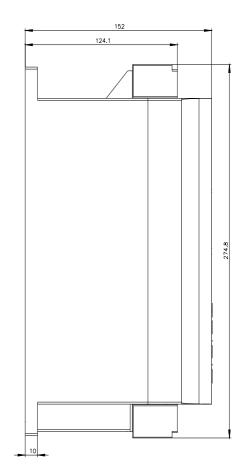
https://support.industry.siemens.com/cs/ww/en/ps/3RW5214-3TC05/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5214-3TC05&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 🖸