SIEMENS

Data sheet 3RW5213-1TC04



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC 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	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4DA10; Type of coordination 1, Iq = 18 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 	3NA3820-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1815-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8017-1; Type of coordination 2, Iq = 65 kA
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 %

trip class

certificate of suitability
• CE marking

UL approval

CSA approval

• HMI-Standard

• HMI-High Feature

number of controlled phases

product component is supported

product feature integrated bypass contact system

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

Yes

Yes

Yes

Yes

Yes

Yes

hoffester Atres to the	
buffering time in the event of power failure	400
• 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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
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 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 	13 A
at 50 °C rated value	12 A
• at 60 °C rated value	11 A
operational current at inside-delta circuit	
at 40 °C rated value	22.5 A
at 50 °C rated value	19.9 A
at 60 °C rated value	18.2 A
operating voltage	
• 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	-15 %
inside-delta circuit	10 /0
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	3 kW

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at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
at 400 V at 40 °C rated value	5.5 kW
at 400 V at inside-delta circuit at 40 °C rated value	11 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	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 	5.5 A
 at rotary coding switch on switch position 2 	6 A
 at rotary coding switch on switch position 3 	6.5 A
 at rotary coding switch on switch position 4 	7 A
 at rotary coding switch on switch position 5 	7.5 A
 at rotary coding switch on switch position 6 	8 A
 at rotary coding switch on switch position 7 	8.5 A
 at rotary coding switch on switch position 8 	9 A
 at rotary coding switch on switch position 9 	9.5 A
 at rotary coding switch on switch position 10 	10 A
 at rotary coding switch on switch position 11 	10.5 A
 at rotary coding switch on switch position 12 	11 A
 at rotary coding switch on switch position 13 	11.5 A
 at rotary coding switch on switch position 14 	12 A
 at rotary coding switch on switch position 15 	12.5 A
 at rotary coding switch on switch position 16 	13 A
• minimum	5.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	9.5 A
 for inside-delta circuit at rotary coding switch on switch position 2 	10.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	11.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	12.1 A
 for inside-delta circuit at rotary coding switch on switch position 5 	13 A
 for inside-delta circuit at rotary coding switch on switch position 6 	13.9 A
 for inside-delta circuit at rotary coding switch on switch position 7 	14.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 	15.6 A
 for inside-delta circuit at rotary coding switch on switch position 9 	16.5 A
 for inside-delta circuit at rotary coding switch on switch position 10 	17.3 A
for inside-delta circuit at rotary coding switch on switch position 11	18.2 A
for inside-delta circuit at rotary coding switch on switch position 12 for inside delta significant paters and in a switch on	19.1 A
for inside-delta circuit at rotary coding switch on switch position 13	19.9 A
for inside-delta circuit at rotary coding switch on switch position 14	20.8 A
for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on	21.7 A
for inside-delta circuit at rotary coding switch on switch position 16 at inside delta circuit reinimum	22.5 A
at inside-delta circuit minimum	9.5 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	16 W
• at 40 °C after startup	16 W
• at 50 °C after startup	15 W
at 60 °C after startup	15 W

power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	210 W
 at 50 °C during startup 	178 W
at 60 °C during startup	161 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
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	+/- 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
downwards	75 mm
• at the side	5 mm

Somewhype terminals sorewhype terminals sorewh	weight without packaging	2.1 kg
For main current circuit For central circuit Wire length for thermistor connection With conductor cross-section > 1.5 mm² maximum With conductor cross-section > 2.5 mm² maximum With conductor cross-sections For main contacts For control circuit solid For control circuit		
• for control drout wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-sections • with conductor cross-sections • for main contacts - solid • finely stranded with core end processing • at AWG cables for main current circuit solid 1/pre of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for main current circuit solid 1/pre of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid 1/pre of connectable control circuit solid • for control circuit solid • for control circuit solid 1/pre of connectable control circuit solid • for control circuit solid 1/pre of connectable control circuit solid 1/pre of connectable solid so	type of electrical connection	
wire length for thermistor connection • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum * with conductor cross-section = 2.5 mm² maximum • of main contacts • for main contacts • for main current circuit solid * type of connectable conductor cross-sections • for control circuit solid * type of connectable conductor cross-sections • for control circuit solid * of control circuit solid * of or control circuit solid * of or control circuit solid * of control circuit solid * of control circuit solid * of type of connectable conductor cross-sections • for control circuit solid * of type of connectable of type solid s		screw-type terminals
with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum yew of connectable conductor cross-sections	for control circuit	screw-type terminals
with conductor cross-section = 1.5 mm² maximum vith conductor cross-sections vito main contacts vito conductor cross-sections vito control circuit solid vito control circuit soli	wire length for thermistor connection	
• with conductor cross-section = 2.5 mm² maximum 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 control circuit finely stranded with core end processing • at AWG cables for control circuit solid wire length • obetween soft stater and motor maximum • at the digital inputs at DC maximum • at the digital part of a DC maximum • at the digital inputs at D	 with conductor cross-section = 0.5 mm² maximum 	50 m
Section Sect	 with conductor cross-section = 1.5 mm² maximum 	150 m
• for main contacts — 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 • for solid so	 with conductor cross-section = 2.5 mm² maximum 	250 m
solid finely stranded with core end processing • at AWG cables for main current circuit solid type of connectable conductor cross-sections • 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 wire length • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for fine control control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaginy and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control contacts with screw-type terminals • for availaging and control terminals • for availaging and control termina	type of connectable conductor cross-sections	
- Anely stranded with core end processing	for main contacts	
	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
a A AWG cables for main current ricruit solid type of connectable conductor cross-sections of corontrol circuit solid of 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 of the variety of the v	 finely stranded with core end processing 	
type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at Wise length • between soft starter and motor maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • 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 for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts		
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid **vire length* • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type • for auxillary and control contacts with screw-type • during storage and transport •	type of connectable conductor cross-sections	
• for control circuit finely stranded with core end processing • at AWG cables for control circuit solid **vire length* • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxillary and control contacts with screw-type • for auxillary and control contacts with screw-type • during storage and transport •	for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
e 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 terminals • for auxiliary and control 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 auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxilia		
wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for for auxiliary and control contacts with screw-type terminals • for for auxiliary and control on the forminals and screw for auxiliary and control contacts with screw-type terminals 18 22 lbf-in 7 10.3 lbf-in 18 22 lbf-in 7 10	· · · · · · · · · · · · · · · · · · ·	
between soft starter and motor maximum at the digital inputs at AC maximum at the digital inputs at DC maximum at the digital inputs at DC maximum itghtening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type te	at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
at the digital inputs at DC maximum at the digital inputs at DC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for main contacts with screw-type terminals for main contacts with screw-type terminals for mailiary and control contacts with screw-type terminals ### About Contacts with s	wire length	
e at the digital inputs at DC maximum 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 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	 between soft starter and motor maximum 	800 m
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals * for auxiliary and control contacts with screw-type * for 0 (c) Please observe derating as of 1000 m, see catalog * for 0 (c) Please observe derating as of 1000 m, see catalog * for 0 (c) Please observe derating as of 1000 m, see catalog	 at the digital inputs at AC maximum 	100 m
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in] • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • 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 18 22 lbf-in 7 10.3 lbf-in 19 10.0 m, sec catalog 346 (no ice formation, only occasional condensation), 102 (no salt mist), 102 (no salt mist), 102 (no salt mist	at the digital inputs at DC maximum	1 000 m
• for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **This installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during storage and transport • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/Protocol **Communication module is supported** • PROFINET standard • PROFINET standard • PROFIBUS **PROFIBUS **PRO	tightening torque	
• for auxiliary and control contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **This installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage and transport • during storage and transport • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Communication/Protocol **Communication module is supported** • PROFINET standard • PROFINET standard • PROFIBUS **PROFIBUS **PRO	• for main contacts with screw-type terminals	2 2.5 N·m
tightening torque [ibf-in] • 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 acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication/ Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFISUS Modbus RTU • Res • PROFISUS Modbus RTU • PROFIGUS Modbus RTU • Modbus RTU • PROFIGUS Modbus RTU • Modbus RTU • PROFIGUS Modbus RTU • Modbus RTU • PROFIGUS Modbus RTU • Modbus RTU • PROFIGUS Modbus RTU	 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
• 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 acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication protocol communication module is supported • PROFIBUS Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS DIL/GSA 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 High Faults at 460/480 V at inside- or above 5 000 m; Derating as of 1000 m, see catalog 3 K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 18 22 lbf-in 7 10.3 lbf-in 5 000 m; Derating as of 1000 m, see catalog 3 K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C3 (so salt mist), 3S2 (sand must not get inside the devices), 3M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C3 (no salt mist), 3C2 (sand must not get inside devices), 3M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C2 (sand must not get inside devices), 3M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C3 (so salt mist), 3C2 (sand must not get inside devices), 3M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3C2 (sand must not get inside occasional condensation), 3C3 (no salt mist), 3C3 (so salt mist), 3C2 (sand must not get	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 acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Moring transport acc. to IEC 60721 EMC emitted interference communication Protocol communication module is supported • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBLS Tyes • PROFIBLS 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 High Faults at 460/480 V at inside- inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 KA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 • Muring transport acc. to IEC 60721 • PROFINET standard • PROFINET standard • PROFINET standard • PROFIBUS **Yes** • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS **PROFIBUS **DILCSA 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 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-source and a full to the devices), 1M6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 1M4 2K8 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K8 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K8 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K9 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K9 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the device	 for main contacts with screw-type terminals 	18 22 lbf·in
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport • during peration acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • 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 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 High Faults at 460/480 V at inside-side side and a 460/480 V at inside-side sid	,	7 10.3 lbf·in
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ambient temperature • during operation • during storage and transport • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during transport acc. to IEC 60721 • during transport acc. to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFIBUS PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — 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- - usable for High Faults at 460/480 V at inside- - Usable for High Faults at 460/480 V at inside- - Usable for High Faults at 460/480 V at inside-		F 000 and Departies are of 4000 and are set along
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oduring transport acc. to IEC 60721 EMC emitted interference communication / Protocol communication module is supported PROFINET standard PROFIBET standard PROFIBED Modbus RTU Modbus TCP PROFIBUS Ves 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 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 Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65		· · · · · · · · · · · · · · · · · · ·
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Communication / Protocol communication module is supported • PROFINET standard Yes • EtherNet/IP Yes • 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 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- Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65		
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 Modbus TCP PROFIBUS Yes 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 High Faults at 460/480 V at inside- Siemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; Iq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 		
 ◆ PROFIBUS UL/CSA ratings		
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manufacturer's article number		Yes
 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 Siemens type: 3RV2742, max. 40 A or 3VA51, max. 35 A; Iq max = 65 Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA 	UL/CSA ratings	
 — 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 Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-size of the same of t	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- — usable for High Faults at 460/480 V at inside- — usable for High Faults at 460/480 V at inside- Siemens type: 3RV2742, max. 30 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65		
to UL kA — 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- Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65		Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65		
		Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
	11 (11:1 = 11 1400/400 // 1: :1	

— usable for Standard Faults at 575/600 V according to UL

— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL

of the fuse

— usable for Standard Faults up to 575/600 V according to UL

— usable for High Faults up to 575/600 V according to UL

— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL

— usable for High Faults at inside-delta circuit up to 575/600 V according to UL

Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA

Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA

Type: Class RK5 / K5, max. 50 A; Iq = 5 kA

Type: Class J / L, max. 50 A; Iq = 100 kA

Type: Class RK5 / K5, max. 50 A; Iq = 5 kA

Type: Class J / L, max. 50 A; Iq = 100 kA

operating power [hp] for 3-phase motors

at 200/208 V at 50 °C rated value
at 220/230 V at 50 °C rated value
at 460/480 V at 50 °C rated value

 \bullet at 200/208 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

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

 \bullet at 460/480 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value

2 hp

3 hp

7.5 hp

5 hp

5 hp

10 hp

contact rating of auxiliary contacts according to UL

R300-B300

Safety related data

protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 electromagnetic compatibility IP20

finger-safe, for vertical contact from the front in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5213-1TC04}$

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5213-1TC04}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1TC04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1TC04&lang=en

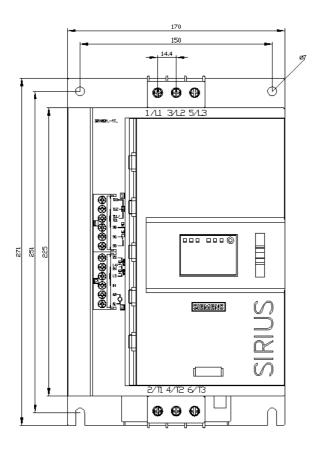
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1TC04/char

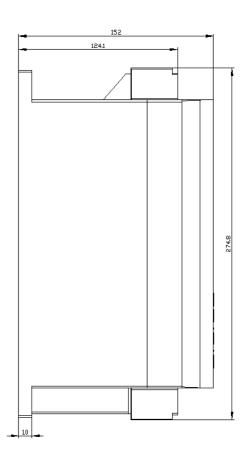
Characteristic: Installation altitude

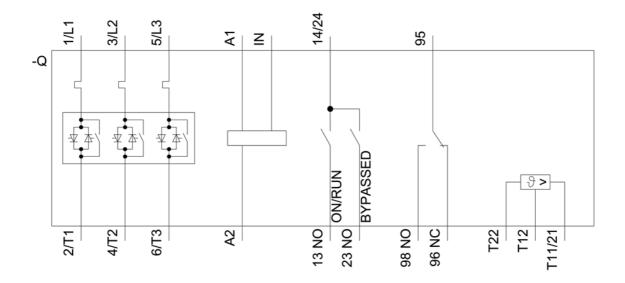
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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