SIEMENS

Data sheet

3RW5215-1TC15



SIRIUS soft starter 200-600 V 25 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 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 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1817-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8021-1; 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 %
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	2
number of controlled phases	3 CLASS 104 (default) / 105 / 205: and to JEC 60047.4.2
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	100
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
utilization category acc. to IEC 60947-4-2	AC 53a
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
reference code acc. to IEC 81346-2	Q
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 	25 A
• at 50 °C rated value	22.3 A
• at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
at 60 °C rated value	33.9 A
operating voltage	
rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative positive tolerance of the operating voltage at inside-delta circuit	
relative positive tolerance of the operating voltage at	10 %
service in the service of the operating ronage at	

inside-delta circuit	
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
 at 400 V at 40 °C rated value 	11 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	18.5 kW
 at 500 V at 40 °C rated value 	15 kW
 at 500 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 	11.5 A
 at rotary coding switch on switch position 2 	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
 at rotary coding switch on switch position 4 	14.2 A
 at rotary coding switch on switch position 5 	15.1 A
 at rotary coding switch on switch position 6 	16 A
 at rotary coding switch on switch position 7 	16.9 A
 at rotary coding switch on switch position 8 	17.8 A
 at rotary coding switch on switch position 9 	18.7 A
 at rotary coding switch on switch position 10 	19.6 A
 at rotary coding switch on switch position 11 	20.5 A
 at rotary coding switch on switch position 12 	21.4 A
• at rotary coding switch on switch position 13	22.3 A
• at rotary coding switch on switch position 14	23.2 A
at rotary coding switch on switch position 15	24.1 A
 at rotary coding switch on switch position 16 	25 A
minimum adjustable motor current	11.5 A
 for inside-delta circuit at rotary coding switch on 	19.9 A
switch position 1	10.0 A
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
 for inside-delta circuit at rotary coding switch on switch position 4 	24.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on 	29.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	30.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	32.4 A 33.9 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	35.5 A
switch position 11	37.1 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	38.6 A
 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on 	40.2 A
switch position 14	
 for inside-delta circuit at rotary coding switch on switch position 15 for inside delta circuit at rotary coding switch on 	41.7 A 43.3 A
 for inside-delta circuit at rotary coding switch on 	40.0 M

switch position 16	
at inside-delta circuit minimum	19.9 A
minimum load [%]	15.5 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	20 W
• at 50 °C after startup	19 W
• at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	376 W
• at 50 °C during startup	318 W
• at 60 °C during startup	278 W
Control circuit/ Control	21011
type of voltage of the control supply voltage	AC
control supply voltage at AC at 50 Hz	110 250 V
control supply voltage at AC at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply _voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	75 mA
locked-rotor current at close of bypass contact maximum	0.17 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
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

• at the side 5 mm weight without packaging 2.1 kg Connectional (contrast control circuit) screw-type terminals • for main current circuit) screw-type terminals • with conductor cross-section = 0.5 mm ³ maximum screw-type terminals • with conductor cross-sections 50 m • for main contract 50 m • with conductor cross-sections 50 m • for main contracts 22 (1 0 2.5 mm ³), 2x (2 5 10 mm ³) • at AWG cables for main current circuit solid 2x (1 0 2.5 mm ³), 2x (2 5 10 mm ³) • type of connectable conductor cross-sections 50 m • for control circuit solid 1x (0 5 4.0 mm ³), 2x (0 5 2.5 mm ³) • for control circuit solid 1x (0 5 4.0 mm ³), 2x (0 5 15 mm ³) • for control circuit solid 1x (2 5 40 mm ³), 2x (0 5 15 mm ³) • for control circuit solid 1x (2 5 40 mm ³), 2x (0 5 15 mm ³) • for main contracts with screw-type terminals 1x (0 5 40 mm ³), 2x (0 5 15 mm ³) • for main contracts with screw-type terminals 1x (0 5 12 mm ³) • for main contracts with screw-type terminals 1x (0 5 12 mm ³) • for main contracts with screw-type terminals 1x (0 5 12 mm ³) • for main contracts with screw-type terminals 1x (0 1 22 mm ³) • for main contracts	 downwards 	75 mm
Convections/Terminals Type of electrical connection • for main current circuit • for main current circuit • with conductor conse-section = 0.5 mm ² maximum • with conductor cross-sections • for main contacts - sold - neidd - neidd - neidd - neidd - for main contacts - neidd - for control circuit sold • for anal contacts with screw-type terminals • for main contacts with screw-type terminals		
Connections/Ferminals type of electrical connection • for main current circuit • for main current circuit • with conductor consection • with conductor cross-sections • for main contacts - anid - for main contacts - anid - for nain contacts with core end processing - it no contact isolid * for control circuit solid * to contain contact with acree-type terminals • for anian contacts with acree-type terminals • for anian contacts with acrere-type terminals		
type of electrical connection if or main current circuit if or main current circuit if control circuit screw-type terminals screw-		
• for main current drout screw-type terminals • with conductor conse-section = 0.5 mm² maximum 50 m • with conductor conse-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 220 m /ype of connectable conductor cross-sections 220 m • for main contacts - sold - sold 22 (1.0, - 2.5 mm²), 2x (2.5, - 6.0 mm²) • for control circuit finely stranded with core end processing 2x (1.0, - 2.5 mm²), 2x (2.5, - 6.0 mm²) • for control circuit finely stranded with core end processing 1x (0.5, - 2.5 mm²), 2x (2.5, - 1.5 mm²) • for control circuit finely stranded with core end processing 1x (2.0, - 12), 2x (10, - 11, 5 mm²) • for control circuit finely stranded with core end processing 1x (2.0, - 12), 2x (2.0, - 14) wire length 9 between soft starter and motor maximum 800 m • at MeQ cables for control circuit solid 1x (2.0, - 12), 2x (2.0, - 14) wire length 90 m 0.8, 12 N m • for main contacts with screw-type terminals 6, 12 N m • for main contacts with screw-type terminals 6, 12 N m • for main contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog • for main contacts with screw-type terminals 5000 m; Derating as of 1000 m, see catalog • mablent temperature during operation 22 460		
wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 250 m Ypp of connectable conductor cross-sections 50 m • for main contacts - solid - solid 22 (1.0		screw-type terminals
 with conductor cross-section = 0.5 mm³ maximum with conductor cross-section = 1.5 mm³ maximum with conductor cross-section = 2.5 mm³ maximum for main contacts a solid b solid solid a solid a solid b solid solid solid solid solid b solid solid	for control circuit	screw-type terminals
with conductor cross-section = 1.5 mm ² maximum with conductor cross-section = 2.5 mm ² maximum 250 m	wire length for thermistor connection	
• with conductor cross-sections 250 m type of connectable conductor cross-sections 50 main contacts - solid 2x (1.02.5 mm ³), 2x (2.510 mm ³) - finely stranded with core end processing 2x (1.02.5 mm ³), 2x (2.56 mm ³) • for control circuit solid 1x (0.54.0 mm ³), 2x (0.52.5 mm ³) • for control circuit solid 1x (0.54.0 mm ³), 2x (0.52.5 mm ³) • for control circuit solid 1x (0.54.0 mm ³), 2x (0.515 mm ³) • for control circuit solid 1x (2.012), 2x (2014) with length 600 m • between soft starter and motor maximum 800 m • at twd cables for control contacts with screw-type terminals 0.812 N m • for main contacts with screw-type terminals 225 N m • for auxiliary and control contacts with screw-type terminals 1025 mm ³) • 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 10	 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 sold finely stranded with core end processing 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²) 2x (1.0 2.5 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5	• with conductor cross-section = 2.5 mm ² maximum	250 m
	type of connectable conductor cross-sections	
• at AWG cables for main current circuit solid 2x (16 12), 2x (14 8) type of connectable conductor cross-sections 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit finely stranded with core end processing 1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²) • at AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length 900 m • at the digital inputs at AC maximum 900 m • of randicator and control contacts with screw-type terminals 2 2.5 N m • for auxiliary and control contacts with screw-type terminals 7 10.3 lbf.in tightening torque [lbf in] 18 22 lbf.in • for auxiliary and control contacts with screw-type terminals 5.000 m; Derating as of 1000 m, see catalog • ambient to antitude at height above sea level maximum 5.000 m; Derating as of 1000 m, see catalog • ambient to adjuit and source on to IEC 60721 3K6 (no ic formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) • Communication Protocol 2K2, C21, 2S1, 2M2 (max, fall height 0.3 m) • Communication Protocol 2K2, C21, 2S1, 2M2 (max, fall height 0.3 m) • ULOSA ratings Yes • Norobus R		
type of connectable conductor cross-sections i for control circuit finely stranded with core end processing i of control circuit finely stranded with core end processing 1x (0.5 4.0 mm ³), 2x (0.5 1.5 mm ³) i A WC cables for control circuit solid 1x (2.0 12), 2x (2.0 14) wire length e at AWC cables for control circuit solid 1x (2.0 12), 2x (2.0 14) i tightening torque 6 or auxiliary and control contacts with screw-type terminals 2 2.5 N m i for auxiliary and control contacts with screw-type terminals 8 1.2 N m i for auxiliary and control contacts with screw-type 18 22 lbfin i for auxiliary and control contacts with screw-type 7 10.3 lbf in 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 • ambient temperature during storage and transport -40 +80 °C • during storage 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 transport acc. to IEC 60721 2K2 (22, 221, 231, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2 (22, 221, 231, 2M2 (max, fall height 0.3 m) • Communication module is supported Yes		
• for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • at AWG cables for control circuit solid 1x (2 12), 2x (20 14) wire length 600 m • ebtween soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m tightening torque • or main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals 2 2.5 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 7 10.3 lbf·in 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 above • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 1S2 (sand must not get inside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m) edremutication Protocol 2K2,		2x (16 12), 2x (14 8)
• for control circuit finely stranded with core end processing 1x (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • el XWG cables for control circuit solid 1x (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) wire length • between soft starter and motor maximum 800 m • el AtWG cables for control circuit solid 1x (2 12), 2x (20 14) wire length • Botween soft starter and motor maximum 800 m • of auxiliary and control contacts with screw-type terminals 0.8 12 N·m 0.8 12 N·m tightening torque [lbf-ln] • or main contacts with screw-type terminals 18 22 lbf-in 7 10.3 lbf-in Ambient conditions 5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C • ambient temperature during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get ins the devices), 3M4 -40 +80 °C • during transport acc. 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 • PROFINET standard Yes Yes		$1 \times (0.5 \pm 4.0 \text{ mm}^2) \times (0.5 \pm 2.5 \text{ mm}^2)$
processing 1x (20 12), 2x (20 14) • et AWG cables for control circuit solid 1x (20 12), 2x (20 14) • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m • for main contacts with screw-type terminals 2 2.5 N·m • for auxiliary and control contacts with screw-type 0.8 1.2 N·m • for main contacts with screw-type terminals 18 22 lbfrin • for auxiliary and control contacts with screw-type 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in • for main contacts with screw-type terminals 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 above • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
wire length ebetween soft starter and motor maximum 800 m e of the digital inputs at AC maximum 100 m tightening torque 6 ra auxiliary and control contacts with screw-type e for main contacts with screw-type terminals 0.8 1.2 N·m of or main contacts with screw-type terminals 18 22 lbf-in of or auxiliary and control contacts with screw-type 7 10.3 lbf-in terminals 18 22 lbf-in Ambient conditions 7 10.3 lbf-in 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 above • ambient temperature during storage and transport -40 +80 °C • 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 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • dot of protocol Communication module is supported • PROFINET standard Yes • EherNet/IP Yes • Modbus RTU Yes • PROFINET standard Yes • PROFIBUS Yes • PROFIBUS		1 (0.5 2.5 mm), 28 (0.5 1.5 mm)
wire length ebetween soft starter and motor maximum 800 m e of the digital inputs at AC maximum 100 m tightening torque 6 ra auxiliary and control contacts with screw-type e for main contacts with screw-type terminals 0.8 1.2 N·m of or main contacts with screw-type terminals 18 22 lbf-in of or auxiliary and control contacts with screw-type 7 10.3 lbf-in terminals 18 22 lbf-in Ambient conditions 7 10.3 lbf-in 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 above • ambient temperature during storage and transport -40 +80 °C • 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 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • dot of protocol Communication module is supported • PROFINET standard Yes • EherNet/IP Yes • Modbus RTU Yes • PROFINET standard Yes • PROFIBUS Yes • PROFIBUS	 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
• at the digital inputs at AC maximum 100 m tightening torque • for main contacts with screw-type terminals 2 2.5 N m • for auxiliary and control contacts with screw-type 0.8 1.2 N m tightening torque [lbf:in] • for auxiliary and control contacts with screw-type 18 22 lbf in • for auxiliary and control contacts with screw-type 7 10.3 lbf in terminals 18 22 lbf in Ambient conditions 7 10.3 lbf in 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 above • ambient temperature during storage and transport -40 +80 °C • during operation acc. to IEC 60721 3K6 (no lee formation, only occasional condensation), 3C3 (no salt mis), 3S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • EMC emitted interference acc. to IEC 60974-4-2: Class A Communication / Protocol Yes • Modbus RTU Yes • PROFIBUS Yes • Modbus RTU Yes • PROFIBUS Yes • Of circuit breaker - usable for Standard Fau	wire length	
tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type tightening torque [lbf-in] for auxiliary and control contacts with screw-type tightening torque [lbf-in] for auxiliary and control contacts with screw-type terminals Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above ambient temperature during operation -25 +60 °C environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 during transport acc. to IEC 60721 to IC 60721 to IC 60721 to IC 60721 to IC 60047-4-2: Class A Communication Protocol communication Protocol communication Protocol communication Protocol Communication module is supported PROFINET standard Yes PROFIBUS Yes PROFIBUS Yes Modus RTU Yes Vu/cSA ratings manufacturer's article number of circuit breaker 	 between soft starter and motor maximum 	800 m
• for main contacts with screw-type terminals 2 2.5 N·m • for auxiliary and control contacts with screw-type terminals 0.8 1.2 N·m tightening torque [lbf·in] 0.8 1.2 N·m • for main contacts with screw-type terminals 18 22 lbf-in • for auxiliary 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 5 000 m; Derating as of 1000 m, see catalog • ambient temperature during operation -25 +60 °C • ambient temperature during storage and transport -40 +80 °C • 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 transport acc. to IEC 60721 2K2 (201, 281, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2 (201, 281, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2 (201, 281, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2 (201, 281, 2M2 (max, fall height 0.3 m) • during transport acc. to IEC 60721 2K2 (201, 281, 2M2 (max, fall height 0.3 m) • EMC emitted interference acc. to IEC 60947-4-2: Class A <	 at the digital inputs at AC maximum 	100 m
• for auxiliary and control contacts with screw-type terminals 0.8 1.2 N·m tightening torque [lof·in] 18 22 lbf·in • for auxiliary 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 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 above • ambient temperature during storage and transport -40 +80 °C environmental category oduring operation acc. to IEC 60721 • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inis the devices), 3M6 • during storage acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • DeroFINET standard Yes • PROFINET standard Yes • Modbus TCP Yes • PROFIBUS Yes • Modbus TCP Yes • Oricruit breaker • of circuit breaker • of circuit breaker • of circuit breaker • of circuit breaker • usable 60/480 V accord	tightening torque	
terminals 10 tightening torque [lbf-in] 18 22 lbf-in • for main contacts with screw-type terminals 7 10.3 lbf-in Ambient conditions 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 above • ambient temperature during storage and transport -40 +80 °C environmental category - during operation acc. to IEC 60721 • during storage 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 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • Communication/ Protocol acc. to IEC 60947-4-2: Class A Communication Protocol Yes • PROFINET standard Yes	 for main contacts with screw-type terminals 	
tightening torque [lbf-in] • 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 during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • ambient temperature during storage and transport -40 +80 °C • 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 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) • PROFINET standard<		0.8 1.2 N·m
 for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals Ambient conditions ambient temperature during operation ambient temperature during storage and transport ambient temperature during storage and transport during operation acc. to IEC 60721 during storage acc. to IEC 60721 tk6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 tk6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 during transport acc. to IEC 60721 EMC emitted interference acc to IEC 60947-4-2: Class A Communication module is supported PROFINET standard PROFIBUS Ves PROFIBUS Ves PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker u usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA 		
• 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 during operation -25 +60 °C; Please observe derating at temperatures of 40 °C or above • ambient temperature during storage and transport -40 +80 °C • 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 Module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • U//CSA ratings Yes 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. 80 A; Iq = 5 kA		18 22 lbf-in
Installation 4mbient 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 above • ambient temperature during storage and transport -40 +80 °C • ambient temperature during storage and transport -40 +80 °C • 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 3K6 (no ive formation, 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 Module is supported Yes • PROFINET standard Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • Du/CSA ratings Yes 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. 80 A; Iq = 5 kA		
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 above • ambient temperature during storage and transport -40 +80 °C • 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) acc. to IEC 60947-4-2: Class A Communication module is supported • EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes • PROFIBUS Yes • Dut/CSA ratings Yes • of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA		
 ambient temperature during operation ambient temperature during storage and transport during operation acc. to IEC 60721 during storage acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the devices), 1M4 during transport acc. to IEC 60721 the device devices), 1M4 the device device devices), 1M4 the device device	Ambient conditions	
above • ambient temperature 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 module is supported • PROFINET standard • PROFINET standard Yes • Modbus RTU Yes • PROFIBUS Yes • PROFIBUS Yes • Drop Fibus • PROFIBUS Yes • Drop Fibus • PROFIBUS Yes • PROFIBUS Yes • Drop Fibus • Of circuit breaker - usable for Standard Faults at 460/480 V according to UL	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
environmental category during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 tK6 (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 Module is supported PROFINET standard EtherNet/IP Modbus RTU Yes Modbus RTU Yes PROFIBUS Yes UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL 	 ambient temperature during operation 	- · ·
 during operation acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 tK6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 during transport acc. to IEC 60721 tK6 (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 Module is supported PROFINET standard 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 Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA 	 ambient temperature during storage and transport 	-40 +80 °C
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 • PROFINET standard Yes • Modbus RTU • Modbus TCP • PROFIBUS Yes • DROFIBUS Yes • Communication protect • EtherNet/IP Yes • Modbus RTU • PROFIBUS Yes • DROFIBUS 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. 80 A; Iq = 5 kA	environmental category	
not get inside the devices), 1M4• during transport acc. 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 supportedYes• PROFINET standardYes• EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYesUL/CSA ratingsYesmanufacturer's article numberSiemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA	5 1	mist), 3S2 (sand must not get into the devices), 3M6
EMC emitted interference acc. to IEC 60947-4-2: Class A Communication / Protocol	during storage acc. to IEC 60721	
Communication / Protocol communication module is supported • PROFINET standard • PROFINET standard Yes • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS Yes • DROFIBUS Yes • Of Circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA		
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 according to UL		acc. to IEC 60947-4-2: Class A
 PROFINET standard PROFINET standard Standard Yes Modbus RTU Yes Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratice number of circuit breaker - usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
• EtherNet/IP Yes • Modbus RTU Yes • Modbus TCP Yes • PROFIBUS Yes UL/CSA ratings Yes • of circuit breaker Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA according to UL		N
• Modbus RTUYes• Modbus TCPYes• PROFIBUSYesUL/CSA ratingsYesUL/CSA ratingsSiemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA- usable for Standard Faults at 460/480 V according to ULSiemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
Modbus TCP Yes PROFIBUS Yes UL/CSA ratings UL/CSA ratings indicaturer'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. 80 A; lq = 5 kA		
• 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. 80 A; lq = 5 kA		
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. 80 A; lq = 5 kA		
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. 80 A; lq = 5 kA		
of circuit breaker — usable for Standard Faults at 460/480 V according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA		
- usable for Standard Faults at 460/480 V Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA according to UL		
	- usable for Standard Faults at 460/480 V	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
to UL kA	— usable for High Faults at 460/480 V according	
- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA	— usable for Standard Faults at 460/480 V at	

 — 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
	Siemens type. SVAST, max. oo A, iq max – os ka
 — usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 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. 80 A; lq = 5 kA
• of the fuse	
	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 100 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 100 A; lq = 100 kA
operating power [hp] for 3-phase motors	
at 200/208 V at 50 °C rated value	5 hp
 at 220/230 V at 50 °C rated value 	7.5 hp
• at 460/480 V at 50 °C rated value	15 hp
• at 575/600 V at 50 °C rated value	20 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	10 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	10 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	25 hp
at 575/600 V at inside-delta circuit at 50 °C rated value	30 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	in accordance with IEC 60947-4-2
Certificates/ approvals	
General Product Approval	EMC
	0
(SP: (W)) FHF FHF 🖉
CSA CCC UL	
Declaration of Conformity Test Certif	ficates Marine / Shipping
Miscellaneous Type T	iest and the state of the state
	rest us/Test ut Register
CE <u>Miscellaneous</u> <u>Certificate</u> <u>Repo</u>	Test Screen
CE <u>Miscellaneous</u> <u>Certificate</u> <u>Repo</u>	rest us/Test ut Register
Miscellaneous Type To Certificate: EG-Konf.	rest us/Test ut Register
Miscellaneous Type To Certificate: EG-Konf.	est as/Test ort ABS LINS PRS
Miscellaneous Type Tr Certificate: Repo Marine / Shipping other Confirmation Confirmation	est as/Test ort ABS LINS PRS
Miscellaneous Type Tr Certificate: Repo Marine / Shipping other Confirmation Confirmation	Test is/Test if Image: Construction of the second

https://www.siemens.com/ic10 Industry Mall (Online ordering system) Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-1TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC15&lang=en

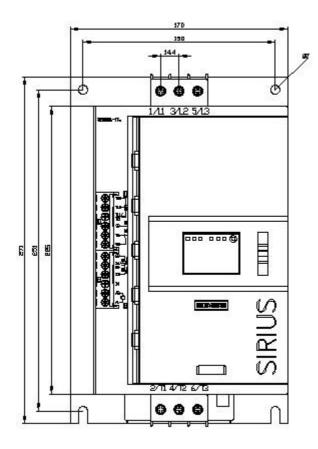
Characteristic: Tripping characteristics, I²t, Let-through current

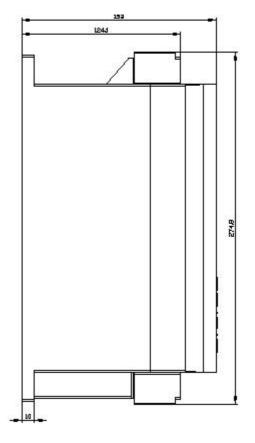
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC15/char

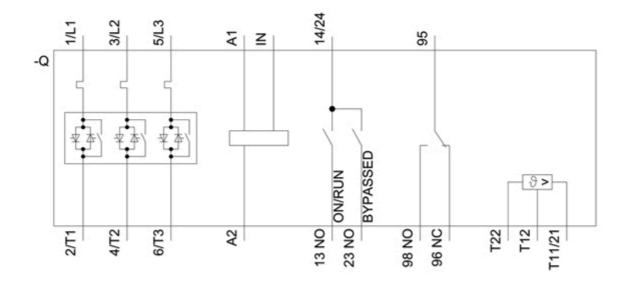
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1TC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







last modified:

12/15/2020 🖸