SIEMENS

3RW5215-1TC05 **Data sheet**



SIRIUS soft starter 200-600 V 25 A, 24 V AC/DC Screw terminals Thermistor input

product type designation product type designation anufacturer's article number • of standard HMI module usable • of nigh feature HMI module usable • of communication module PROFINET standard usable • of communication module PROFISUS usable • of communication module Modbus TCP usable • of communication module Modbus TCP usable • of communication module Modbus TCP usable • of communication module Ethernet/IP • of circuit breaker usable at 400 V at inside-delta circuit • of the gG fuse usable up to 690 V • of the gG fuse usable at inside-delta circuit up to 500 V • of full range R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protection usable up to 690 V • of back-up R fuse link for semiconductor protect	product brand name	SIRIUS
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30 100 %		3NE8021-1; Type of coordination 2, Iq = 65 kA
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	General technical data	
start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability CE marking UL approval CSA approval HMI-Standard HMI-Standard HMI-High Feature 0 20 s 130 700 % Yes Yes Yes Yes Yes	starting voltage [%]	30 100 %
current limiting value [%] adjustable certificate of suitability • CE marking • UL approval • CSA approval • CSA approval product component is supported • HMI-Standard • HMI-High Feature 130 700 % Yes Yes Yes Yes	stopping voltage [%]	50 50 %
certificate of suitability CE marking UL approval CSA approval HMI-Standard HMI-High Feature Yes Yes Yes Yes	start-up ramp time of soft starter	0 20 s
 CE marking UL approval CSA approval Product component is supported HMI-Standard HMI-High Feature Yes 	current limiting value [%] adjustable	130 700 %
 UL approval CSA approval Product component is supported HMI-Standard HMI-High Feature Yes 	certificate of suitability	
◆ CSA approval Product component is supported ◆ HMI-Standard Yes ◆ HMI-High Feature Yes	CE marking	Yes
product component is supported	UL approval	Yes
 HMI-Standard HMI-High Feature Yes 	CSA approval	Yes
HMI-High Feature Yes	product component is supported	
<u> </u>	HMI-Standard	Yes
product feature integrated bypass contact system Yes	HMI-High Feature	Yes
	product feature integrated bypass contact system	Yes

with a set controlled where	2
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	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	05.4
• at 40 °C rated value	25 A
• at 50 °C rated value	22 A
at 60 °C rated value	20 A
operational current at inside-delta circuit	40.0 A
• 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	000 0001/
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 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	
at 230 V at 40 °C rated value	5.5 kW
at 230 V at 40 C lated value 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	11.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	19.9 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 for inside delta circuit at rotary coding switch on switch on the circuit at rotary coding switch at	27.7 A
for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on the formal switch of the formal switch on the	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 32.4 A
switch position 9 for inside-delta circuit at rotary coding switch on	33.9 A
switch position 10 for inside-delta circuit at rotary coding switch on	35.5 A
switch position 11 • for inside-delta circuit at rotary coding switch on	37.1 A
switch position 12 • for inside-delta circuit at rotary coding switch on	38.6 A
switch position 13 • for inside-delta circuit at rotary coding switch on	40.2 A
switch position 14for inside-delta circuit at rotary coding switch on	41.7 A
switch position 15	

for inside-delta circuit at rotary coding switch on	43.3 A
switch position 16	40.0.0
at inside-delta circuit minimum	19.9 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	00.00
• 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	
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	20 %
voltage at AC at 50 Hz	20.04
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	0.75 A
inrush current peak at application of control supply voltage	3.3 A
maximum	12.1 mg
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of the overvoltage protection 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
300.5. 0. 0.00. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	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	102 11111
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm
weight without packaging	2.1 kg
Connections/ Terminals	2.1 Ng
type of electrical connection	
• for main current circuit	screw-type terminals
• for control circuit	screw-type terminals screw-type terminals
wire length for thermistor connection	Sciew-type terrimas
with conductor cross-section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum	150 m
with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum	250 m
	250 111
type of connectable conductor cross-sections • for main contacts	
	2v (1 0 2 5 mm²) 2v (2 5 40 mm²)
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
 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]	
 for main contacts with screw-type terminals 	18 22 lbf·in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
 during operation acc. to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	Yes
PROFINET standardEtherNet/IP	Yes 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. 70 A or 3VA51, max. 80 A; Iq = 5 kA according to UL usable for High Faults at 460/480 V according Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 to UI - usable for Standard Faults at 460/480 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-Siemens type: 3VA51, max. 60 A; Iq max = 65 kA delta circuit according to UL usable for Standard Faults at 575/600 V Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA according to UL usable for Standard Faults at 575/600 V at Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA inside-delta circuit according to UL • of the fuse usable for Standard Faults up to 575/600 V Type: Class RK5 / K5, max. 100 A; Iq = 5 kA according to UL usable for High Faults up to 575/600 V Type: Class J / L, max. 100 A; Iq = 100 kA according to UL - usable for Standard Faults at inside-delta Type: Class RK5 / K5, max. 100 A; Iq = 5 kA circuit up to 575/600 V according to UL Type: Class J / L, max. 100 A; Iq = 100 kA - usable for High Faults at inside-delta circuit up to 575/600 V according to UL 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 10 hp value • at 220/230 V at inside-delta circuit at 50 °C rated 10 hp value • at 460/480 V at inside-delta circuit at 50 °C rated 25 hp value • at 575/600 V at inside-delta circuit at 50 °C rated 30 hp R300-B300 contact rating of auxiliary contacts according to UL 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 **Declaration of General Product Approval EMC** Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-1TC05

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5215-1TC05}$

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1TC05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

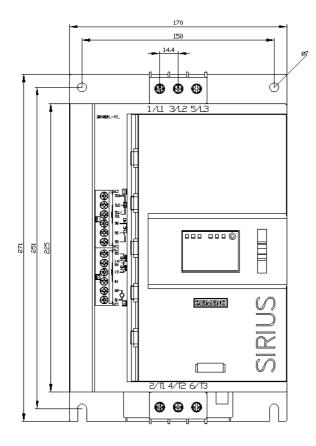
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1TC05/char

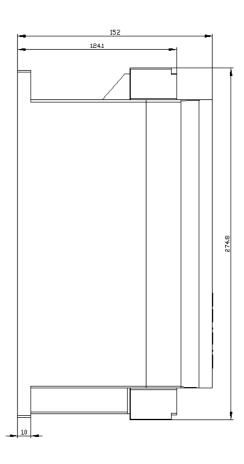
Characteristic: Installation altitude

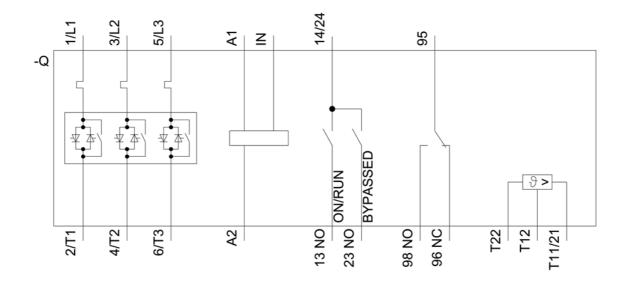
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1TC05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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