SIEMENS

Data sheet

3RW5217-1TC04



SIRIUS soft starter 200-480 V 38 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 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4WA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4WA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3RV2032-4RA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
 of circuit breaker usable at 500 V at inside-delta circuit 	<u>3RV2032-4RA10; Type of coordination 1, Iq = 10 kA, CLASS 10</u>
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	<u>3NA3824-6; Type of coordination 1, Iq = 65 kA</u>
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1820-0: Type of coordination 2. Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

The class CLASS 10A (default) / 10E / 20E; acc. to IEC 60947.4-2 boffering fine in the event of power failure 100 ms is the minic current direcuit 100 ms is the minic current direcuit 100 ms is the minic current direcuit 00 ms is the minic current direcuit 00 ms is the direcuit </th <th>number of controlled phases</th> <th>3</th>	number of controlled phases	3
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• at 40 °C rated value65.8 A• at 50 °C rated value58 A• at 60 °C rated value52.8 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	operational current at inside-delta circuit	
• at 60 °C rated value52.8 Aoperating voltage• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %	-	65.8 A
operating voltage 200 480 V • rated value 200 480 V • at inside-delta circuit rated value 200 480 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %	• at 50 °C rated value	58 A
 rated value at inside-delta circuit rated value 200 480 V 200 480 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	• at 60 °C rated value	52.8 A
 rated value at inside-delta circuit rated value 200 480 V 200 480 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	operating voltage	
• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage at10 %relative negative tolerance of the operating voltage at-15 %		200 480 V
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	 at inside-delta circuit rated value 	
relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %		
relative negative tolerance of the operating voltage at -15 %		10 %
		-15 %

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 	11 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	18.5 kW
 at 400 V at 40 °C rated value 	18.5 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	30 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 	15.5 A
 at rotary coding switch on switch position 2 	17 A
 at rotary coding switch on switch position 3 	18.5 A
 at rotary coding switch on switch position 4 	20 A
 at rotary coding switch on switch position 5 	21.5 A
 at rotary coding switch on switch position 6 	23 A
 at rotary coding switch on switch position 7 	24.5 A
 at rotary coding switch on switch position 8 	26 A
 at rotary coding switch on switch position 9 	27.5 A
 at rotary coding switch on switch position 10 	29 A
 at rotary coding switch on switch position 11 	30.5 A
 at rotary coding switch on switch position 12 	32 A
 at rotary coding switch on switch position 13 	33.5 A
 at rotary coding switch on switch position 14 	35 A
 at rotary coding switch on switch position 15 	36.5 A
 at rotary coding switch on switch position 16 	38 A
minimum	15.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	26.8 A
 for inside-delta circuit at rotary coding switch on switch position 2 	29.4 A
 for inside-delta circuit at rotary coding switch on switch position 3 	32 A
 for inside-delta circuit at rotary coding switch on switch position 4 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	37.2 A
• for inside-delta circuit at rotary coding switch on switch position 6	39.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on 	42.4 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	45 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	47.6 A 50.2 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on 	52.8 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	55.4 A
 switch position 12 for inside-delta circuit at rotary coding switch on 	58 A
 switch position 13 for inside-delta circuit at rotary coding switch on 	60.6 A
 switch position 14 for inside-delta circuit at rotary coding switch on 	63.2 A
switch position 15 • for inside-delta circuit at rotary coding switch on	65.8 A
switch position 16	

 at inside-delta circuit minimum 	26.8 A
• at inside-delta circuit minimum minimum load [%]	
power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
at 40 °C after startup	23 W
• at 50 °C after startup	23 W
	22 W 21 W
• at 60 °C after startup	21 W
power loss [W] at AC at current limitation 350 %	C20.144
• at 40 °C during startup	628 W
• at 50 °C during startup	526 W
• at 60 °C during startup	464 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
 at DC rated value 	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
locked-rotor current at close of bypass contact	0.75 A
maximum	
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	
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	1A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	275 mm

width 170 mm depth 152 mm required spacing with side-by-side mounting 10 mm • forwards 10 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals type of electrical connection • for control circuit screw-type terminals wire length for thermistor connection screw-type terminals with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 250 m • with conductor cross-section = 2.5 mm² maximum 250 m • with conductor cross-sections • for main contacts - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) • at AWG cables for main current circuit solid 2x (16 12), 2x (14 8)	
required spacing with side-by-side mounting 10 mm • forwards 0 mm • backwards 0 mm • upwards 100 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.3 kg Connections/ Terminals 50 m type of electrical connection screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) • for main contacts - solid 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
• forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
 backwards upwards downwards at the side 5 mm at the side 5 mm 2.3 kg Connections/ Terminals type of electrical connection for main current circuit screw-type terminals for control circuit screw-type terminals wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum for main contacts	
• upwards 100 mm • downwards 75 mm • at the side 5 mm • at the side 5 mm weight without packaging 2.3 kg Connections/Terminals 2.3 kg type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 250 m • for main contacts - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuit• for control circuitscrew-type terminalswire length for thermistor connection• with conductor cross-section = 0.5 mm² maximum• with conductor cross-section = 1.5 mm² maximum• with conductor cross-section = 2.5 mm² maximum• with conductor cross-section = 2.5 mm² maximum• for main contacts- solid- solid- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 10 mm²)	
• at the side5 mmweight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connectionscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
weight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection screw-type terminals • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 250 m • for main contacts - solid - 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)	
type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection sorew-type terminals • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections e for main contacts - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
 for main current circuit for control circuit screw-type terminals screw-type terminals<td></td>	
• for control circuit screw-type terminals wire length for thermistor connection screw-type terminals • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 250 m • for main contacts - solid - 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)	
wire length for thermistor connection 50 m • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m • with conductor cross-sections 250 m • for main contacts - solid - 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)	
 with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts – solid – solid – finely stranded with core end processing type of conmercial conductor crossing 	
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections for main contacts – solid – solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) – finely stranded with core end processing 	
• with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections - • for main contacts - — solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) — finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
type of connectable conductor cross-sections • for main contacts — solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) — finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)	
 for main contacts – solid – finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 2x (1.0 2.5 mm²), 2x (2.5 6.0 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)	
- finely stranded with core end processing 2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)	
type of connectable conductor cross-sections	
• for control circuit solid 1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)	
• for control circuit finely stranded with core end 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)	
processing	
• 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 0.8 1.2 N·m	
terminals	
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	
Ambient conditions	_
installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog	
ambient temperature	
• during operation	40 °C or
• during operation -25 +00 °C, Please observe derating at temperatures of 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), 1S	2 (sand must
not get inside the devices), 1M4	
• during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
EMC emitted interference acc. to IEC 60947-4-2: Class A	
Communication/ Protocol	
communication module is supported	
PROFINET standard Yes	
• EtherNet/IP Yes	
Modbus RTU Yes	
Modbus TCP Yes	
PROFIBUS Yes	

JL/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. 125 A; lq = 5 kA
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 5 kA
 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
 — usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
 — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 5 kA
of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 150 A; Iq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 150 A; lq = 100 kA
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 150 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. 150 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	10 hp
• at 220/230 V at 50 °C rated value	10 hp
• at 460/480 V at 50 °C rated value	20 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	15 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	20 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	40 hp
contact rating of auxiliary contacts according to UL afety related data	R300-B300
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
ertificates/ approvals	
General Product Approval	EMC Declaration of Conformity
	0
(SP) (WC) (VL)	FAI / 🐼 CE
	RCM EG-Konf.
Test Certificates Marine / Shipping	
Type Test Certific- ates/Test Report	LISS PRS
VERITAS	3
other	

Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5217-1TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5217-1TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1TC04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5217-1TC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

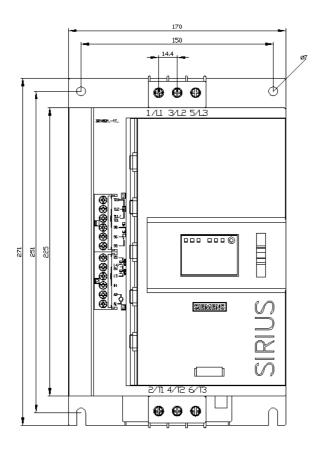
https://support.industry.siemens.com/cs/ww/en/ps/3RW5217-1TC04/char

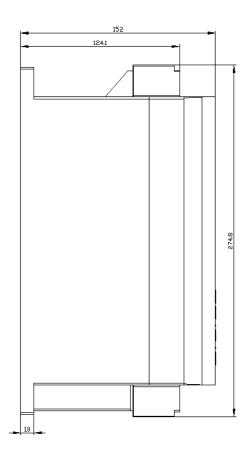
Characteristic: Installation altitude

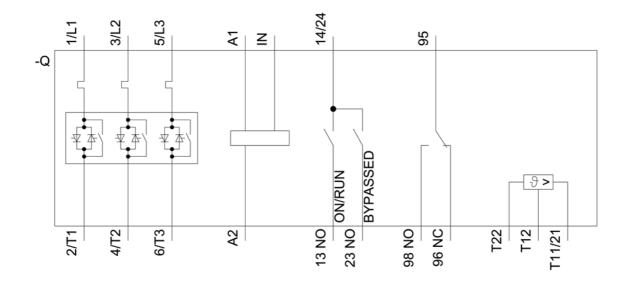
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5217-1TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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