SIEMENS

Data sheet 3RW5073-2TB05

SIRIUS



SIRIUS soft starter 200-600 V 250 A, 24 V AC/DC Spring-loaded terminals Thermistor input

Figure similar

product brand name

product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS01
 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 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 331-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 335; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	3RT1065
 of line contactor usable up to 690 V 	3RT1065
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class acc. to IEC 61557-12	5 %
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

trin class	CLASS 10A / 10E (propert) / 20E; and to IEC 60047 4.2
trip class buffering time in the event of power failure	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
for main current circuit	100 ms
for control circuit	100 ms
	600 V
insulation voltage rated value	3, acc. to IEC 60947-4-2
degree of pollution	5, acc. to IEC 60947-4-2
impulse voltage rated value blocking voltage of the thyristor maximum	1 600 V
service factor	1
reference code acc. to IEC 81346-2	Q
product function	Q
• 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
• auto-RESET	Yes
manual RESET remete reset	Yes Vec: By turning off the central supply voltage
• remote reset	Yes; By turning off the control supply voltage Yes
communication function congrating measured value display	
operating measured value display orrer leghant	Yes; Only in conjunction with special accessories
error logbook via coftware parameterizable	Yes; Only in conjunction with special accessories No
via software parameterizablevia software configurable	Yes
3	Yes; in connection with the PROFINET Standard communication
PROFlenergy	module
voltage ramp	Yes
• torque control	No
analog output	No
Power Electronics	
operational current	250 A
• at 40 °C rated value	250 A
• at 50 °C rated value	220 A
• at 60 °C rated value	200 A
operating voltage • rated value	200 600 V
	-15 %
relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	10 /0
at 230 V at 40 °C rated value	75 kW
at 400 V at 40 °C rated value	132 kW
• at 500 V at 40 °C rated value	160 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	100 A
at rotary coding switch on switch position 2	110 A
at rotary coding switch on switch position 3	120 A
·	130 A
 at rotary coding switch on switch position 4 	130 A 140 A
at rotary coding switch on switch position 4at rotary coding switch on switch position 5	
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	140 A 150 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	140 A

 at rotary coding switch on switch position 9 	180 A
 at rotary coding switch on switch position 10 	190 A
 at rotary coding switch on switch position 11 	200 A
 at rotary coding switch on switch position 12 	210 A
 at rotary coding switch on switch position 13 	220 A
 at rotary coding switch on switch position 14 	230 A
 at rotary coding switch on switch position 15 	240 A
 at rotary coding switch on switch position 16 	250 A
• minimum	100 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
at 40 °C after startup	23 W
at 50 °C after startup	18 W
• at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	2 454 W
at 50 °C during startup	2 043 W
at 60 °C during startup	1 786 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	inputing in the event of the mail eventual of the motor
type of voltage of the control supply voltage	AC/DC
 control supply voltage at AC at 50 Hz rated value 	24 V
control supply voltage at AC at 60 Hz rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	20 %
voltage at AC at 50 Hz relative negative tolerance of the control supply	-20 %
voltage at AC at 60 Hz	
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	490 mA
locked-rotor current at close of bypass contact maximum	7.6 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
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	230 mm
width	160 mm
depth	282 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
weight without packaging	7.3 kg
onnections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
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	
for main contacts for box terminal using the front clamping point solid	95 300 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²
 at AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil
for main contacts for box terminal using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points stranded 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²
for main contacts for box terminal using the back clamping point stranded	120 240 mm²
type of connectable conductor cross-sections	
 at AWG cables for main current circuit solid 	2/0 500 kcmil
 for DIN cable lug for main contacts stranded 	50 240 mm²
• for DIN cable lug for main contacts finely stranded	70 240 mm²

 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
at AWG cables for control circuit solid	2x (24 16)
at AWG cables for control circuit finely stranded with	2x (24 16)
core end processing	
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	14 24 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 	124 210 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 manual
 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 	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
• EtherNet/IP	Yes
EtherNet/IPModbus RTU	Yes Yes
EtherNet/IPModbus RTUModbus TCP	Yes Yes Yes
EtherNet/IPModbus RTUModbus TCPPROFIBUS	Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings	Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL	Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL of the fuse	Yes Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V 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	Yes Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V 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 High Faults up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V 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 High Faults up to 575/600 V according to UL operating power [hp] for 3-phase motors	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Type: Class L, max. 800 A; Iq = 18 kA Type: Class L, max. 800 A; Iq = 100 kA
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for High Faults at 460/480 V 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 High Faults up to 575/600 V according to UL operating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for High Faults at 460/480 V 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 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 at 575/600 V at 50 °C rated value	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Type: Class L, max. 800 A; Iq = 18 kA Type: Class L, max. 800 A; Iq = 100 kA 60 hp 75 hp 150 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
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relating to ATEX	
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.000009 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y

Certificates/ approvals

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

other



Miscellaneous

<u>Type Test</u> <u>Certificates/Test</u> Report Type Test Certificates/Test Report Confirmation

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=3RW5073-2TB05

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5073-2TB05}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-2TB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5073-2TB05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

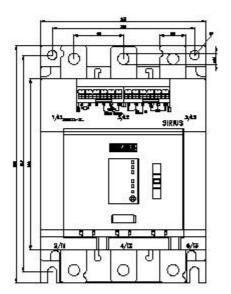
https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-2TB05/char

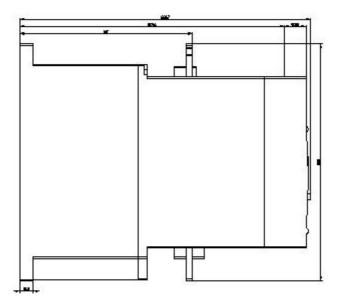
Characteristic: Installation altitude

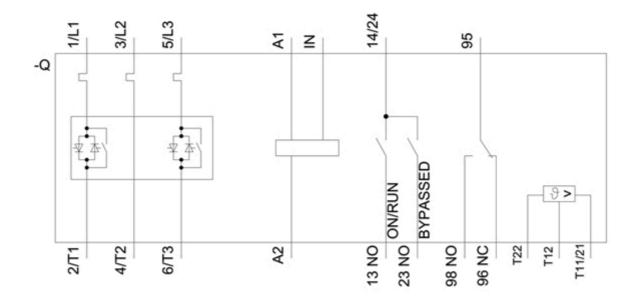
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5073-2TB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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