## **SIEMENS**

3RW5076-6TB04 **Data sheet** 



SIRIUS soft starter 200-480 V 470 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	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS01
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1 436-2; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3 340-8; Type of coordination 2, Iq = 65 kA
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1076</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1076</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
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 according to IEC 61557-12	5 %
certificate of suitability	
<ul> <li>CE marking</li> </ul>	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	2
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure	
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 according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
<ul><li>ramp-down (soft stop)</li></ul>	Yes
Soft Torque	Yes
adjustable current limitation	Yes
<ul><li>pump ramp down</li></ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
• auto-RESET	Yes
manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
<ul><li>error logbook</li></ul>	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
voltage ramp	Yes
• torque control	No
analog output	No
Power Electronics	
operational current	
• at 40 °C rated value	470 A
• at 50 °C rated value	416 A
at 60 °C rated value	380 A
operating voltage	200 40014
• rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors  • at 230 V at 40 °C rated value	132 kW
at 400 V at 40 °C rated value     at 400 V at 40 °C rated value	132 kW 250 kW
	50 Hz
Operating frequency 1 rated value Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
adjustable motor current	10 /0
at rotary coding switch on switch position 1	200 A
at rotary coding switch on switch position 2	218 A
at rotary coding switch on switch position 3	236 A
at rotary coding switch on switch position 4	254 A
- acrossing owner on owner position a	20

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	272 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	290 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	308 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	326 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	344 A
at rotary coding switch on switch position 10	362 A
,	380 A
at rotary coding switch on switch position 11	
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	398 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	416 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	434 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	452 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	470 A
• minimum	200 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	56 W
·	44 W
• at 50 °C after startup	
• at 60 °C after startup	37 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	5 344 W
<ul> <li>at 50 °C during startup</li> </ul>	4 438 W
at 60 °C during startup	3 876 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
	AOIDO
control supply voltage at AC	041/
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	-10 %
voltage frequency	
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	-20 %
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	7.6 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	
	1
number of digital outputs	1
number of digital outputs	3
<ul> <li>not parameterizable</li> </ul>	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	0.4
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	with a still second in a surface of 000 set to be with a still second in
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	40
• forwards	10 mm
backwards	0 mm
upwards     downwards	100 mm
downwards     at the pide	75 mm
at the side	5 mm
weight without packaging	7.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
• for control circuit	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 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	0.5
for main contacts for box terminal using the front clamping point solid	95 300 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul>	70 240 mm²
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	95 300 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	3/0 600 kcmil
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	120 240 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	250 500 kcmil
for main contacts for box terminal using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	120 185 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	120 185 mm²
for main contacts for box terminal using the back clamping point stranded	120 240 mm²
<ul><li>type of connectable conductor cross-sections</li><li>at AWG cables for main current circuit solid</li></ul>	2/0 500 kcmil

<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	50 240 mm²
for DIN cable lug for main contacts finely stranded	70 240 mm²
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	4 (00 40) 0 (00 44)
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	1 000 m
tightening torque	
for main contacts with screw-type terminals	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
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	7 10.5 IDI III
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
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
e during transport according to IEC 60721	not get inside the devices), 1M4
during transport according to IEC 60721  EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
	acc. to IEC 00347-4-2. Class A
Communication/ Protocol	
Communication/ Protocol	
communication module is supported	Voc
communication module is supported  • PROFINET standard	Yes
communication module is supported  • PROFINET standard  • EtherNet/IP	Yes
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU	Yes Yes
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP	Yes Yes Yes
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS	Yes Yes
communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings	Yes Yes Yes
communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number	Yes Yes Yes
communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse	Yes Yes Yes Yes Yes
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V	Yes Yes Yes
communication module is supported  • PROFINET standard  • EtherNet/IP  • Modbus RTU  • Modbus TCP  • PROFIBUS  UL/CSA ratings  manufacturer's article number  • of the fuse  — usable for Standard Faults up to 575/600 V according to UL	Yes Yes Yes Yes Yes Yes Type: Class L, max. 1600 A; Iq = 30 kA
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  of the fuse  usable for Standard Faults up to 575/600 V	Yes Yes Yes Yes Yes
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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 Type: Class L, max. 1600 A; Iq = 30 kA
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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	Yes Yes Yes Yes Yes Yes Type: Class L, max. 1600 A; Iq = 30 kA
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communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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	Yes Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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	Yes Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA
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communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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 460/480 V at 50 °C rated value  Safety related data  protection class IP on the front according to IEC 60529	Yes Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp  IP00; IP20 with cover
communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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  Safety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529	Yes Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp
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communication module is supported  PROFINET standard  EtherNet/IP  Modbus RTU  Modbus TCP  PROFIBUS  UL/CSA ratings  manufacturer's article number  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  Safety related data  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529	Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp  IP00; IP20 with cover
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communication module is supported  PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS  UL/CSA ratings  manufacturer's article number  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 460/480 V at 50 °C rated value  at 460/480 V at 50 °C rated value  Total value  Safety related data  protection class IP on the front according to IEC 60529  ATEX  certificate of suitability  ATEX  IECEX  hardware fault tolerance according to IEC 61508 relating to ATEX	Yes Yes Yes Yes Yes  Type: Class L, max. 1600 A; Iq = 30 kA  Type: Class L, max. 1200 A; Iq = 100 kA  150 hp 150 hp 350 hp  IP00; IP20 with cover finger-safe, for vertical contact from the front with cover  Yes Yes 0

relating to ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 y

Certificates/ approvals

## **General Product Approval**

For use in hazardous locations





Confirmation







For use in hazardous locations Declaration of Conformity

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







other

Confirmation

## **Further information**

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$ 

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5076-6TB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6TB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6TB04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5076-6TB04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6TB04/char

Characteristic: Installation altitude

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5076-6TB04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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

last modified: 4/11/2022 🖸