## SIEMENS

## Data sheet

## 3RW5077-6TB04



SIRIUS soft starter 200-480 V 570 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>	<u>3RW5980-0HS01</u>				
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>				
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>				
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>				
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>				
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>				
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>				
<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>	<u>3NE1 437-2; Type of coordination 2, Iq = 65 kA</u>				
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3 340-8; Type of coordination 2, Iq = 65 kA</u>				
<ul> <li>of line contactor usable up to 480 V</li> </ul>	3TF68				
<ul> <li>of line contactor usable up to 690 V</li> </ul>	3TF68				
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 %				
certificate of suitability					
CE marking	Yes				
UL approval	Yes				
CSA approval	Yes				
product component					
HMI-High Feature	No				
<ul> <li>is supported HMI-Standard</li> </ul>	Yes				
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	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 protective separation					
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
utilization category according to IEC 60947-4-2	AC-53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	09/23/2019				
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dicyclohexyl phthalate (DCHP) - 84-61-7				
product function					
• ramp-up (soft starting)	Yes				
• ramp-down (soft stop)	Yes				
Soft Torque	Yes				
<ul> <li>adjustable current limitation</li> </ul>	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				
communication function	Yes				
operating measured value display	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories				
error logbook					
<ul> <li>via software parameterizable</li> <li>via software configurable</li> </ul>	No 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	570 A				
• at 50 °C rated value	504 A				
• at 60 °C rated value	460 A				
operating voltage					
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	160 kW				
• at 400 V at 40 °C rated value	315 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					
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	240 A				

<ul> <li>at rotary coding switch on switch position 2</li> </ul>	262 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	284 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	306 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	328 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	350 A
at rotary coding switch on switch position 7	372 A
	394 A
at rotary coding switch on switch position 8	
at rotary coding switch on switch position 9	416 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	438 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	460 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	482 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	504 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	526 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	548 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	570 A
• minimum	240 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	73 W
• at 50 °C after startup	57 W
● at 60 °C after startup	47 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	7 019 W
• at 50 °C during startup	5 801 W
• at 60 °C during startup	5 048 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	, * * F * * 3 ··· * *
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
	24 V
e at 60 Hz rated value	24.1/
at 60 Hz rated value relative negative tolerance of the control supply voltage at	24 ∨ -20 %
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at	
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at	-20 %
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relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage at DC • rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	-20 % 20 % -20 % 20 % 50 60 Hz -10 % 10 % 24 V -20 % 20 % 160 mA 490 mA 7.6 A 3.3 A 12.1 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit
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relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage at DC • rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	-20 % 20 % -20 % 20 % 50 60 Hz -10 % 10 % 24 V -20 % 20 % 160 mA 490 mA 7.6 A 3.3 A 12.1 ms Varistor 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

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	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			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	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				
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m			
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m			
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m			
type of connectable conductor cross-sections for main contacts for box terminal				
<ul> <li>using the front clamping point solid</li> </ul>	95 300 mm²			
<ul> <li>using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²			
<ul> <li>using the front clamping point finely stranded without core end processing</li> </ul>	70 240 mm²			
<ul> <li>using the front clamping point stranded</li> </ul>	95 300 mm²			
<ul> <li>using the back clamping point solid</li> </ul>	120 240 mm²			
<ul> <li>r box terminal using the back clamping point</li> </ul>	250 500 kcmil			
using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²			
using both clamping points finely stranded with core end processing	min. 2x 50 mm², max. 2x 185 mm²			
<ul> <li>using both clamping points finely stranded without core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²			
using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²			
using the back clamping point finely stranded with core end processing	120 185 mm <sup>2</sup>			
using the back clamping point finely stranded without core end processing	120 185 mm <sup>2</sup>			
using the back clamping point stranded	120 240 mm²			
type of connectable conductor cross-sections • for AWG cables for main current circuit solid	2/0 500 komil			
	2/0 500 kcmil 50 240 mm²			
<ul> <li>for DIN cable lug for main contacts stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	50 240 mm <sup>2</sup>			
for DIN cable lug for main contacts finely stranded  type of connectable conductor cross-sections				
type of connectable conductor cross-sections • for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	$1x (0.5 4.0 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ $1x (0.5 2.5 \text{ mm}^2), 2x (0.5 1.5 \text{ mm}^2)$			
<ul> <li>for control circuit inners stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> </ul>	1x (0.5 2.5 mm <sup>-</sup> ), 2x (0.5 1.5 mm <sup>-</sup> ) 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			
- in main contacto min onon type torminuto				

<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m				
tightening torque [lbf·in]					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf-in				
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in				
terminals					
mbient conditions					
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above				
<ul> <li>during storage and transport</li> </ul>	-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				
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not ge inside the devices), 1M4				
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
nvironmental footprint					
Siemens Eco Profile (SEP)	Siemens EcoTech				
EMC emitted interference	acc. to IEC 60947-4-2: Class A				
ommunication/ Protocol					
communication module is supported					
PROFINET standard	Yes				
• EtherNet/IP	Yes				
Modbus RTU	Yes				
Modbus TCP	Yes				
PROFIBUS	Yes				
L/CSA ratings					
manufacturer's article number					
of the fuse					
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 1600 A; lq = 30 kA				
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 1200 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	150 hp				
• at 220/230 V at 50 °C rated value	200 hp				
• at 460/480 V at 50 °C rated value	400 hp				
	400 110				
Electrical Safety	ID00: ID20 with cover				
protection class IP on the front according to IEC 60529	IP00; IP20 with cover				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover				
TEX					
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1				
PFHD with high demand rate according to IEC 61508 relating to ATEX	9E-6 1/h				
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09				
hardware fault tolerance according to IEC 61508 relating to ATEX	0				
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a				
certificate of suitability	N .				
• ATEX	Yes				
• IECEx	Yes				
	Yes				
• UKEX					
UKEX pprovals Certificates					

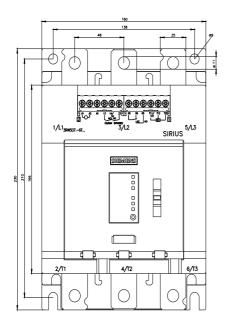
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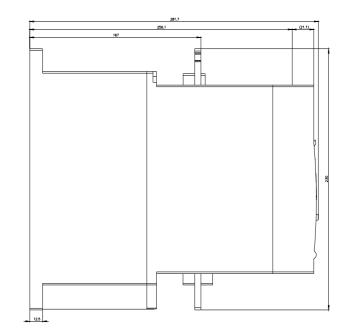
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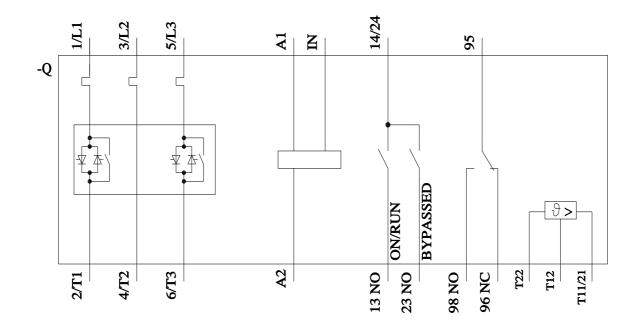
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EG-Konf.

General Product Ap- proval	EMV	For use in hazardous locations			Test Certificates		
EHC	<u>KC</u>	K ATEX	IECEx	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report		
Marine / Shipping			other	Environment			
ABS	Lloyd's Register urs	PRS	Confirmation	EPD	Siemens EcoTech		
Environment							
Environmental Con- firmations							
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RW5077-6TB04							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5077-6TB04							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5077-6TB04							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5077-6TB04⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/os/3RW5077-6TB04/char							
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5077-6TB04&objecttype=14&gridview=view1							
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917							







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