## **SIEMENS**

Data sheet 3RW5077-2TB04

SIRIUS



SIRIUS soft starter 200-480 V 570 A, 24 V AC/DC Spring-loaded terminals Thermistor input

Figure similar

product brand name

production and an arrangement of the control of the	
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 437-2; 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>	3TF68
<ul> <li>of line contactor usable up to 690 V</li> </ul>	3TF68
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> <li>UL approval</li> </ul>	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
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	
<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
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	23.09.2019 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	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
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software parameterizatio     via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
• Fixor lenergy	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 negative tolerance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage	-15 % 10 %
relative positive tolerance of the operating voltage operating power for 3-phase motors	10 %
relative positive tolerance of the operating voltage operating power for 3-phase motors  • at 230 V at 40 °C rated value	10 % 160 kW
relative positive tolerance of the operating voltage operating power for 3-phase motors  • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value	10 % 160 kW 315 kW
relative positive tolerance of the operating voltage operating power for 3-phase motors  • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value  Operating frequency 1 rated value	10 %  160 kW  315 kW  50 Hz
relative positive tolerance of the operating voltage operating power for 3-phase motors  • at 230 V at 40 °C rated value  • at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value	10 %  160 kW  315 kW  50 Hz  60 Hz
relative positive tolerance of the operating voltage operating power for 3-phase motors • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency	10 %  160 kW 315 kW 50 Hz 60 Hz -10 %
relative positive tolerance of the operating voltage operating power for 3-phase motors • at 230 V at 40 °C rated value • at 400 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	10 %  160 kW  315 kW  50 Hz  60 Hz
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at 50 Hz rated value  at 60 Hz rated value  24 V  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 positive tolerance of the control supply voltage at AC at 60 Hz  relative positive 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 negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage  at DC rated value  relative negative tolerance of the 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  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply of 0 %  2		AOIDO
e at 60 Hz rated value  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 AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  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 positive 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  holding current in bypass operation rated value  holding current to be at application of control supply voltage maximum  inrush current peak at application of control supply voltage maximum  inrush current peak at application of control supply voltage duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  24 V  7.6 A  8.3 A  9.4 A g G 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		24 V
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 positive tolerance of the control supply voltage at AC at 60 Hz relative positive 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 negative tolerance of the control supply voltage frequency relative positive 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 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 locked-rotor current at close of bypass contact 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 circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is		
relative positive 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 positive tolerance of the control supply voltage at AC at 60 Hz  relative positive 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  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  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive 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  locked-rotor current at close of bypass contact  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  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 800 A), C6 miniature circuit breaker (Icu= 300 A); Is		
relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive 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  holding current at close of bypass contact 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 %  24 V  26 %  26 M  27 %  28 V  29 %  20 %  20 %  20 %  20 %  21 N  22 V  23 N  24 V  25 N  26 N  27 N  28 N  29 N  20 N	voltage at AC at 50 Hz	-20 /0
relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive 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 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  locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage  duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  design of short-circuit protection for control circuit breaker (Icu= 800 A), C6 miniature circuit breaker (Icu= 300 A); Is	relative positive tolerance of the control supply	20 %
relative positive tolerance of the control supply voltage frequency relative negative tolerance of the 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 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 locked-rotor current at close of bypass contact 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 design of short-circuit protection for control circuit breaker (Icu= 300 A), Is		00.0/
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		-20 %
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 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 locked-rotor current at close of bypass contact 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  50 60 Hz  -10 %  0 W  0 W  -20 %  0 W  160 mA  490 mA  7.6 A  3.3 A  12.1 ms  supply voltage  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		20 %
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  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 locked-rotor current at close of bypass contact 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  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		50 60 H <sub>7</sub>
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  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  holding current in bypass operation rated value  locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage of the overvoltage protection  design of the overvoltage protection  design of short-circuit protection for control circuit  voltage at DC  20 %  voltage at DC  160 mA  7.6 A  7.6 A  12.1 ms  12.1 ms  voltage design of the overvoltage protection  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is		
voltage frequency  control supply voltage  • at DC rated value  24 V  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  locked-rotor current at close of bypass contact 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  design of short-circuit protection for control circuit breaker (Icu= 300 A); Is		-10 %
control supply voltage		10 %
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 locked-rotor current at close of bypass contact 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  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		
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 locked-rotor current at close of bypass contact 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  voltage 20 %  160 mA  490 mA  7.6 A  12.1 ms  12.1 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is	at DC rated value	24 V
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 locked-rotor current at close of bypass contact 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  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		-20 %
control supply current in standby mode rated value holding current in bypass operation rated value  locked-rotor current at close of bypass contact 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  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		20 %
holding current in bypass operation rated value  locked-rotor current at close of bypass contact 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  490 mA  7.6 A  12.1 ms  12.1 ms  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is		
Tooked-rotor current at close of bypass contact maximum   Tooked-rotor current at close of bypass contact maximum   Tooked-rotor current peak at application of control supply voltage maximum   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control supply voltage   Tooked-rotor current peak at application of control suppl		
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  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		
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  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A), Is		7.6 A
supply voltage  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 circuit breaker (Icu= 300 A), C6 miniature circuit breaker (Icu= 300 A); Is		3.3 A
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		12.1 ms
circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is	design of the overvoltage protection	Varistor
		circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is

number of digital inputs	1
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
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	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
<ul><li>at DC-13 at 24 V rated value</li></ul>	1 A
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
<ul><li>downwards</li></ul>	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	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	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
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	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
type of connectable conductor cross-sections	
<ul> <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	
for control circuit solid	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at AC maximum	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
for auxiliary and control contacts with screw-type terminals	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	
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 acc. 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 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	
<ul> <li>PROFINET standard</li> </ul>	Yes
EtherNet/IP	Yes
<ul><li>Modbus RTU</li></ul>	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 1600 A; Iq = 30 kA
usable for High Faults up to 575/600 V     according to UL	Type: Class L, max. 1200 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	150 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	200 hp
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	400 hp
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
•	

ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.09
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** 



Type Test Certificates/Test Report

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=3RW5077-2TB04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5077-2TB04}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5077-2TB04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5077-2TB04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

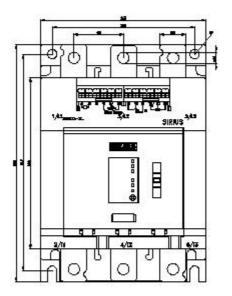
https://support.industry.siemens.com/cs/ww/en/ps/3RW5077-2TB04/char

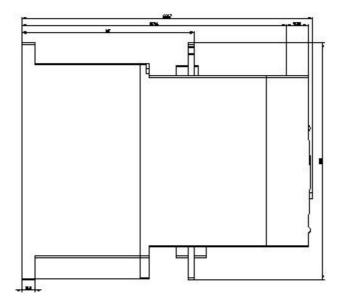
Characteristic: Installation altitude

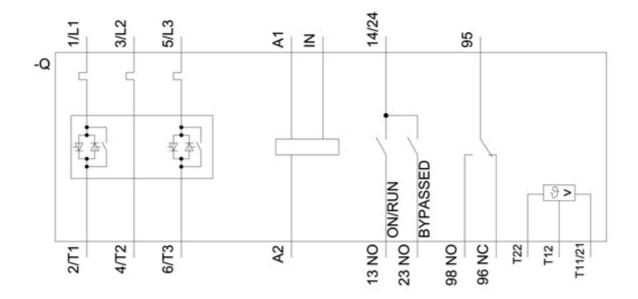
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5077-2TB04\&objecttype=14\&gridview=view1}$ 

Simulation Tool for Soft Starters (STS)

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







last modified: 6/24/2021 🖸