## **SIEMENS**



Data sheet 3RW5074-6TB15

**SIRIUS** 



SIRIUS soft starter 200-600 V 315 A, 110-250 V AC Screw 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	
<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>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; 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 333-2; 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 335: Type of coordination 2, Iq = 65 kA
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1075</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1075</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	
CE marking	Yes
<ul> <li>UL approval</li> </ul>	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 ( 20E, acc. to IEC 60947-4-2
buffering time in the event of power failure	•• JIII HIII III III
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	v
• 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)
<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 configurable	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	315 A
• at 50 °C rated value	279 A
at 60 °C rated value	255 A
operating voltage	000 000 1/
• rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	00 1444
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value	90 kW
• at 400 V at 40 °C rated value	160 kW
at 500 V at 40 °C rated value  Operating frequency 4 rated value	200 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz -10 %
relative negative tolerance of the operating frequency	
relative positive tolerance of the operating frequency	10 %
adjustable motor current	135 A
<ul><li>at rotary coding switch on switch position 1</li><li>at rotary coding switch on switch position 2</li></ul>	135 A 147 A
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relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency 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  Inputs/ Outputs number of digital inputs number of digital outputs  • not parameterizable digital output version number of analog outputs  -10 %  10 %  10 %  10 %  2.2 A  2.2 A  2.2 A  2.2 ms  3.3  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply  1 number of digital inputs 2 normally-open contacts (NO) / 1 changeover contact (CO)  number of analog outputs 0		10 %
relative positive tolerance of the control supply voltage frequency  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  number of digital inputs  number of digital outputs  ont parameterizable  digital output version number of analog outputs  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 %  10 M  1	control supply voltage frequency	50 60 Hz
voltage frequency 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  number of digital inputs  number of digital outputs  number of digital outputs on to parameterizable digital output version number of analog outputs  number of analog outputs  105 mA 2.2 A 2.2 A 2.2 ms 2.2 ms 2.2 ms  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply  1		-10 %
holding current in bypass operation rated value       105 mA         locked-rotor current at close of bypass contact maximum       2.2 A         inrush current peak at application of control supply voltage maximum       12.2 A         duration of inrush current peak at application of control supply voltage       2.2 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 inputs       1         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	voltage frequency	10 %
locked-rotor current at close of bypass contact maximum   2.2 A	control supply current in standby mode rated value	30 mA
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  Inputs/ Outputs  number of digital inputs  number of digital outputs  ont parameterizable  digital output version  number of analog outputs  12.2 A  2.2 ms  2.2 ms  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply  1 number of digital inputs  2 cormally-open contacts (NO) / 1 changeover contact (CO)  number of analog outputs  0	holding current in bypass operation rated value	105 mA
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  Inputs/ Outputs  number of digital inputs  number of digital outputs  number of digital outputs  number of digital outputs  ont parameterizable  digital output version  number of analog outputs  1  2.2 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 not part of scope of supply  1  1  2  2  2  3  4  2  2  4  3  4  4  4  4  4  4  4  4  4  4  4		2.2 A
supply 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=600 A), C6 miniature circuit breaker (Icu=300 A); Is not part of scope of supply  Inputs/ Outputs  number of digital inputs  • not parameterizable  digital output version  number of analog outputs  2 normally-open contacts (NO) / 1 changeover contact (CO)  number of analog outputs	maximum	12.2 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 not part of scope of supply         Inputs/ Outputs       1         number of digital inputs       1         number of digital outputs       3         o not parameterizable       2         digital output version       2 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       0		2.2 ms
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  ■ not parameterizable  digital output version  number of analog outputs  0		Varistor
number of digital inputs       1         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	design of short-circuit protection for control circuit	circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is
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	Inputs/ Outputs	
not parameterizable     digital output version     number of analog outputs     2     normally-open contacts (NO) / 1 changeover contact (CO)     0	number of digital inputs	1
digital output version     2 normally-open contacts (NO) / 1 changeover contact (CO)       number of analog outputs     0	number of digital outputs	3
number of analog outputs 0	<ul> <li>not parameterizable</li> </ul>	2
	digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
switching capacity current of the relay outputs	number of analog outputs	0
	switching capacity current of the relay outputs	

• at AC-15 at 250 V rated value • at DC-13 at 24 V rated value  Installation/ mounting/ dimensions  mounting position  fastening method height vidth depth 230 mm equired spacing with side-by-side mounting • forwards • backwards • backwards • downwards • downwards • downwards • at the side  weight without packaging  Connections/ Torminals  type of electrical connection • for main current circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • or for main contacts for box terminal using the front clamping point finely stranded without core end processing • for main contacts for box terminal using the front clamping point siranded • at AWG cables for main contacts for box terminal using the front clamping point siranded • at AWG cables for main contacts for box terminal using the font clamping point finely stranded without core end processing • for main contacts for box terminal using the font clamping point finely stranded without core end processing •	Iting
mounting position  fastening method height width depth 100 mm height 100	ating
mounting position    suith vertical mounting   surface +/- 22.5" tiltable to the front and back   screw fixing   surface +/- 22.5" tiltable to the front and back   screw fixing   surface +/- 22.5" tiltable to the front and back   screw fixing   surface +/- 22.5" tiltable to the front and back   screw fixing   surface +/- 22.5" tiltable to the front and back   screw fixing   surface +/- 22.5" tiltable to the front and back   screw fixing   screw fixing	iting
fastening method height 230 mm width depth 282 mm required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for main contacts for box terminal using the front clamping point stranded • for main contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid	iting
Meight width   160 mm   282	
width     160 mm       depth     282 mm       required spacing with side-by-side mounting     282 mm       o forwards     10 mm       o backwards     0 mm       o upwards     100 mm       o downwards     5 mm       e at the side     5 mm       weight without packaging     7.3 kg       Connections/ Terminals       type of electrical connection     6 for control circuit       o for control circuit     screw-type terminals       width of connection bar maximum     35 mm, with connection cover 3RT1966-4EA1 maximum length 48       wire length for thermistor connection     50 m       o with conductor cross-section = 0.5 mm² maximum     50 m       with conductor cross-section = 2.5 mm² maximum     250 m       type of connectable conductor cross-sections     95 300 mm²       ofor main contacts for box terminal using the front clamping point finely stranded with core end processing     95 300 mm²       of or main contacts for box terminal using the front clamping point finely stranded     70 240 mm²       of or main contacts for box terminal using the front clamping point finely stranded     3/0 600 kcmil       of or main contacts for box terminal using the back clamping point solid     3/0 600 kcmil	
depth   required spacing with side-by-side mounting   forwards   10 mm   0 mm	
required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side  weight without packaging  Connections/ Terminals  type of electrical connection • for main current circuit • for control circuit  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 = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 9.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with co	
• forwards • backwards • upwards • downwards • downwards • at the side • at the side • for main contacts for box terminal using the front clamping point firsh gards and an arm of the front clamping point stranded • at AWG cables for main contacts for box terminal using the front clamping point stranded • for main contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using the back clamping point solid	
backwards     upwards     downwards     at the side     at the side     smm      weight without packaging  Connections/ Terminals  type of electrical connection     for main contacts for box terminal using the front clamping point finally stranded     of romain contacts for box terminal using the front clamping point stranded     of the side     upwards     of mm     100 mm     75 mm     5 mm     vide     busbar connection     busbar connection     busbar connection     busbar connection     screw-type terminals     uswith connection bar maximum     with conductor cross-section = 0.5 mm² maximum     of ro main contacts for box terminal using the front clamping point solid     of romain contacts for box terminal using the front clamping point finely stranded without core end processing     of romain contacts for box terminal using the front clamping point stranded     at AWG cables for main contacts for box terminal using the back clamping point solid   O mm  100 mm  75 mm  5 mm  6 busbar connection  5 crw-type terminals  5 busbar connection  5 crw-type terminals  5 busbar connection  5 crw-type terminals  5 mm; with connection cover 3RT1966-4EA1 maximum length 4:  7 0 m  150	
upwards     downwards     downwards     at the side     weight without packaging     7.3 kg  Connections/ Terminals  type of electrical connection     for main current circuit     width of connection bar maximum     wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 95 300 mm²  type of connectable conductor cross-sections     for main contacts for box terminal using the front clamping point finely stranded with core end processing     for main contacts for box terminal using the front clamping point stranded     at AWG cables for main contacts for box terminal using the front clamping point stranded     at AWG cables for main contacts for box terminal using the front clamping point stranded     at AWG cables for main contacts for box terminal using the front clamping point stranded     at AWG cables for main contacts for box terminal using the back clamping point solid  100 mm  5 mm  5 mm  5 mm  50 m  150 m  150 m  95 300 mm²  170 240 mm²  70 240 mm²  70 240 mm²  70 240 mm²  70 240 mm²  170 240 mm²	
o at the side     o at the side     o at the side     ornections/ Terminals  type of electrical connection     o for main current circuit     o with conductor cross-section = 0.5 mm² maximum     o with conductor cross-section = 1.5 mm² maximum     o with conductor cross-section = 1.5 mm² maximum     o with conductor cross-section = 2.5 mm² maximum     o for main contacts for box terminal using the front clamping point solid     o for main contacts for box terminal using the front clamping point finely stranded without core end processing     o for main contacts for box terminal using the front clamping point stranded     o at AWG cables for main contacts for box terminal using the front clamping point stranded     o at AWG cables for main contacts for box terminal using the front clamping point stranded     o at AWG cables for main contacts for box terminal using the back clamping point solid   To main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded  Or main contacts for box terminal using the front clamping point stranded	
at the side     weight without packaging     7.3 kg  Connections/ Terminals  type of electrical connection     • for main contacts for box terminal using the front clamping point stranded     • at AWG cables for main contacts for box terminal using the front clamping point stranded     • for main contacts for box terminal using the front clamping point stranded     • at AWG cables for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the front clamping point stranded     • at AWG cables for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid     • for main contacts for box terminal using the back clamping point solid	
weight without packaging  Connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  width of connection bar maximum  • 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  • with conductor cross-sections  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the back clamping point solid  • for main contacts for box terminal using the back clamping point solid  70 240 mm²  120 240 mm²	
type of electrical connection  • for main current circuit  • for control circuit  • with of connection bar maximum  • 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-sections  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the back clamping point solid   busbar connection  screw-type terminals  35 mm; with connection cover 3RT1966-4EA1 maximum length 48  50 m  5	
type of electrical connection	
• for main current circuit     • for control circuit     • for control circuit      • for control circuit      • for contection bar maximum      • with conductor cross-section     • 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     • with conductor cross-section = 2.5 mm² maximum     • with conductor cross-sections     • for main contacts for box terminal using the front clamping point finely stranded with core end processing     • for main contacts for box terminal using the front clamping point finely stranded without core end processing     • for main contacts for box terminal using the front clamping point stranded     • at AWG cables for main contacts for box terminal using the back clamping point solid   busbar connection     screw-type terminals  35 mm; with connection cover 3RT1966-4EA1 maximum length 48  50 m  50 m  550 m  750 m  150 m  250 m  770 240 mm²  70 240 mm²  70 240 mm²  70 240 mm²  150 m  250 m  250 m  250 m  250 m  260 m  270 240 mm²	
width of connection bar maximum  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  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  for main contacts for box terminal using the front clamping point finely stranded with core end processing  for main contacts for box terminal using the front clamping point finely stranded without core end processing  for main contacts for box terminal using the front clamping point stranded  at AWG cables for main contacts for box terminal using the front clamping point  for main contacts for box terminal using the back clamping point solid  screw-type terminals  35 mm; with connection cover 3RT1966-4EA1 maximum length 49  50 m  150 m  250 m  75 300 mm²  70 240 mm²  70 240 mm²  3/0 600 kcmil  120 240 mm²  120 240 mm²	
width of connection bar maximum  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 = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections  for main contacts for box terminal using the front clamping point finely stranded with core end processing  for main contacts for box terminal using the front clamping point finely stranded without core end processing  for main contacts for box terminal using the front clamping point finely stranded  at AWG cables for main contacts for box terminal using the front clamping point  for main contacts for box terminal using the back clamping point solid  35 mm; with connection cover 3RT1966-4EA1 maximum length 48  50 m  50 m  50 m  50 m  70 240 mm²  70 240 mm²  70 240 mm²  70 240 mm²  370 600 kcmil  370 600 kcmil  120 240 mm²	
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  • 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  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the back clamping point solid  120 240 mm²  120 240 mm²	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using the back clamping point solid</li> <li>120 240 mm²</li> </ul>	5 mm
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>150 m</li> <li>250 m</li> <li>95 300 mm²</li> <li>70 240 mm²</li> <li>70 240 mm²</li> <li>370 600 kcmil</li> <li>120 240 mm²</li> </ul>	
with conductor cross-section = 2.5 mm² maximum  type of connectable conductor cross-sections	
type of connectable conductor cross-sections  • for main contacts for box terminal using the front clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the back clamping point solid  • for main contacts for box terminal using the back clamping point solid  95 300 mm²  70 240 mm²  95 300 mm²  3/0 600 kcmil	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> <li>for main contacts for box terminal using the front clamping point stranded</li> <li>at AWG cables for main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using the back clamping point solid</li> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	
clamping point solid  • for main contacts for box terminal using the front clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point  • for main contacts for box terminal using the back clamping point solid  70 240 mm²  70 240 mm²  70 240 mm²  70 240 mm²  120 240 mm²  120 240 mm²	
clamping point finely stranded with core end processing  • for main contacts for box terminal using the front clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point  • for main contacts for box terminal using the back clamping point solid  70 240 mm²  95 300 mm²  3/0 600 kcmil  120 240 mm²	
clamping point finely stranded without core end processing  • for main contacts for box terminal using the front clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point  • for main contacts for box terminal using the back clamping point solid  95 300 mm²  3/0 600 kcmil  120 240 mm²	
clamping point stranded  • at AWG cables for main contacts for box terminal using the front clamping point  • for main contacts for box terminal using the back clamping point solid  3/0 600 kcmil  120 240 mm²	
using the front clamping point  • for main contacts for box terminal using the back clamping point solid  120 240 mm²	
clamping point solid	
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	
• 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> <li>min. 2x 50 mm², max. 2x 185 mm²</li> </ul>	
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> <li>min. 2x 50 mm², max. 2x 185 mm²</li> </ul>	
• for main contacts for box terminal using both clamping points stranded 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> <li>120 185 mm²</li> </ul>	
• for main contacts for box terminal using the back clamping point finely stranded without core end processing	
• 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	
type of connectable conductor cross-sections	

for control circuit solid	1x (0.5 4.0 mm²) 2.5 mm²) 1x (0.5 2.5 mm² 0.5 1.5 m n) 1x (20 12), 2x (20
for control circuit finely stranded with core end	1x (0.5 2.5 mm² (0.5 1.5 m n )
processing  • at AWG cables for control circuit solid	1v (20 12) 2v (20
wire length	1x (20 12), 2x (20 .
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	1 000 m
tightening torque	1 000 III
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]	
<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	5 000 mg danating an of 4000 mg and Manual
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
ambient temperature	-25 +60 °C: Please observe denoting at temporatures of 40 °C or
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
during storage according to IEC 60721	mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	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
Communication/ Protocol	acc. to 1EC 00947-4-2. Class A
communication module is supported  • PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class L, max. 1000 A; Iq = 18 kA
— usable for High Faults up to 575/600 V     according to UL	Type: Class L, max. 1000 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	75 hp
• at 220/230 V at 50 °C rated value	100 hp
• at 460/480 V at 50 °C rated value	200 hp
• at 575/600 V at 50 °C rated value	250 hp
Safety related data	
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
ATEX	
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09

PFHD with high demand rate according to EN 62061 relating to ATEX

Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

9E-6 1/h

SIL1

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 Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5074-6TB15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5074-6TB15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6TB15

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5074-6TB15\&lang=enderse$ 

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6TB15/char

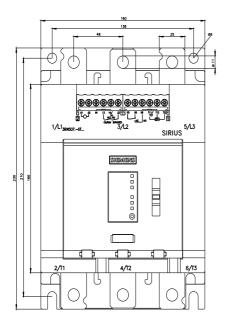
Characteristic: Installation altitude

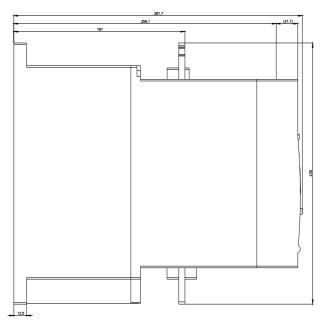
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5074-6TB15&objecttype=14&gridview=view1

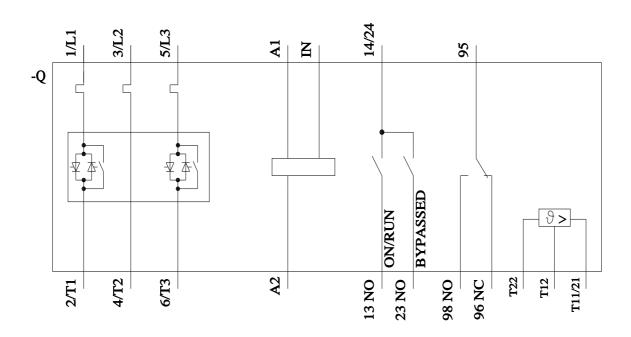
Simulation Tool for Soft Starters (STS)

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









Hotline: 0909000786 - lam@dientudong.com



last modified:

