## SIEMENS

## Data sheet

## 3RW5072-6AB14



SIRIUS soft starter 200-480 V 210 A, 110-250 V AC Screw terminals Analog output

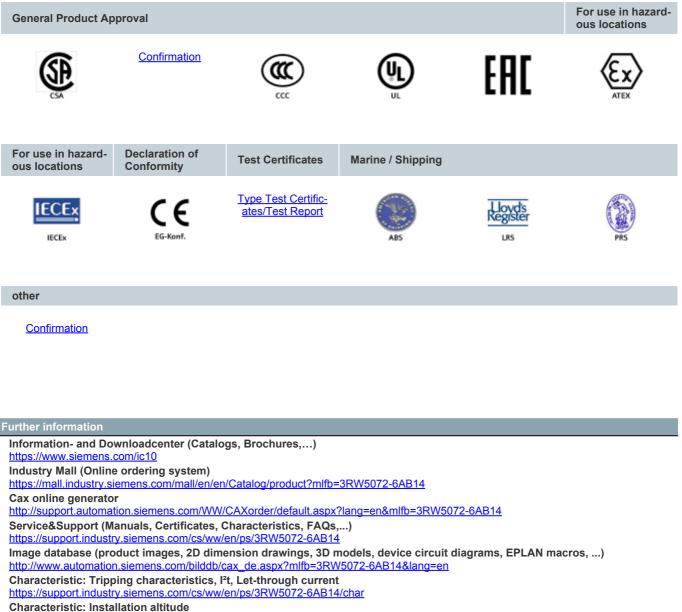
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS01</u>
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</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>	<u>3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA</u>
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA</u>
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; 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 230-2; 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 333; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1064</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1064</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 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
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
product function	03/23/2013
• 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; Electronic motor overload protection
evaluation of thermistor motor protection	No
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 parameterizable     via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
• P Konenergy	module
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
• at 40 °C rated value	210 A
• at 50 °C rated value	186 A
at 60 °C rated value	170 A
operating voltage	200 400 \/
rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
<ul> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> </ul>	55 kW
<ul> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> </ul>	55 KW 110 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 1 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
at rotary coding switch on switch position 1	90 A
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	98 A
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	106 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> </ul>	114 A
- activity sound onton on omion position +	

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	
	122 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	130 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	138 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	146 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	154 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	162 A
at rotary coding switch on switch position 10     at rotary coding switch on switch position 11	170 A
	178 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	
at rotary coding switch on switch position 13	186 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	194 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	202 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	210 A
• minimum	90 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	16 W
• at 50 °C after startup	13 W
• at 60 °C after startup	11 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 237 W
• at 50 °C during startup	1 867 W
• at 60 °C during startup	1 637 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 0501/
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive telerance of the control cupply	10 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	
	-15 %
voltage at AC at 50 Hz relative negative tolerance of the control supply	-15 % 10 %
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 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	10 %
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 control supply voltage frequency	10 % 50 60 Hz
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         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         relative positive tolerance of the control supply voltage frequency	10 % 50 60 Hz
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         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	10 % 50 60 Hz -10 %
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         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         relative positive tolerance of the control supply voltage frequency	10 % 50 60 Hz -10 % 10 %
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         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 current in standby mode rated value	10 % 50 60 Hz -10 % 10 % 30 mA
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         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 current in standby mode rated value         holding current in bypass operation rated value         locked-rotor current at close of bypass contact	10 % 50 60 Hz -10 % 10 % 30 mA 105 mA
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         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 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	10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A
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         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 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	10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A
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 control supply voltage frequency 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	10 % 50 60 Hz -10 % 10 % 30 mA 105 mA 2.2 A 12.2 A 2.2 ms
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         2.2 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
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         2.2 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
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         2.2 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 scope of supply         1
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         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         3
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         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         3         2
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         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 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	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         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         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)
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         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 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 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         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         3         2
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         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 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         switching capacity current of the relay outputs	10 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         2.2 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 scope of supply         1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         1
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         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 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 %         50 60 Hz         -10 %         10 %         30 mA         105 mA         2.2 A         12.2 A         2.2 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 scope of supply         1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)

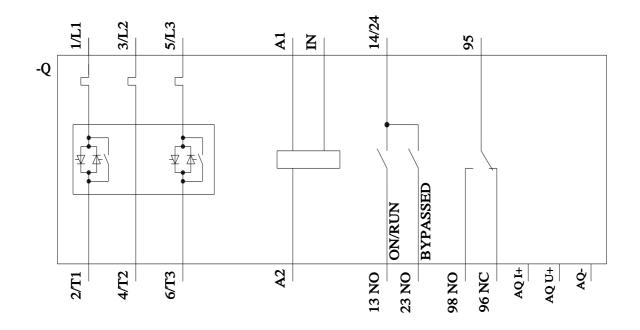
nstallation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	230 mm
width	160 mm
depth	282 mm
required spacing with side-by-side mounting	
<ul> <li>forwards</li> </ul>	10 mm
<ul> <li>backwards</li> </ul>	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	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm
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
• at AWG cables for main contacts for box terminal using the back clamping point	250 500 kcmil
• for main contacts for box terminal using both clamping points solid	min. 2x 70 mm², max. 2x 240 mm²
<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
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	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
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	70 240 mm²
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)
<ul><li>wire length</li><li>between soft starter and motor maximum</li></ul>	800 m

<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
<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	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	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
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of circuit breaker	
— usable for High Faults at 460/480 V according to UL	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
of the fuse	
— usable for Standard Faults up to 575/600 V according to UL	Type: Class L, max. 700 A; lq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 700 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
• at 220/230 V at 50 °C rated value	60 hp
• at 460/480 V at 50 °C rated value	150 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	9E-6 1/h
Safety Integrity Level (SIL) according to IEC 61508	SIL1
relating to ATEX	
relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX Certificates/ approvals	3 у



http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-6AB14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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



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