## SIEMENS

## Data sheet

## 3RW5076-6AB14



SIRIUS soft starter 200-480 V 470 A, 110-250 V AC Screw terminals Analog output

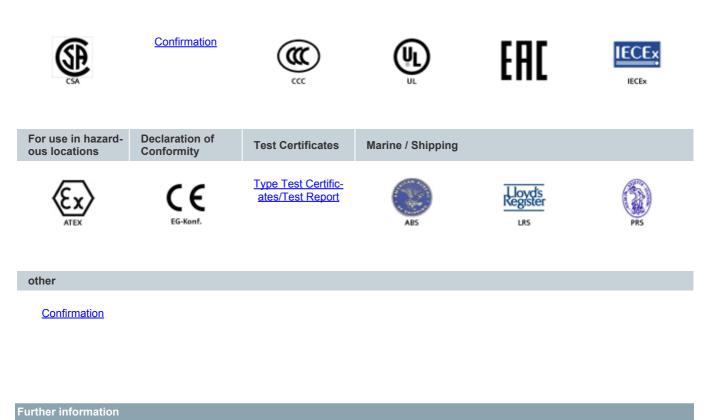
product brand name	SIRIUS	
product category	Hybrid switching devices	
product designation	Soft starter	
product type designation	3RW50	
manufacturer's article number		
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS01</u>	
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</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>3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA</u>	
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA	
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA	
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1 436-2; Type of coordination 2, Iq = 65 kA</u>	
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3 340-8; Type of coordination 2, Iq = 65 kA</u>	
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1076</u>	
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1076</u>	
General technical data		
starting voltage [%]	30 100 %	
stopping voltage [%]	50 %; non-adjustable	
start-up ramp time of soft starter	0 20 s	
ramp-down time of soft starter	0 20 s	
current limiting value [%] adjustable	130 700 %	
accuracy class according to IEC 61557-12	5 %	
certificate of suitability		
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 100 ms		
	600 V		
insulation voltage rated value			
degree of pollution	3, acc. to IEC 60947-4-2		
impulse voltage rated value	6 kV		
blocking voltage of the thyristor maximum	1 600 V		
service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
between main and auxiliary circuit	600 V		
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz		
utilization category according to IEC 60947-4-2	AC-53a		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	09/23/2019		
product function			
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes		
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes		
Soft Torque	Yes		
<ul> <li>adjustable current limitation</li> </ul>	Yes		
• pump ramp down	Yes		
intrinsic device protection	Yes		
motor overload protection	Yes; Electronic motor overload protection		
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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 configurable	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication module		
<ul> <li>voltage ramp</li> </ul>	Yes		
torque control	No		
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)		
Power Electronics			
operational current			
<ul> <li>at 40 °C rated value</li> </ul>	470 A		
• at 50 °C rated value	416 A		
• at 60 °C rated value	380 A		
operating voltage			
rated value	200 480 V		
relative negative tolerance of the operating voltage	-15 %		
relative positive tolerance of the operating voltage	10 %		
operating power for 3-phase motors			
• at 230 V at 40 °C rated value	132 kW		
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	250 kW		
Operating frequency 1 rated value	50 Hz		
Operating frequency 2 rated value	60 Hz		
relative negative tolerance of the operating frequency	-10 %		
relative negative tolerance of the operating frequency	10 %		
adjustable motor current			
at rotary coding switch on switch position 1	200 A		
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	218 A		
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> </ul>	236 A		
• at rotary coding switch on switch position 4	254 A		

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	272 A		
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	290 A		
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	308 A		
at rotary coding switch on switch position 8	326 A		
<ul> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 9</li> </ul>	344 A		
at rotary coding switch on switch position 10	362 A		
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	380 A		
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	398 A		
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	416 A		
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	434 A		
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	452 A		
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	470 A		
• minimum	200 A		
minimum load [%]	15 %; Relative to smallest settable le		
power loss [W] for rated value of the current at AC			
• at 40 °C after startup	56 W		
• at 50 °C after startup	44 W		
• at 60 °C after startup	37 W		
•	57 W		
power loss [W] at AC at current limitation 350 %	E 244 M		
• at 40 °C during startup	5 344 W		
• at 50 °C during startup	4 438 W		
• at 60 °C during startup	3 876 W		
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• 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 tolerance of the control supply voltage at AC at 50 Hz	10 %		
	10 % -15 %		
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	-15 %		
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	-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 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	-15 % 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	-15 % 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	-15 % 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	-15 % 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 maximum         inrush current peak at application of control supply voltage maximum	-15 % 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	-15 % 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	-15 % 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         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	-15 % 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	-15 % 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		
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	-15 % 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		
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	-15 % 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		
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	-15 %         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		
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	-15 %         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		
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         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	-15 %         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)		
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	-15 %         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		
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	-15 %         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	-15 %         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</li> </ul>	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		
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>	<ul> <li>-25 +60 °C; Please observe derating at temperat above</li> </ul>	ures of 40 °C or
• during storage and transport	-40 +80 °C	
during storage and transport	-40 +60 C	
environmental category		
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation	
	mist), 3S2 (sand must not get into the devices), 3M	
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt m	ust), 1S2 (sand must
	not get inside the devices), 1M4	
during transport according 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		
PROFINET standard	Yes	
EtherNet/IP	Yes	
Modbus RTU	Yes	
Modbus TCP	Yes	
PROFIBUS		
	Yes	
UL/CSA ratings		
manufacturer's article number		
<ul> <li>of the fuse</li> </ul>		
<ul> <li>— usable for Standard Faults up to 575/600 V</li> </ul>	Type: Class L, max. 1600 A; Iq = 30 kA	
according to UL		
— usable for High Faults up to 575/600 V	Type: Class L, max. 1200 A; Iq = 100 kA	
according to UL		
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	150 hp	
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	150 hp	
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	350 hp	
Safety related data		
	IPO0: IP20 with cover	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with co	Ver
ATEX	inger-sale, for ventical contact from the front with co	5VC1
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 relating to ATEX	SIL1	
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 у	
Certificates/ approvals		
		For use in h
General Product Approval		For use in hazard- ous locations



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=3RW5076-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB14

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5076-6AB14&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6AB14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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

last modified:

4/11/2022 🖸